Open Source Used In Connected-Pharma 1.5 - Platform, Connectors and Infra

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   1.1503.1 Available under license
1.1504 swagger 2.1.1
   1.1504.1 Available under license
1.1505 hiredis 0.14.1
   1.1505.1 Available under license
1.1506 mime-support 3.60ubuntu1
   1.1506.1 Available under license
1.1507 libdrm 2.4.97-2.el7
   1.1507.1 Available under license
1.1508 inf 0.9.1
   1.1508.1 Available under license
1.1509 go-toml 1.2.0
   1.1509.1 Available under license
1.1510 libgcrypt 1.7.3
   1.1510.1 Available under license
1.1511 threetenbp 1.3.6
1.1512 juju-ratelimit 1.0
   1.1512.1 Available under license
1.1513 musl 1.1.24-r8
   1.1513.1 Available under license
1.1514 linux-kernel 3.10.0
   1.1514.1 Available under license
1.1515 cpio 2.11 27.el7
   1.1515.1 Available under license
1.1516 errors 0.8.1
   1.1516.1 Available under license
1.1517 go-colorable 0.0.9
   1.1517.1 Available under license
1.1518 debconf 1.5.61
   1.1518.1 Available under license
1.1519 elfutils 0.176 4.el7
   1.1519.1 Available under license
1.1520 scala 2.12.10
   1.1520.1 Available under license
1.1521 arpack 3.7.0-2
1.1521.1 Available under license

1.1522 libnetfilter-cttimeout 1.0.0
1.1522.1 Available under license

1.1523 junit 4.13
1.1523.1 Available under license

1.1524 pflag 1.0.5
1.1524.1 Available under license

1.1525 mitchellh-copystructure 1.0.0
1.1525.1 Available under license

1.1526 squirrel 1.4.0
1.1526.1 Available under license

1.1527 libxml 2.9.1 6.el7.4
1.1527.1 Available under license

1.1 jackson-coreutils 1.6

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replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
1.2 gophercloud 0.9.0

1.2.1 Available under license:

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

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

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

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {

query, err := opts.ToResourceListQuery()
if err != nil {
    return pagination.Pager{Err: err}
}
url += query

    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
})

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](/github/CONTRIBUTING.md) guide again as a refresh. Notably
the [Getting Started](/github/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples
of similar implementations. It would be a _very_ rare occurrence for you
to be implementing something that hasn't already been done.
Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.
### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code
There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
$ git checkout master
```

$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed
document which describes the different ways you can contribute to Gophercloud
and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:
1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

### Request a Code Review

---------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a
core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We’re more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

Step 4: Acceptance Testing
==========================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have
only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't
want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The “core” of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect all of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call
If you’ve found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You’ll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

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

import {
"fmt"
"net/http"
"testing"

"github.com/gophercloud/gophercloud/openstack/service/vN/resources"
th "github.com/gophercloud/gophercloud/testhelper"
"github.com/gophercloud/gophercloud/testhelper/client"
}

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }
// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
})
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
return client.ServiceURL("resource", id)
}

package RESOURCE

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

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next     string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be
able to prove your code correctly works with the OpenStack service in
question.

Let's use the following issue as an example:
In this issue, there's a request being made to add support for
`availability_zone_hints` to the `networking/v2/networks` package.
Meaning, we want to change:

```go
    type Network struct {
        ID   string `json:"id"
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

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

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

/*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE
Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
Step 7: Congratulations!
================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

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Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).

```go
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        return true, nil
    })

    actual, err := resources.ExtractResources(page)
    th.AssertNoErr(t, err)
}```
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

return true, nil
}
th.AssertNoErr(t, err)

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
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1.11 jackson 2.9.9

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

This is Debian GNU's prepackaged version of GnuPG, a free PGP replacement.

This package was put together by me, James Troup <james@nocrew.org>, from the sources, which I obtained from ftp://ftp.gnupg.org/pub/gcrypt/gnupg/gnupg-1.0.5.tar.gz. The changes were minimal, namely:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.

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1.14 ncw-swift 1.0.47

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1.15 gzip 1.6 5ubuntu1

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Theodore Ts'o
23-June-2007

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That's all there is to it!
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
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#
# # BSDLIB_VERSION = 1.0
# # BSDLIB_IMAGE = libce
# # BSDLIB_MYDIR = et
# # BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fPIC

image::$(BSD_LIB)
1.17 netbase 5.6
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Public License instead of this License. But first, please read

#!/bin/zsh

# Script to be run at the root of a CGAL branch.
# It scans the license of the files in */include, and write the files
# */package_info/*/license.txt

setopt extendedglob

for p in ^*build*(/); do
  if [-d $p/include ]; then
    licFile=$p/package_info/$p/license.txt
    l=`licensecheck -r $p/include $p/src | awk -F': ' '{print $2}' | grep -v BSL | sed -e 's/ *GENERATED FILE//' | sort -u`
    if [ "x`echo $l | wc -l" = "x1" ]; then
echo $l > "$licFile"
    elif [ "z" "echo $l | grep '^L?GPL \(v3 or later\) *$' ]; then
echo `GPL (v3 or later)` > "$licFile"
  else
#    echo "MULTIPLE!" > "$licFile"
    echo "$licFile"
  fi
  fi
done
To generate the `PACKAGE.h` files, from the file `package_list.txt`:

```
cmake -P generate_files.cmake
```

Utrecht University (The Netherlands).
Max-Planck-Institute Saarbruecken (Germany).
INRIA Sophia-Antipolis (France)  // for the Convex_hull_3/dual subdirectory
Braunschweig University (Germany).
The following file has been copied from Qt Free Edition version 4.4:
```
fileOpen.png
```

Fernando Luis Cacciola Carballal
INRIA Sophia-Antipolis (France)
GeometryFactory (France)
INRIA Sophia-Antipolis (France),
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Version 3, 29 June 2007

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Matrix_search
Approximate_min_ellipsoid_d
Min_ellipse_2
Min_circle_2
Min_sphere_d
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AABB_tree I
Algebraic_foundations ETIMU
Algebraic_kernel_d IM
Algebraic_kernel_for_circles I
Algebraic_kernel_for_spheres I
Alpha_shapes_2 I
Alpha_shapes_3 I
Apollonius_graph_2 I
Approximate_min_ellipsoid_d E
Arithmetic_kernel M
Arrangement_on_surface_2 T
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Authors
=======

Pierre Alliez
Matthias Bsken
Eric Berberich
Olivier Billet
Jean-Daniel Boissonnat
Carine Bonetto
Mario Botsch
Herv Brnnimann
Fernando Cacciola
Manuel Caroli
Nicolas Carrez
Frédric Cazals
Raphalle Chaine
Tran Kai Frank Da
Christophe Delage
Olivier Devillers
Katrin Dobrindt
Arno Eigenwillig
Oren Nechushtan
Gabriele Neyer
Ralf Osbild
Steve Oudot
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
AABB_tree 3D Fast Intersection and Distance Computation
Advancing_front_surface_reconstruction Advancing Front Surface Reconstruction
Alpha_shapes_2 2D Alpha Shapes
Alpha_shapes_3 3D Alpha Shapes
Apollonius_graph_2 2D Apollonius Graphs (Delaunay Graphs of Disks)
Arrangement_on_surface_2 2D Arrangements
Barycentric_coordinates_2 2D Generalized Barycentric Coordinates
Boolean_set_operations_2 2D Regularized Boolean Set-Operations
Bounding_volumes Bounding Volumes
Box_intersection_d Intersecting Sequences of dD Iso-oriented Boxes
Circular_kernel_2 2D Circular Geometry Kernel
Circular_kernel_3 3D Spherical Geometry Kernel
Classification Classification
Cone_spanners_2 Cone-Based Spanners
Convex_decomposition_3 Convex Decomposition of Polyhedra
Convex_hull_2 2D Convex Hulls and Extreme Points
Convex_hull_3 3D Convex Hulls
Convex_hull_d dD Convex Hulls and Delaunay Triangulations
Envelope_2 2D Envelopes
Envelope_3 3D Envelopes
GraphicsView CGAL and the Qt Graphics View Framework
Inscribed_areas Inscribed Areas
Interpolation 2D and Surface Function Interpolation
Interval_skip_list Interval Skip List
Jet_fitting_3 Estimation of Local Differential Properties of Point-Sampled Surfaces
Matrix_search Monotone and Sorted Matrix Search
Mesh_2 2D Conforming Triangulations and Meshes
Mesh_3 3D Mesh Generation
Minkowski_sum_2 2D Minkowski Sums
Minkowski_sum_3 3D Minkowski Sum of Polyhedra
Nef_2 2D Boolean Operations on Nef Polygons
Nef_3 3D Boolean Operations on Nef Polyhedra
Nef_S2 2D Boolean Operations on Nef Polygons Embedded on the Sphere
Optimal_transportation_reconstruction_2 Optimal Transportation Curve Reconstruction
Partition_2 2D Polygon Partitioning
Periodic_2_triangulation_2 2D Periodic Triangulations
Periodic_3_mesh_3 3D Periodic Mesh Generation
Periodic_3_triangulation_3 3D Periodic Triangulations
Point_set_2 2D Range and Neighbor Search
Point_set_3 3D Point Set
Point_set_processing_3 Point Set Processing
Point_set_shape_detection_3 Point Set Shape Detection
Poisson_surface_reconstruction_3 Poisson Surface Reconstruction
Polygon_mesh_processing Polygon Mesh Processing
Polygon_mesh_processing/Compute_normal Polygon Mesh Processing - Normal Computation
Polygon_mesh_processing/connected_components Polygon Mesh Processing - Connected Components
Polygon_mesh_processing/corefinement Polygon Mesh Processing - Corefinement
Polygon_mesh_processing/distance Polygon Mesh Processing - Distance
Polygon_mesh_processing/measure Polygon Mesh Processing - Geometric Measure
Polygon_mesh_processing/meshing_hole_filling Polygon Mesh Processing - Meshing and Hole Filling
Polygon_mesh_processing/orientation Polygon Mesh Processing - Orientation
Polygon_mesh_processing/predicate Polygon Mesh Processing - Predicate
Polygon_mesh_processing/repair Polygon Mesh Processing - Repair
Polygon_mesh_processing/miscellaneous Polygon Mesh Processing - Miscellaneous
Polygon_mesh_processing/detect_features Polygon Mesh Processing - Feature Detection
Polyhedron 3D Polyhedral Surface
Polyline_simplification_2 2D Polyline Simplification
Polytope_distance_d Optimal Distances
Principal_component_analysis Principal Component Analysis
QP_solver Linear and Quadratic Programming Solver
Ridges_3 Approximation of Ridges and Umbilics on Triangulated Surface Meshes
Scale_space_reconstruction_3 Scale-Space Surface Reconstruction
SearchStructures dD Range and Segment Trees
Segment_Delaunay_graph_2 2D Segment Delaunay Graphs
Segment_Delaunay_graph_Linf_2 L Infinity Segment Delaunay Graphs
Set_movable_separability_2 2D Movable Separability of Sets
Skin_surface_3 3D Skin Surface Meshing
Snap_rounding_2 2D Snap Rounding
Spatial_searching_dD Spatial Searching
Straight_skeleton_2 2D Straight Skeleton and Polygon Offsetting
Stream_lines_2 2D Placement of Streamlines
Surface_mesh_deformation Triangulated Surface Mesh Deformation
Surface_mesher 3D Surface Mesh Generation
Surface_mesh Surface Mesh
Surface_mesh_parameterization Triangulated Surface Mesh Parameterization
Surface_mesh_segmentation Triangulated Surface Mesh Segmentation
Surface_mesh_shortest_path Triangulated Surface Mesh Shortest Paths
Surface_mesh_simplification Triangulated Surface Mesh Simplification
Surface_mesh_skeletonization Triangulated Surface Mesh Skeletonization
Surface_sweep_2 2D Intersection of Curves
TDS_2 2D Triangulation Data Structure
TDS_3 3D Triangulation Data Structure
Three Three
Triangulation_2 2D Triangulation
Triangulation_3 3D Triangulations
Triangulation dD Triangulations
Visibility_2 2D Visibility Computation
Voronoi_diagram_2 2D Voronoi Diagram Adaptor
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*
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* 10 October 1997
*
* Last update 2009-03-11.
*/

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*
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* /opt/ws_local/PERMITS_SQL/1013530626_1594196196.39/0/freetype-2-9-1-orig-ft2demos-tar-gz/ft2demos-2.9.1/mac/getargv.c
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/**********************************************************************************

*  grx11.c  graphics driver for X11.
*
*  This is the driver for displaying inside a window under X11,
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/*  Author:  David Turner  <david@freetype.org>
*
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*  This is a cheap replacement for getopt() because that routine is not
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*  mleisher@crl.nmsu.edu (Mark Leisher)
* 10 October 1997
*/

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 *
* This is the driver for displaying inside a window under MacOS,
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 *
* Largely written by Just van Rossum, but derived from grwin32.c.
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/***************************************************************************/
 *
 * grbeos.c  graphics driver for BeOS platform  0.1
 *
 * This is the driver for displaying inside a window under BeOS,
 * used by the graphics utility of the FreeType test suite.
 *
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**1.22 python-dateutil 2.7.3-1.ph3**

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1.25 unixodbc 2.3.6-0.1

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

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

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

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

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

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

The "Library", below, refers to any such software library or work
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portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
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"Source code" for a work means the preferred form of the work for
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all the source code for all modules it contains, plus any associated
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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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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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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
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In addition, mere aggregation of another work not 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.

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

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

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

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

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

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

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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1.29 make 3.82 24.el7
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
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
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
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
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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

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Version 3, 29 June 2007

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For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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1.30 accessors-smart 1.2

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* /opt/ws_local/PERMITS_SQL/1014221123_1594215658.24/0/zkclient-0-11-sources-
  jar/org/I0Itec/zkclient/ZkClient.java
* /opt/ws_local/PERMITS_SQL/1014221123_1594215658.24/0/zkclient-0-11-sources-
  jar/org/I0Itec/zkclient/ExceptionUtil.java
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  jar/org/I0Itec/zkclient/DistributedQueue.java
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  jar/org/I0Itec/zkclient/ImMemoryConnection.java
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* /opt/ws_local/PERMITS_SQL/1014221123_1594215658.24/0/zkclient-0-11-sources.jar/org/I0Itec/zkclient/Holder.java
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* /opt/ws_local/PERMITS_SQL/1014221123_1594215658.24/0/zkclient-0-11-sources.jar/org/I0Itec/zkclient/ZkLock.java
* /opt/ws_local/PERMITS_SQL/1014221123_1594215658.24/0/zkclient-0-11-sources.jar/org/I0Itec/zkclient/exception/ZkException.java

1.32 hamcrest 1.3

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1.36 icu 60.2-3ubuntu3.1

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```
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## Commands to generate dependency files
```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%:o: $(srcdir)/%.c
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%:o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(@$(SHELL)) -ec "$(GEN_DEPS.c) $< | sed "s/\($*\)\.o[ :]*/\1.o $@ : /g" > $@; \|
| rm -f $@"
%:d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's/\([^$\%]+\)\.o\[ :\]*/\1.o $@ : /g' > $@; \\
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.37 govalidator 10
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.43 pygobject 3.22.0 1.el7_4.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_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_gluet.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_usertc.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.47 x-text 0.3.2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
---

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

---

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.59 libffi 3.2.1 9

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

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

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1.63 coreutils 8.22 24.el7

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */ 

#include <config.h> 
#include <stdio.h> 
#include <sys/types.h> 
#include <pwd.h> 
#include <grp.h> 

#include "system.h" 
#include "chown-core.h" 
#include "error.h" 
#include "ignore-value.h" 
#include "quote.h" 
#include "root-dev-ino.h" 
#include "xfts.h"
#define FTSENT_IS_DIRECTORY(E)
    ((E)->fts_info == FTS_D || (E)->fts_info == FTS_DC || (E)->fts_info == FTS_DP || (E)->fts_info == FTS_DNR)

enum RCH_status
{
    /* we called fchown and close, and both succeeded */
    RC_ok = 2,

    /* required_uid and/or required_gid are specified, but don't match */
    RC_excluded,

    /* SAME_INODE check failed */
    RC_inode_changed,

    /* open/fchown isn't needed, isn't safe, or doesn't work due to
     * permissions problems; fall back on chown */
    RC_do_ordinary_chown,

    /* open, fstat, fchown, or close failed */
    RC_error
};

extern void
chopt_init (struct Chown_option *chopt)
{
    chopt->verbosity = V_off;
    chopt->root_dev_ino = NULL;
    chopt->affect_symlink_referent = true;
    chopt->recurse = false;
    chopt->force_silent = false;
    chopt->user_name = NULL;
    chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
    /* Deliberately do not free chopt->user_name or ->group_name.
     * They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
and return it. If there's no corresponding group name, use the decimal
representation of the ID */
extern char *

gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
        : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
        : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding user name, use the decimal
   representation of the ID. */

eextern char *

tuid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwuid (uid);
    return xstrdup (pwd ? pwd->pw_name
        : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
        : umaxtostr (uid, buf));
}

/* Allocate a string representing USER and GROUP. */

static char *

user_group_str (char const *user, char const *group)
{
    char *spec = NULL;

    if (user)
    {
        if (group)
        {
            spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
            stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
        }
        else
        {
            spec = xstrdup (user);
        }
    }
    else if (group)
    {
        spec = xstrdup (group);
    }
}
static void
describe_change (const char *file, enum Change_status changed,
    char const *old_user, char const *old_group,
    char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;

    if (changed == CH_NOT_APPLIED)
    {
        printf (_("neither symbolic link %s nor referent has been changed\n"),
               quote (file));
        return;
    }

    spec = user_group_str (user, group);
    old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

    switch (changed)
    {
        case CH_SUCCEEDED:
            fmt = (user ? _("changed ownership of %s from %s to %s\n")
                       : group ? _("changed group of %s from %s to %s\n")
                       : _("no change to ownership of %s\n"));
            break;

        case CH_FAILED:
            if (old_spec)
            {
                fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                           : group ? _("failed to change group of %s from %s to %s\n")
                           : _("failed to change ownership of %s\n"));
            } else
            {
                fmt = (user ? _("failed to change ownership of %s to %s\n")
                           : group ? _("failed to change group of %s to %s\n")
                           : _("failed to change ownership of %s\n"));
            }
            free (old_spec);
            old_spec = spec;
        break;
    }
}
spec = NULL;
}
break;

case CH_NO_CHANGE_REQUESTED:
    fmt = (user ? "ownership of %s retained as %s\n"
        : group ? "group of %s retained as %s\n"
        : "ownership of %s retained\n");
    break;
default:
    abort ();
}

printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
   only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
   of FILE.  ORIG_ST must be the result of `stat`ing FILE.

   The 'safely' part above means that we can't simply use chown(2),
   since FILE might be replaced with some other file between the time
   of the preceding stat/lstat and this chown call.  So here we open
   FILE and do everything else via the resulting file descriptor.
   We first call lstat and verify that the dev/inode match those from
   the preceding stat call, and only then, if appropriate (given the
   required_uid and required_gid constraints) do we call fchown.

   Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
   special file that might have undesirable side effects when opening.
   In this case the caller can use the less-safe ordinary chown.

   Return one of the RCH_status values.  */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
    struct stat const *orig_st,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
return RC_do_ordinary_chown;

if (! S_ISREG (orig_st->st_mode))
{
    if (S_ISDIR (orig_st->st_mode))
        open_flags |= O_DIRECTORY;
    else
        return RC_do_ordinary_chown;
}

fd = openat (cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd
     || (errno == EACCES && S_ISREG (orig_st->st_mode)
        && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags)))))
    return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

if (fstat (fd, &st) != 0)
    status = RC_error;
else if (! SAME_INODE (*orig_st, st))
    status = RC_inode_changed;
else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
    && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
{
    if (fchown (fd, uid, gid) == 0)
        {
            status = (close (fd) == 0
                ? RC_ok : RC_error);
            return status;
        }
    else
    {
        status = RC_error;
    }
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
   uid_t uid, gid_t gid,
   uid_t required_uid, gid_t required_gid,
   struct Chown_option const *chopt)
{
  char const *file_full_name = ent->fts_path;
  char const *file = ent->fts_accpath;
  struct stat const *file_stats;
  struct stat stat_buf;
  bool ok = true;
  bool do_chown;
  bool symlink_changed = true;

  switch (ent->fts_info)
  {
    case FTS_D:
      if (chopt->recurse)
      {
        if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
        {
          /* This happens e.g., with "chown -R --preserve-root 0 /"
           and with "chown -RH --preserve-root 0 symlink-to-root". */
          ROOT_DEV_INO_WARN (file_full_name);
          /* Tell fts not to traverse into this hierarchy. */
          fts_set (fts, ent, FTS_SKIP);
          /* Ensure that we do not process "/" on the second visit. */
          ignore_value (fts_read (fts));
          return false;
        }
        return true;
      }
      break;

    case FTS_DP:
      if (! chopt->recurse)
      {
        return true;
      }
      break;

    case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
       indicator is determined at the time of the initial fts_open call.
       With programs like chmod, chown, and chgrp, that modify
       permissions, it is possible that the file in question is
       accessible when control reaches this point. So, if this is
       the first time we've seen the FTS_NS for this file, tell
       fts_read to stat it "again". */
      if (ent->fts_level == 0 && ent->fts_number == 0)
      {

ent->fts_number = 1;
fts_set(fts, ent, FTS_AGAIN);
return true;
}
if (! chopt->force_silent)
    error(0, ent->fts_errno, _("cannot access %s"),
          quote(file_full_name));
ok = false;
break;

case FTS_ERR:
    if (! chopt->force_silent)
        error(0, ent->fts_errno, "%s", quote(file_full_name));
    ok = false;
    break;

case FTS_DNR:
    if (! chopt->force_silent)
        error(0, ent->fts_errno, _("cannot read directory %s"),
               quote(file_full_name));
    ok = false;
    break;

case FTS_DC:// directory that causes cycles */
    if (cycle_warning_required(fts, ent))
        {
            emit_cycle_warning(file_full_name);
            return false;
        }
    break;

default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t)-1 && required_gid == (gid_t)-1
    && chopt->verbosity == V_off
    && ! chopt->root_dev_ino
    && ! chopt->affect_symlink_referent)
    {
        do_chown = true;
        file_stats = ent->fts_statp;
    }
else
{
    file_stats = ent->fts_statp;

    /* If this is a symlink and we're dereferencing them,
       stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
    {
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
        {
            if (! chopt->force_silent)
                error (0, errno, _("cannot dereference %s"),
                       quote (file_full_name));
            ok = false;
        }

        file_stats = &stat_buf;
    }

    do_chown = (ok
        & (required_uid == (uid_t) -1
            || required_uid == file_stats->st_uid)
        & (required_gid == (gid_t) -1
            || required_gid == file_stats->st_gid));
}

/* This happens when chown -LR --preserve-root encounters a symlink-to-/.
   */
if (ok
    & FTSENT_IS_DIRECTORY (ent)
    & ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if (! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires
           this behavior for top-level symbolic links with -h, and
           implies that it's required for all symbolic links. */
        if (! ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
else
{
/* If possible, avoid a race condition with --from=O:G and without the
   (-h) --no-dereference option. If fts's stat call determined
   that the uid/gid of FILE matched the --from=O:G-selected
   owner and group IDs, blindly using chown(2) here could lead
   chown(1) or chgrp(1) mistakenly to dereference a *symlink*
   to an arbitrary file that an attacker had moved into the
   place of FILE during the window between the stat and
   chown(2) calls. If FILE is a regular file or a directory
   that can be opened, this race condition can be avoided safely. */

enum RCH_status err
= restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                    required_uid, required_gid);
switch (err)
{
  case RC_ok:
    break;

  case RC_do_ordinary_chown:
    ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
    break;

  case RC_error:
    ok = false;
    break;

  case RC_inode_changed:
    /* FIXME: give a diagnostic in this case? */
    case RC_excluded:
      do_chown = false;
      ok = false;
      break;

    default:
      abort ();
  }
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */
if (do_chown && !ok && ! chopt->force_silent)
  error (0, errno, (uid != (uid_t) -1
  ? _("changing ownership of %s")
  : _("changing group of %s")),
    quote (file_full_name));
}

if (chopt->verbosity != V_off)
{
  bool changed =
((do_chown && ok && symlink_changed)
  && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
    && (gid == (gid_t) -1 || gid == file_stats->st_gid));)

if (changed || chopt->verbosity == V_high)
{
  enum Change_status ch_status =
    (!ok ? CH_FAILED
     : !symlink_changed ? CH_NOT_APPLIED
     : !changed ? CH_NO_CHANGE_REQUESTED
     : CH_SUCCEEDED);
  char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
  char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
  describe_change (file_full_name, ch_status,
    old_usr, old_grp,
    chopt->user_name, chopt->group_name);
  free (old_usr);
  free (old_grp);
}
}

if ( ! chopt->recurse)
  fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
BIT_FLAGS specifies how to treat each symlink-to-directory
that is encountered during a recursive traversal.
CHOPT specifies additional options.
If UID is not -1, then change the owner id of each file to UID.
If GID is not -1, then change the group id of each file to GID.
If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
files with user ID and group ID that match the non-(1) value(s).
Return true if successful. */

extern bool
chown_files (char **files, int bit_flags,
uid_t uid, gid_t gid,
uid_t required_uid, gid_t required_gid,
struct Chown_option const *chopt)
{
bool ok = true;
/* Use lstat and stat only if they're needed. */
int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
|| chopt->affect_symlink_referent
|| chopt->verbosity != V_off)
?0
: FTS_NOSTAT);
FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);
while (1)
{
FTSENT *ent;
ent = fts_read (fts);
if (ent == NULL)
{
if (errno != 0)
{
/* FIXME: try to give a better message */
if (! chopt->force_silent)
error (0, errno, _("fts_read failed"));
ok = false;
}
break;
}
ok &= change_file_owner (fts, ent, uid, gid,
required_uid, required_gid, chopt);
}
if (fts_close (fts) != 0)
{
error (0, errno, _("fts_close failed"));
ok = false;
}
return ok;
}
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* matrix invert code derivate from GRASS project (< 4.0 version):
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Email domain: cam.ac.uk

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1.69 xz 5.2.5-r0

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1.73 yum-utils 1.1.31 53.el7

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  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/bootstrap/AbstractBootstrap.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/EventLoopGroup.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/CompleteChannelFuture.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelDuplexHandler.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelFutureListener.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelPromiseAggregator.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/FailedChannelFuture.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelHandlerContext.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/group/package-info.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelInitializer.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/socket/InternetProtocolFamily.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ FixedRecvByteBufAllocator.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/group/DefaultChannelGroupFuture.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/nio/AbstractNioByteChannel.java
  */opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/SucceededChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/socket/nio/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/socket/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/DefaultChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/group/CombinedIterator.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/bootstrap/Bootstrap.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1.jar/io/netty/channel/socket/nio/NioTask.java
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* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

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  jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
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*/

/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline}.  
* 
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li> { @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
*  
*/
Alternatively, the following adapter classes are provided for your convenience:

- \{@link ChannelInboundHandlerAdapter\} to handle inbound I/O events,
- \{@link ChannelOutboundHandlerAdapter\} to handle outbound I/O operations, and
- \{@link ChannelDuplexHandler\} to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

**The context object**

A \{@link ChannelHandler\} is provided with a \{@link ChannelHandlerContext\} object. A \{@link ChannelHandler\} is supposed to interact with the \{@link ChannelPipeline\} it belongs to via a context object. Using the context object, the \{@link ChannelHandler\} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using \{@link AttributeKey\}s) which is specific to the handler.

**State management**

A \{@link ChannelHandler\} often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends \{SimpleChannelInboundHandler\}&lt;Message\> {
    private boolean loggedIn;

    @Override
    public void channelRead0(\{ChannelHandlerContext\} ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Using `AttributeKey`s

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use `AttributeKey`s which is provided by

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {

    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
}
```

<h4>The {@code @Sharable} annotation</h4>

In the example above which used an {@link AttributeKey}, you might have noticed the {@code @Sharable} annotation.

If a {@link ChannelHandler} is annotated with the {@code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more {@link ChannelPipeline}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like [the JCIP annotations](http://www.javaconcurrencyinpractice.com/annotations/doc/).

Additional resources worth reading

Please refer to the {/@link ChannelHandler}, and {/@link ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

Found in path(s):

```
/opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/ChannelHandler.java
```
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  jar/io/netty/channel/ChannelHandlerMask.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ExtendedClosedChannelException.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/EventLoopTaskQueueFactory.java

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, gunzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.88 go-autorest 0.9.0

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<p>People</p>

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<li>Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
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Tomas Gustavsson &lt;tomaszg@primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.
Jason Novotny &lt;jdnovotny@lbl.gov&gt; - initial work on the openSSL PEM processing.

Joel Hockey &lt;joel.hockey@qsipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS@geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin@chapweske.com&gt; - ordering patch for Tiger message digest.

John Serock &lt;jserock@hotmai.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Compliance of KeyUsage extension return value with security API.

Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.

Andre Wehnert &lt;aw5@eduinf.dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono &lt;luigilo@nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach@certivo.net&gt; - SMIME v2 compatibility patches.

Marcus Povey &lt;mpovey@brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clauß &lt;sc2@inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza@alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall &lt;rsdio@metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes@eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor@dms.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier &lt;random@rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles &lt;graham.coles@064;certivo.net&gt; - patch to isParityAdjusted in DESKeySpec.

Johannes von Kattche &lt;J.Kattchee@064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;matartuso@064;libero.it&gt; - picking up the possible overread in ASN1InputSteam.

Julian Morrison &lt;julian@metastatic.org&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;eso@esomail.de&gt; - fix to long conversion in clean room SecureRandom.

Johannes Schwarze &lt;JSchwarze@064;ucr.de&gt; - Locale fix for the clean room JCE.

Bryan Lovquist &lt;blkl@064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.

Artem Portnay &lt;Artem_Portnoy@ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael Haukel &lt;haukel@064;esomail.de&gt; - missing OID update for SHA1 with RSA Signature.

Johan Seland &lt;johans@064;netfonds.no&gt; - general toString for BigInteger class.

Johannes Nicoli &lt;johannes.niccoli@064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva &lt;marc.doberva@064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak &lt;jan.dvorak@064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.

Joe Cohen &lt;jeohen@064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in...
 DERInputStream into what it should have been.

Chris Long &lt;aclong@ece.cmu.edu&gt; - adding public key decoding to PEMReader.

Hes Siemelink &lt;hes@#064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu &lt;stefanpuiuro@#064yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang &lt;kaiseryang@#064.yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@#064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@#064printx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak@#064transacttools.net&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus@#064cqed.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@#064ipl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime.

Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.

Ian Haywood &lt;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;j34gull@#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew@#064c rear cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@#064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmmm@#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes@#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralizedString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright@#064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim@#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler &lt;haeusler@#064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
Joseph Miller &lt;joseph&#064digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xxy&amp;#064agemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen&amp;#064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun&amp;#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem&amp;#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva&amp;#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGlnputStream.

Alpesh Parmar &lt;alps&amp;#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach&amp;#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug&amp;#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1&amp;#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.

Tom Cargill &lt;cargill&amp;#064profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;cBreitenstrom&amp;#064systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zanotti&amp;#064cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;nsendoni&amp;#064babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skytt&amp;auml; &lt;ville.skytta&amp;#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon &lt;bruce.gordon&amp;#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGlnputStream.

Miles Whiteley &lt;Miles.Whiteley&amp;#064savvis.net&gt; - "223" fix for BCPGlnputStream new packets.

Albert Moliner &lt;amoliner&amp;#064evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;carlos&amp;#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javiciamp;#064javii.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hakala &lt;joni.hakala&amp;#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href=&quot;http://www.eu-egee.org&quot;&gt;EGEE project&lt;/a&gt; for making the work available.

Rolf Schillinger &lt;rolf&amp;#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;sergey.Bahtin&amp;#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy&amp;#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamana &lt;ymmk&amp;#064jcracht.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;ttyrex&amp;#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer&amp;#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell&amp;#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow
BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

- Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.
- Julien Pasquier &lt;julienpasquier@free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo &lt;matartuso@libero.it&gt; - sequence patch to ASN1Dump.
- Andrew Paterson &lt;andrew.paterson@burnsecrets.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov &lt;vladimir.m.molotkov@intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adlocflo@web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev &lt;paulvas6@064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - fix to PKP parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee &lt;dmlee@crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee &lt;dmlee@crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
- Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi.Blancher@064keynect.is.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke &lt;Brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.
- Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
- David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.
- Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
- Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in...
Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixin incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;tolaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt;j.eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand&#064online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstrains. Additional support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold&#064mx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;m.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews&#0644dc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC,
and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;ajoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@064nmtm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g@064rtnr.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga Kaul&lt;olga.kaethler@064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;miike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;tpkopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdziu &lt;tjgwozdziu@064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEFs.</li>
<li>Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_Certificate_REQUEST.</li>
<li>Patrick Peck &lt;ppeck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay &lt;lemaymd@lemaymd.com&gt; - identified problem with EAX [#BIA-93].

Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].

Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra@ntilde:aga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@064positscience.com&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].

Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ruir@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@emir.bucalovic.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;toffe79@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bounceycastle@pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniquelIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x.509CertStoreSelector.

Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kiemeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.

Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@064soge.it&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.

Rolf Lindemann &lt;rolf.lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole@064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom@064atack.cz&gt; - added checking of Sender header to SignedMailValidator.

Michael &lt;enfau@064t-online.de&gt; - correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; - addition of constant time equals to avoid possible timing attacks.
Markus Kiläring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
| Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions. </li>
| Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
| Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
| Alex Birckett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
| Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
| Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
| Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.</li>
| Bob McGowan &lt;boab.mcgoo@064bitinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
| Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
| Marco Sandrini &lt;mmessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
| Alf Malf &lt;alfmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
| Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li>
| Giacomo Boccardo &lt;gboccardo@064unicaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
| Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
| Janusz Sikociski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
| Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
| Liane Velten &lt;liane.velten@064jhp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
| Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKKeyRing.</li>
| Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
| Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.</li>
| Tim Buktu &lt;tbukt@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
| Bernd &lt;brbernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
| Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
| Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
| Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
| Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
| Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
| Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
| Andy Neilson &lt;Andy.Neilson@064quest.com&gt; a further patches to deal with multiple providers and PEMReader.
Ted Shaw &lt;xiao.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificateRequests.

Eleriseth &lt;Eleriseth&#064WPECGLtYbVi8RI6Y7VzI2Lvd2EUVW99v3yNV3JWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny&#064the-b.org&gt; patch for issuersAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes&#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b&#064gahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc&#0646carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel&#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad&#064primekey.se&gt; patch for working round JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d&#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy&#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes&#064blueyonder.co.uk&gt; patches for supporting PGPPrivateKeyRing/PGPPrivateKey encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev&#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome&#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller&#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>

Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>

Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>

AxelVDB &lt;axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.</li>

Roberto Tyley &lt;&gt; further work on completing gradle build.</li>

Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>

Sid Steward &lt;sid.steward&#064pdf1labs.com&gt; code improvements to ASN1Boolean.</li>

Alex Klyubin &lt;klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>

Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>

Andreas Reiter &lt;andreas.reiter&#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>

Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>

Oliver Ehli &lt;ehli&#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>

Daniel Heldt &lt;Daniel.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests.</li>

Robert Bushman &lt;bounceycastle&#064riseup.net&gt; Clean up of DirectKeySignature example.</li>

Maurice Aarts &lt;aarts&#06464riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>

KB Sriram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>

Marco Schulze &lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>

Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>

Tobias Wich &lt;tosias.wich&#06464csec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>

Hauke Mehrtens &lt;hauke&#06464hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>

Daniel Zimmerman &lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>

Jens Kapitza &lt;jkapitza&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>

Johan Eklund &lt;johan&#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>

nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>

Axel von dem Bruch &lt;axel-vdb&#064riseup.net&gt; Contributions to BCrypt/OpenBSDCrypt, original version of Blake2Digest.</li>

Derek Atkins &lt;derek&#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>

Peter Jr Halicky &lt;peto&#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>

lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>

Thomas Belot &lt;thomas.belot+BC&#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.
Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schümmlmann &lt;https://github.com/dschuermann&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Michael &lt;https://github.com/MSKnete&gt;&amp;#064;web.de&amp;gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;https://github.com/tobias.wagner&amp;#064;design.de&amp;gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;https://github.com/sgiro&amp;#064;google.com&amp;gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen&amp;#064;bouncycastle&amp;#064;xtreme.nl&amp;gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oeording&amp;#064;robotron.de&amp;gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer&amp;#064;gmail.com&amp;gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles&amp;#064;opentrust.com&amp;gt; Fix for IES data length check on decryption.

Niko &lt;nfink95&amp;#064;gmail.com&amp;gt; fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff&amp;#064;cryptovision.com&amp;gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Luukas Deputat &lt;https://github.com/lukas.deputat&amp;#064;gmail.com&amp;gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.

Andréacuticle Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;https://github.com/wglanton77&amp;#064;gmail.com&amp;gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle &lt;https://github.com/jnaegle&amp;#064;grierforensics.com&amp;gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;https://github.com/girazoki&gt;&amp;#064;wpi.edu&amp;gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storois72@064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>ViveSoren &lt;https://github.com/ViveSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>Alexandr Krivoshta &lt;wipe@ya.ru&gt; N4 calculation fix to GOFB mode.</li>
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<li>ViveSoren &lt;https://github.com/ViveSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
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<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>grieu &lt;https://grieu#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
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<li>grieu &lt;https://grieu#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
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<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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That's all there is to it!
@c \input texinfo.tex  @c -*.texinfo*-
@c
@c %**start of header
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1.116 jackson 2.10.2

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/jar/org/keycloak/representations/adapters/config/AdapterHttpClientConfig.java

/jar/org/keycloak/representations/idm/PublishedRealmRepresentation.java

/jar/org/keycloak/crypto/SignatureException.java

/jar/org/keycloak/representations/idm/ClientMappingsRepresentation.java

/jar/org/keycloak/representations/idm/VersionRepresentation.java

/jar/org/keycloak/representations/idm/RoleRepresentation.java

/jar/org/keycloak/representations/idm/AuthenticatorConfigRepresentation.java

/jar/org/keycloak/representations/idm/authorization/DecisionStrategy.java

/jar/org/keycloak/crypto/MacSignatureVerifierContext.java

/jar/org/keycloak/representations/idm/GroupRepresentation.java

/jar/org/keycloak/crypto/KeyType.java

/jar/org/keycloak/representations/adapters/action/LogoutAction.java

/jar/org/keycloak/representations/idm/TokenCategory.java

/jar/org/keycloak/representations/idm/AuthenticatorConfigInfoRepresentation.java

/jar/org/keycloak/representations/idm/authorization/AbstractPolicyRepresentation.java

/jar/org/keycloak/representations/idm/authorization/ScopeRepresentation.java

/jar/org/keycloak/crypto/SignatureVerifierContext.java

/jar/org/keycloak/representations/idm/authorization/ClientPolicyRepresentation.java

/jar/org/keycloak/util/JWKSUtils.java

/jar/org/keycloak/representations/idm/ScopeMappingRepresentation.java

/jar/org/keycloak/representations/idm/ErrorRepresentation.java

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/jar/org/keycloak/representations/idm/AuthenticatorConfigRepresentation.java

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/jar/org/keycloak/crypto/MacSignatureVerifierContext.java

/jar/org/keycloak/representations/idm/GroupRepresentation.java

/jar/org/keycloak/representations/idm/TokenCategory.java

/jar/org/keycloak/representations/adapters/action/LogoutAction.java

/jar/org/keycloak/representations/idm/TokenCategory.java

/jar/org/keycloak/representations/idm/AuthorizationConfigInfoRepresentation.java

/jar/org/keycloak/representations/idm/authorization/AbstractPolicyRepresentation.java

/jar/org/keycloak/representations/idm/authorization/ScopeRepresentation.java
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java

* /opt/ws_local/PERMITS_SQL/1080728095_1597680048.57/0/keycloak-core-10-0-0-sources-
  jar/org/keycloak/crypto/SignatureSignerContext.java
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  jar/org/keycloak/constants/AdapterConstants.java
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  jar/org/keycloak/representations/AccessTokenResponse.java
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  jar/org/keycloak/OAuthErrorException.java
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1.119 libphonenumber 8.0.0

1.120 pgbackrest 2.24-1.pgdg100+1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.131 lzo 2.06 8.el7

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Theodore Ts'o
23-June-2007

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### 1.135 diffutils 3.5-3

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Authors/contributors include:

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Alex Suykov
Alexander Monakov
Andre McCurdy
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Anthony G. Basile
Aric Belsito
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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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1.156 swagger-parser-v3 2.0.18

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Acio Jnior <acciiodantasjunior@gmail.com>
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Aleksandar Dezelin <dezelin@gmail.com>
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GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <dixin20101023@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdovistehbest@gmail.com>
Greg Ward <greg@gerg.ca>
Gregoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustost@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume.charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <siamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustovfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <sigungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Löffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuhe@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@gmail.com>
Heschi Kreinick <heschi@gmail.com>
Hidetatsu Yaginuma <ygnmbhdtt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki Nakamura <hnakamur@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@gmail.com>
Hsin Tsao <tsao@gmail.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <shuiker@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <shakim@gmail.com> <shyangah@gmail.com>
Ian Cottrell <iancottrell@gmail.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescr.ws>
Ian Haken <shaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Spary <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorberstein@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielistta <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timo Savola <timosavola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@gmail.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias klauser <tklauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Neal <todd@meal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <pkvm5aw@slicelias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou.google.com>
Yann Hodique <yahodique@gmail.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattin.jp@gmail.com>
Yasuuki Oka <yasuuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep.google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <s3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxh@cn.ibm.com>
Yuji Yaginuma <yuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <elpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuvval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintlf <zbintlf@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Gershman <zgershman@pivotal.io>
Zak <zrjknill@gmail.com>
Zakatell Kanda <zi@zkanda.io>
Zellyn Hunter <zellyn@sqaureup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>
Zhengyu He <hzy@google.com>
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Zhongtao Chen <chenzhenhtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tbunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
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1.168 apt 1.4.9

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1.177 logrus 1.6.0

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/**
 * Encodes and decodes to and from Base64 notation.<p>
 * 
 * Example:<p>
 * 
 * <code>String encoded = Base64.encode( myByteArray );</code><br>
 * <code>byte[] myByteArray = Base64.decode( encoded );</code><p>
 * 
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
 * and encoding using the URL-safe and Ordered dialects.<p>
 * 
 * Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
 * Section 2.1, implementations should not add line feeds unless explicitly told
 * to do so. I've got Base64 set to this behavior now, although earlier versions
 * broke lines by default.<p>
 * 
 * The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:<p>
 * 
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code><p>
 * to compress the data before encoding it and then making the output have newline characters.<p>
* <p>Also...</p>
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
* 
* 
* <p>Change Log:</p>
* </p>
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* <li>v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* { {@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}
* method.</li>
* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the { {@link #encodeBytesToBytes(byte[])} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added { {@link #encodeBytesToBytes(byte[], int, int, int)} } and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:</li>
* <li>Does not break lines, by default. This is to keep in compliance with

* <li><em>Throws exceptions instead of returning null values.</em> Because some operations
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of a java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
*  </li>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </ol>
*  </li>
* <li>The default is RFC3548 format.</li>
*  </li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
*  </li>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>
* for contributing the new Base64 dialects.
* </li>
*  
*  
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
* Added the ability to "suspend" encoding in the Output Stream so
you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream passes on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
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* This software comes with no guarantees or warranties but with
  * plenty of well-wishing instead!
* Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.
@version 2.3.7
*/

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* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-
  * jar/org/keycloak/common/util/Base64.java

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* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-jar/org/keycloak/common/util/HttpPostRedirect.java
* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-jar/org/keycloak/common/util/HttpRedirect.java
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* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-jar/org/keycloak/common/util/StringPropertyReplacer.java
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jar/org/keycloak/common/util/ObjectUtil.java
* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-
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jar/org/keycloak/common/util/KerberosSerializationUtils.java
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jar/org/keycloak/common/util/NetworkUtils.java
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jar/org/keycloak/common/util/KeyUtils.java
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jar/org/keycloak/common/util/KeystoreUtil.java
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jar/org/keycloak/common/util/Base64Url.java
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jar/org/keycloak/common/util/reflections/SetAccessiblePrivilegedAction.java
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jar/org/keycloak/common/Profile.java
* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-
jar/org/keycloak/common/ClientConnection.java
* /opt/ws_local/PERMITS_SQL/1080728082_1597680137.82/0/keycloak-common-10-0-0-sources-
jar/org/keycloak/common/util/CollectionUtil.java
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1.179 paranamer 2.8

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1.181 adduser 3.115

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Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
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1.190 javax-websocket-api 1.1

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1.191 e2fsprogs 1.45.5-r0

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

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

 - trivial database library - private includes
 -
 - Copyright (C) Andrew Tridgell 2005
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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
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1.192 javax-interceptor-api 1.2

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1.194 avro 1.8.2

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1.197 swagger-compat-spec-parser 1.0.50
1.197.1 Available under license :
   No license file was found, but licenses were detected in source scan.

   package io.swagger.models.resourcelisting;
import io.swagger.models.SwaggerBaseModel;

public class ApiInfo extends SwaggerBaseModel {
    private String title = null;
    private String description = null;
    private String termsOfServiceUrl = null;
    private String contact = null;
    private String license = null;
    private String licenseUrl = null;

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getTermsOfServiceUrl() {
        return termsOfServiceUrl;
    }

    public void setTermsOfServiceUrl(String termsOfServiceUrl) {
        this.termsOfServiceUrl = termsOfServiceUrl;
    }

    public String getContact() {
        return contact;
    }

    public void setContact(String contact) {
        this.contact = contact;
    }

    public String getLicense() {
        return license;
    }

    public void setLicense(String license) {
    }

    public void setLicense(String license) {
    }
}
this.license = license;
}

public String getLicenseUrl() {
    return licenseUrl;
}

public void setLicenseUrl(String licenseUrl) {
    this.licenseUrl = licenseUrl;
}

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("class ApiInfo {
    sb.append("  title: ").append(title).append("\n");
    sb.append("  description: ").append(description).append("\n");
    sb.append("  termsOfServiceUrl: ").append(termsOfServiceUrl).append("\n");
    sb.append("  contact: ").append(contact).append("\n");
    sb.append("  license: ").append(license).append("\n");
    sb.append("  licenseUrl: ").append(licenseUrl).append("\n");
    sb.append("  extraFields: ").append(getExtraFields()).append("\n");
    sb.append("}
    return sb.toString();
    }
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050289498_1591715395.38/0/swagger-compat-spec-parser-1-0-50-sources-jar/io/swagger/models/resourcelisting/ApiInfo.java
No license file was found, but licenses were detected in source scan.

{
    "swaggerVersion": "1.0",
    "apiVersion": "Cable",
    "basePath": "http://gateway.marvel.com",
    "resourcePath": "/docs/public",
    "apis": [ 
    {
        "path": "/v1/public/characters",
        "description": "",
        "operations": [ 
        {
            "httpMethod": "GET",
            "nickname": "getCreatorCollection",
            "responseClass": "CharacterDataWrapper",
            "notes": "Fetches lists of comic characters with optional filters. See notes on individual parameters below.",
            "_id": "5318a13f480b07a76f3b2958",
            "parameters": [ 
            {
                "name": "characters", "in": "path", "required": true, "description": "",
                "type": "array", "items": { "type": "string" }, "collectionStyle": "comma", "collectionFormat": "multi" }, 
            ]
        }
    ]
}]
}
"errorResponses": [
{
  "code": 409,
  "reason": "Limit greater than 100.",
  "_id": "5318a13f480b07a76f3b296b"
},
{
  "code": 409,
  "reason": "Limit invalid or below 1.",
  "_id": "5318a13f480b07a76f3b296a"
},
{
  "code": 409,
  "reason": "Invalid or unrecognized parameter.",
  "_id": "5318a13f480b07a76f3b2969"
},
{
  "code": 409,
  "reason": "Empty parameter.",
  "_id": "5318a13f480b07a76f3b2968"
},
{
  "code": 409,
  "reason": "Invalid or unrecognized ordering parameter.",
  "_id": "5318a13f480b07a76f3b2967"
},
{
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13f480b07a76f3b2966"
},
{
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13f480b07a76f3b2965"
}
],
"parameters": [
{
  "name": "name",
  "description": "Return only characters matching the specified full character name (e.g. Spider-Man).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2964",
  "allowMultiple": false,
  "required": false
}]}
"name": "nameStartsWith",
"description": "Return characters with names that begin with the specified string (e.g. Sp.").",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2963",
"allowMultiple": false,
"required": false
},

{
"name": "modifiedSince",
"description": "Return only characters which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2962",
"allowMultiple": false,
"required": false
},

{
"name": "comics",
"description": "Return only characters which appear in the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2961",
"allowMultiple": true,
"required": false
},

{
"name": "series",
"description": "Return only characters which appear the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2960",
"allowMultiple": true,
"required": false
},

{
"name": "events",
"description": "Return only characters which appear in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b295f",
"allowMultiple": true,
"required": false
},
"name": "stories",
"description": "Return only characters which appear the specified stories (accepts a comma-seperated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b295e",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b295c",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b295d",
"values": [
"name",
"modified",
"-name",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b295a",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b295b",
"values": []
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set."
}
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2959",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of characters."
}
]
},
{
"path": "/v1/public/characters/{characterId}",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getCharacterIndividual",
"responseClass": "CharacterDataWrapper",
"notes": "This method fetches a single character resource. It is the canonical URI for any character resource provided by the API."

"_id": "5318a13e480b07a76f3b2818",
"errorResponses": [
{
"code": 404,
"reason": "Character not found.",
"_id": "5318a13e480b07a76f3b281a"
}
],
"parameters": [
{
"name": "characterId",
"description": "A single character id.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b2819",
"allowMultiple": false,
"required": true
}
],
"summary": "Fetches a single character by id."
}
]
},
{
"path": "/v1/public/characters/{characterId}/comics",
"description": "",
"operations": [
"httpMethod": "GET",
"nickname": "getComicsCharacterCollection",
"responseClass": "ComicDataWrapper",
"notes": "Fetches lists of comics containing a specific character, with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b2a35",
"errorResponses": [
{
  "code": 409,
  "reason": "Limit greater than 100.",
  "_id": "5318a13f480b07a76f3b2a5a"
},
{
  "code": 409,
  "reason": "Limit invalid or below 1.",
  "_id": "5318a13f480b07a76f3b2a59"
},
{
  "code": 409,
  "reason": "Invalid or unrecognized parameter.",
  "_id": "5318a13f480b07a76f3b2a58"
},
{
  "code": 409,
  "reason": "Empty parameter.",
  "_id": "5318a13f480b07a76f3b2a57"
},
{
  "code": 409,
  "reason": "Invalid or unrecognized ordering parameter.",
  "_id": "5318a13f480b07a76f3b2a56"
},
{
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13f480b07a76f3b2a55"
},
{
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13f480b07a76f3b2a54"
}
],
"parameters": [
{
  "name": "characterId",
  "description": "The character id."}
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2a53",
"allowMultiple": false,
"required": true
},
{
"name": "format",
"description": "Filter by the issue format (e.g. comic, digital comic, hardcover).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a51",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2a52",
"values": [
"comic",
"magazine",
"trade paperback",
"hardcover",
"digest",
"graphic novel",
"digital comic",
"infinite comic"
]
},
"allowMultiple": false,
"required": false
},
{
"name": "formatType",
"description": "Filter by the issue format type (comic or collection).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a4f",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2a50",
"values": [
"comic",
"collection"
]
},
"allowMultiple": false,
"required": false
},
{
"name": "noVariants",}
"description": "Exclude variant comics from the result set.",
"dataType": "boolean",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a4d",
"allowableValues": {
  "valueType": "LIST",
  "_id": "5318a13f480b07a76f3b2a4e",
  "values": [
    "true"
  ],
  "allowMultiple": false,
  "required": false
},
{
  "name": "dateDescriptor",
  "description": "Return comics within a predefined date range.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2a4b",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b2a4c",
    "values": [
      "lastWeek",
      "thisWeek",
      "nextWeek",
      "thisMonth"
    ],
    "allowMultiple": false,
    "required": false
  },
  {
    "name": "dateRange",
    "description": "Return comics within a predefined date range. Dates must be specified as date1,date2 (e.g. 2013-01-01,2013-01-02). Dates are preferably formatted as YYYY-MM-DD but may be sent as any common date format.",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2a4a",
    "allowMultiple": true,
    "required": false
  },
  {
    "name": "diamondCode",
    "description": "Filter by diamond code.",
    "dataType": "string",
"required": false
},

{
"name": "hasDigitalIssue",
"description": "Include only results which are available digitally.",
"dataType": "boolean",
"paramType": "query",
"_id": "5318a1f480b07a76f3b2a42",
"allowableValues": {

"valueType": "LIST",
"_id": "5318a1f480b07a76f3b2a43",
"values": ["true"]
},
"allowMultiple": false,
"required": false
},

{
"name": "modifiedSince",
"description": "Return only comics which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a1f480b07a76f3b2a41",
"allowMultiple": false,
"required": false
},

{
"name": "creators",
"description": "Return only comics which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a1f480b07a76f3b2a40",
"allowMultiple": true,
"required": false
},

{
"name": "series",
"description": "Return only comics which are part of the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a1f480b07a76f3b2a3f",
"allowMultiple": true,
"required": false
}
"name": "events",
"description": "Return only comics which take place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a3e",
"allowMultiple": true,
"required": false
},
{
"name": "stories",
"description": "Return only comics which contain the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a3d",
"allowMultiple": true,
"required": false
},
{
"name": "sharedAppearances",
"description": "Return only comics in which the specified characters appear together (for example in which BOTH Spider-Man and Wolverine appear).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a3c",
"allowMultiple": true,
"required": false
},
{
"name": "collaborators",
"description": "Return only comics in which the specified creators worked together (for example in which BOTH Stan Lee and Jack Kirby did work).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a3b",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed."
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a39",
"allowableValues": {
"valueType": "LIST"}
"_id": "5318a13f480b07a76f3b2a3a",
"values": [  
"focDate",
"onsaleDate",
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"issueNumber",
"modified",
"-focDate",
"-onsaleDate",
"-title",
"-issueNumber",
"-modified"
]  
},
"allowMultiple": true,
"required": false  
},  
{  
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a37",
"allowableValues": {  
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2a38",
"values": []
}  
},
"allowMultiple": false,
"required": false  
},  
{  
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a36",
"allowMultiple": false,
"required": false  
}  
],
"summary": "Fetches lists of comics filtered by a character id."  
}  
]  
},  
}
"path": "/v1/public/characters/{characterId}/events",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getCharacterEventsCollection",
"responseClass": "EventDataWrapper",
"notes": "Fetches lists of events in which a specific character appears, with optional filters. See notes on individual parameters below.",
"_id": "5318a13e480b07a76f3b28e3",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b28f7"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b28f6"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b28f5"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b28f4"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13e480b07a76f3b28f3"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13e480b07a76f3b28f2"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13e480b07a76f3b28f1"
}
],
"parameters": [
{ "name": "characterId", "description": "The character ID.", "dataType": "int", "paramType": "path", "_id": "5318a13e480b07a76f3b28f0", "allowMultiple": false, "required": true }
,
{ "name": "name", "description": "Filter the event list by name.", "dataType": "string", "paramType": "query", "_id": "5318a13e480b07a76f3b28ef", "allowMultiple": false, "required": false }
,
{ "name": "nameStartsWith", "description": "Return events with names that begin with the specified string (e.g. Sp.).", "dataType": "string", "paramType": "query", "_id": "5318a13e480b07a76f3b28ee", "allowMultiple": false, "required": false }
,
{ "name": "modifiedSince", "description": "Return only events which have been modified since the specified date.", "dataType": "Date", "paramType": "query", "_id": "5318a13e480b07a76f3b28ed", "allowMultiple": false, "required": false }
,
{ "name": "creators", "description": "Return only events which feature work by the specified creators (accepts a comma-separated list of ids).", "dataType": "int", "paramType": "query", "_id": "5318a13e480b07a76f3b28ec", "allowMultiple": true, "required": false }
,
{ "name": "series",}
"description": "Return only events which are part of the specified series (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28eb",
  "allowMultiple": true,
  "required": false
},
{
  "name": "comics",
  "description": "Return only events which take place in the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28ea",
  "allowMultiple": true,
  "required": false
},
{
  "name": "stories",
  "description": "Return only events which contain the specified stories (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28e9",
  "allowMultiple": true,
  "required": false
},
{
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28e7",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13e480b07a76f3b28e8",
    "values": [
      "name",
      "startDate",
      "modified",
      "-name",
      "-startDate",
      "-modified"
    ],

    "allowMultiple": true,
"required": false
],

[  
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28e5",
"allowableValues": {  
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b28e6",
"values": []
},
"allowMultiple": false,
"required": false
},

[  
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28e4",
"allowMultiple": false,
"required": false
]
],  
"summary": "Fetches lists of events filtered by a character id."
]  
],

{
"path": "/v1/public/characters/{characterId}/series",
"description": "",
"operations": [

  
  "httpMethod": "GET",
  "nickname": "getCharacterSeriesCollection",
  "responseClass": "SeriesDataWrapper",
  "notes": "Fetches lists of comic series in which a specific character appears, with optional filters. See notes on individual parameters below.",
  "_id": "5318a13e480b07a76f3b290f",
  "errorResponses": [

  
  "code": 409,
  "reason": "Limit greater than 100.",
  "_id": "5318a13e480b07a76f3b2928"
]
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b2927"
],

"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b2926"
],

"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b2925"
],

"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13e480b07a76f3b2924"
],

"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13e480b07a76f3b2923"
],

"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13e480b07a76f3b2922"
]

"parameters": [

{  
  "name": "characterId",
  "description": "The character ID",
  "dataType": "int",
  "paramType": "path",
  "_id": "5318a13e480b07a76f3b2921",
  "allowMultiple": false,
  "required": true
}

{  
  "name": "title",
  "description": "Filter by series title.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2920",
}
"allowMultiple": false,
"required": false
},

{
  "name": "titleStartsWith",
  "description": "Return series with titles that begin with the specified string (e.g. Sp.").,
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b291f",
  "allowMultiple": false,
  "required": false
},

{
  "name": "startYear",
  "description": "Return only series matching the specified start year.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b291e",
  "allowMultiple": false,
  "required": false
},

{
  "name": "modifiedSince",
  "description": "Return only series which have been modified since the specified date.",
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b291d",
  "allowMultiple": false,
  "required": false
},

{
  "name": "comics",
  "description": "Return only series which contain the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b291c",
  "allowMultiple": true,
  "required": false
},

{
  "name": "stories",
  "description": "Return only series which contain the specified stories (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b291b",
  "allowMultiple": true,
"required": false
  },
  {
    "name": "events",
    "description": "Return only series which have comics that take place during the specified events (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    ":Id": "5318a13e480b07a76f3b291a",
    "allowMultiple": true,
    "required": false
  },
  {
    "name": "creators",
    "description": "Return only series which feature work by the specified creators (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "id": "5318a13e480b07a76f3b2919",
    "allowMultiple": true,
    "required": false
  },
  {
    "name": "seriesType",
    "description": "Filter the series by publication frequency type.",
    "dataType": "string",
    "paramType": "query",
    "id": "5318a13e480b07a76f3b2917",
    "allowableValues": {
      "valueType": "LIST",
      "id": "5318a13e480b07a76f3b2918",
      "values": [
        "collection",
        "one shot",
        "limited",
        "ongoing"
      ]
    },
    "allowMultiple": false,
    "required": false
  },
  {
    "name": "contains",
    "description": "Return only series containing one or more comics with the specified format.",
    "dataType": "string",
    "paramType": "query",
    "id": "5318a13e480b07a76f3b2915",
    "allowableValues": {"}
"valueType": "LIST",
"_id": "5318a13e480b07a76f3b2916",
"values": [
  "comic",
  "magazine",
  "trade paperback",
  "hardcover",
  "digest",
  "graphic novel",
  "digital comic",
  "infinite comic"
],
"allowMultiple": true,
"required": false
},
{
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2913",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13e480b07a76f3b2914",
    "values": [
      "title",
      "modified",
      "startYear",
      "-title",
      "-modified",
      "-startYear"
    ],
    "allowMultiple": true,
    "required": false
  },
  {
    "name": "limit",
    "description": "Limit the result set to the specified number of resources.",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13e480b07a76f3b2911",
    "allowableValues": {
      "min": 1,
      "max": 100,
      "valueType": "RANGE",
    },
"_id": "5318a13e480b07a76f3b2912",
"values": []
],
"allowMultiple": false,
"required": false
],
[
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2910",
"allowMultiple": false,
"required": false
]
],
"summary": "Fetches lists of series filtered by a character id."
}
],
{
"path": "/v1/public/characters/{characterId}/stories",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getCharacterStoryCollection",
"responseClass": "StoryDataWrapper",
"notes": "Fetches lists of comic stories featuring a specific character with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b29a1",
"errorResponses": [
{"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13f480b07a76f3b29b3"
},
{"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b29b2"
},
{"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b29b1"
}],
"_id": 5318a13f480b07a76f3b29b4
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b29b0"
],
[{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b29af"
},
[{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b29ae"
},
[{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b29ad"
}
].
"parameters": [
{
"name": "characterId",
"description": "The character ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b29ac",
"allowMultiple": false,
"required": true
},
{
"name": "modifiedSince",
"description": "Return only stories which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29ab",
"allowMultiple": false,
"required": false
},
{
"name": "comics",
"description": "Return only stories contained in the specified (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29aa",
"allowMultiple": true,
"required": false
}].
[ "name": "series", "description": "Return only stories contained the specified series (accepts a comma-separated list of ids)", "dataType": "int", "paramType": "query", "_id": "5318a13f480b07a76f3b29a9", "allowMultiple": true, "required": false },
{
 "name": "events", "description": "Return only stories which take place during the specified events (accepts a comma-separated list of ids)", "dataType": "int", "paramType": "query", 
 
 
 _id": "5318a13f480b07a76f3b29a8", 
 "allowMultiple": true, 
 "required": false },
{
 "name": "creators", "description": "Return only stories which feature work by the specified creators (accepts a comma-separated list of ids) ", 
 "dataType": "int", "paramType": "query", 
 
 _id": "5318a13f480b07a76f3b29a7", 
 "allowMultiple": true, 
 "required": false },
{
 "name": "orderBy", "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\" ", "dataType": "string", "paramType": "query", 
 _id": "5318a13f480b07a76f3b29a5", 
 "allowableValues": { "valueType": "LIST", 
 _id": "5318a13f480b07a76f3b29a6", "values": [ "id", "modified", "-id", 
 
 -modified" ] }, "allowMultiple": true, "required": false}
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29a3",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b29a4",
"values": []
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29a2",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of stories filtered by a character id."
}
]
},
{
"path": "/v1/public/comics",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicsCollection",
"responseClass": "ComicDataWrapper",
"notes": "Fetches lists of comics with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b292b",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13f480b07a76f3b2950"
},
{

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"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b294f"
},
[
  
  "code": 409,
  "reason": "Invalid or unrecognized parameter.",
  "_id": "5318a13f480b07a76f3b294e"
},
[
  "code": 409,
  "reason": "Empty parameter.",
  "_id": "5318a13f480b07a76f3b294d"
},
[
  "code": 409,
  "reason": "Invalid or unrecognized ordering parameter.",
  "_id": "5318a13f480b07a76f3b294c"
},
[
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13f480b07a76f3b294b"
},
[
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13f480b07a76f3b294a"
]
}

"parameters": [
  {
    "name": "format",
    "description": "Filter by the issue format (e.g. comic, digital comic, hardcover).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2948",
    "allowableValues": {
      "valueType": "LIST",
      "_id": "5318a13f480b07a76f3b2949",
      "values": [
        "comic",
        "magazine",
        "trade paperback",
        "hardcover",
        "digest",
        "graphic novel",
        "digital comic",
        "digest comic"
      ]
    }
  }
]
"infinite comic"
],
"allowMultiple": false,
"required": false
},
{
"name": "formatType",
"description": "Filter by the issue format type (comic or collection).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2946",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2947",
"values": [
"comic",
"collection"
]
},
"allowMultiple": false,
"required": false
},
{
"name": "noVariants",
"description": "Exclude variants (alternate covers, secondary printings, director's cuts, etc.) from the result set.",
"dataType": "boolean",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2944",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2945",
"values": ["true"
]
},
"allowMultiple": false,
"required": false
},
{
"name": "dateDescriptor",
"description": "Return comics within a predefined date range.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2942",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2943"}
"paramType": "query",
"_id": "5318a13f480b07a76f3b2938",
"allowMultiple": false,
"required": false
},

{ "name": "creators",
"description": "Return only comics which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2937",
"allowMultiple": true,
"required": false
},

{ "name": "characters",
"description": "Return only comics which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2936",
"allowMultiple": true,
"required": false
},

{ "name": "series",
"description": "Return only comics which are part of the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2935",
"allowMultiple": true,
"required": false
},

{ "name": "events",
"description": "Return only comics which take place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2934",
"allowMultiple": true,
"required": false
},

{ "name": "stories",
"description": "Return only comics which contain the specified stories (accepts a comma-separated list of
ids).

    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2933",
    "allowMultiple": true,
    "required": false
  },
  {
    "name": "sharedAppearances",
    "description": "Return only comics in which the specified characters appear together (for example in which BOTH Spider-Man and Wolverine appear). Accepts a comma-separated list of ids."
  },
  {
    "name": "collaborators",
    "description": "Return only comics in which the specified creators worked together (for example in which BOTH Stan Lee and Jack Kirby did work). Accepts a comma-separated list of ids."
  },
  {
    "name": "orderBy",
    "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed."
  },
  {
    "name": "orderBy",
    "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed."
  }
]
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b292d",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b292e",
"values": []
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b292c",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of comics."
}
]
},
{
"path": "/v1/public/comics/{comicId}",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicIndividual",
"responseClass": "ComicDataWrapper",
"notes": "This method fetches a single comic resource. It is the canonical URI for any comic resource
provided by the API.",
"_id": "5318a13e480b07a76f3b27ae",
"errorResponses": [
{

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"code": 404,
"reason": "Comic not found.",
"_id": "5318a13e480b07a76f3b27b0"
],
"parameters": [
{
"name": "comicId",
"description": "A single comic.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b27af",
"allowMultiple": false,
"required": true
}
],
"summary": "Fetches a single comic by id."
}
]
"path": "/v1/public/comics/{comicId}/characters",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicCharacterCollection",
"responseClass": "CharacterDataWrapper",
"notes": "Fetches lists of characters which appear in a specific comic with optional filters. See notes on individual parameters below.",
"_id": "5318a13e480b07a76f3b2802",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b2815"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b2814"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b2813"
}
]
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b2812"
},

[  
  "code": 409,
  "reason": "Invalid or unrecognized ordering parameter.",
  "_id": "5318a13e480b07a76f3b2811"
],

[  
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13e480b07a76f3b2810"
],

[  
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13e480b07a76f3b280f"
]
].

"parameters": [
  
  {  
    "name": "comicId",
    "description": "The comic id.",
    "dataType": "int",
    "paramType": "path",
    "_id": "5318a13e480b07a76f3b280e",
    "allowMultiple": false,
    "required": true
  },

  {  
    "name": "name",
    "description": "Return only characters matching the specified full character name (e.g. Spider-Man).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13e480b07a76f3b280d",
    "allowMultiple": false,
    "required": false
  },

  {  
    "name": "nameStartsWith",
    "description": "Return characters with names that begin with the specified string (e.g. Sp).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13e480b07a76f3b280c",
    "allowMultiple": false,
    "required": false
  }
]
["name": "modifiedSince",
"description": "Return only characters which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13e4f0b07a76f3b280b",
"allowMultiple": false,
"required": false
],

["name": "series",
"description": "Return only characters which appear the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e4f0b07a76f3b280a",
"allowMultiple": true,
"required": false
],

["name": "events",
"description": "Return only characters which appear comics that took place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e4f0b07a76f3b2809",
"allowMultiple": true,
"required": false
],

["name": "stories",
"description": "Return only characters which appear the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e4f0b07a76f3b2808",
"allowMultiple": true,
"required": false
],

["name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e4f0b07a76f3b2806",
"allowableValues": { "valueType": "LIST" },
"_id": "5318a13e480b07a76f3b2807",
"values": [
  
  
],
"allowMultiple": true,
"required": false
},

{
  "name": "limit",
  "description": "Limit the result set to the specified number of resources.",
  "dataType": "int",
  "paramType": "query",
  
},

{
  "name": "offset",
  "description": "Skip the specified number of resources in the result set.",
  "dataType": "int",
  "paramType": "query",
  
},

"summary": "Fetches lists of characters filtered by a comic id."
}
"responseClass": "CreatorDataWrapper",
"notes": "Fetches lists of comic creators whose work appears in a specific comic, with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b29e8",
"errorResponses": [
{
  "code": 409,
  "reason": "Limit greater than 100.",
  "_id": "5318a13f480b07a76f3b2a01"
},
{
  "code": 409,
  "reason": "Limit invalid or below 1.",
  "_id": "5318a13f480b07a76f3b2a00"
},
{
  "code": 409,
  "reason": "Invalid or unrecognized parameter.",
  "_id": "5318a13f480b07a76f3b29ff"
},
{
  "code": 409,
  "reason": "Empty parameter.",
  "_id": "5318a13f480b07a76f3b29fe"
},
{
  "code": 409,
  "reason": "Invalid or unrecognized ordering parameter.",
  "_id": "5318a13f480b07a76f3b29fd"
},
{
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13f480b07a76f3b29fc"
},
{
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13f480b07a76f3b29fb"
}],
"parameters": [
{
  "name": "comicId",
  "description": "The comic id.",
  "dataType": "int",
  "paramType": "path",
  "_id": "5318a13f480b07a76f3b29fa"}
"allowMultiple": false,
"required": true
},
{
  "name": "firstName",
  "description": "Filter by creator first name (e.g. brian).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29f9",
  "allowMultiple": false,
  "required": false
},
{
  "name": "middleName",
  "description": "Filter by creator middle name (e.g. Michael).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29f8",
  "allowMultiple": false,
  "required": false
},
{
  "name": "lastName",
  "description": "Filter by creator last name (e.g. Bendis).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29f7",
  "allowMultiple": false,
  "required": false
},
{
  "name": "suffix",
  "description": "Filter by suffix or honorific (e.g. Jr., Sr.).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29f6",
  "allowMultiple": false,
  "required": false
},
{
  "name": "nameStartsWith",
  "description": "Filter by creator names that match criteria (e.g. B, St L).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29f5",
  "allowMultiple": false,
  "required": false
}.
{ "name": "firstNameStartsWith",
"description": "Filter by creator first names that match criteria (e.g. B, St L).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29f4",
"allowMultiple": false,
"required": false }
,
{ "name": "middleNameStartsWith",
"description": "Filter by creator middle names that match criteria (e.g. Mi).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29f3",
"allowMultiple": false,
"required": false }
,
{ "name": "lastNameStartsWith",
"description": "Filter by creator last names that match criteria (e.g. Ben).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29f2",
"allowMultiple": false,
"required": false }
,
{ "name": "modifiedSince",
"description": "Return only creators which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29f1",
"allowMultiple": false,
"required": false }
,
{ "name": "comics",
"description": "Return only creators who worked on the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29f0",
"allowMultiple": true,
"required": false }
,
{ "name": "series",
"description": "Return only creators who worked on the specified series (accepts a comma-separated list of ids).",

    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b29ef",
    "allowMultiple": true,
    "required": false
}

{
    "name": "stories",
    "description": "Return only creators who worked on the specified stories (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b29ee",
    "allowMultiple": true,
    "required": false
}

{
    "name": "orderBy",
    "description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b29ec",
    "allowableValues": {
        "valueType": "LIST",
        "_id": "5318a13f480b07a76f3b29ed",
        "values": [
            "lastName",
            "firstName",
            "middleName",
            "suffix",
            "modified",
            "-lastName",
            "-firstName",
            "-middleName",
            "-suffix",
            "-modified"
        ]
    }
}

"allowMultiple": true,
    "required": false
}

{
    "name": "limit",
    "description": "Limit the result set to the specified number of resources.",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b29ee",
    "allowMultiple": true,
    "required": false
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"paramType": "query",
"_id": "5318a13f480b07a76f3b29ea",
"allowableValues": {
  "min": 1,
  "max": 100,
  "valueType": "RANGE",
  "_id": "5318a13f480b07a76f3b29eb",
  "values": []
},
"allowMultiple": false,
"required": false
},
{
  "name": "offset",
  "description": "Skip the specified number of resources in the result set.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2a04",
  "allowMultiple": false,
  "required": false
}
],
"summary": "Fetches lists of creators filtered by a comic id."
}],
{
  "path": "/v1/public/comics/{comicId}/events",
  "description": "",
  "operations": [
    {
      "httpMethod": "GET",
      "nickname": "getIssueEventsCollection",
      "responseClass": "EventDataWrapper",
      "notes": "Fetches lists of events in which a specific comic appears, with optional filters. See notes on individual parameters below. .",
      "_id": "5318a13f480b07a76f3b2a04",
      "errorResponses": [
        {
          "code": 409,
          "reason": "Limit greater than 100. .",
          "_id": "5318a13f480b07a76f3b2a18"
        },
        {
          "code": 409,
          "reason": "Limit invalid or below 1. .",
          "_id": "5318a13f480b07a76f3b2a17"
        }
      }
    }
  ]
}
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2a16"
}

{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b2a15"
}

{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b2a14"
}

{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b2a13"
}

{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2a12"
}

"parameters": [

{
"name": "comicId",
"description": "The comic ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2a11",
"allowMultiple": false,
"required": true
}

{
"name": "name",
"description": "Filter the event list by name.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a10",
"allowMultiple": false,
"required": false
}

{
"name": "nameStartsWith",
"description": "Return events with names that begin with the specified string (e.g. Sp.).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a09",
"allowMultiple": false,
"required": false
}
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a0f",
"allowMultiple": false,
"required": false
},
{
"name": "modifiedSince",
"description": "Return only events which have been modified since the specified date."
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a0e",
"allowMultiple": false,
"required": false
},
{
"name": "creators",
"description": "Return only events which feature work by the specified creators (accepts a comma-separated list of ids)."
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a0d",
"allowMultiple": true,
"required": false
},
{
"name": "characters",
"description": "Return only events which feature the specified characters (accepts a comma-separated list of ids)."
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a0c",
"allowMultiple": true,
"required": false
},
{
"name": "series",
"description": "Return only events which are part of the specified series (accepts a comma-separated list of ids)."
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a0b",
"allowMultiple": true,
"required": false
}
{
"name": "stories",
"description": "Return only events which contain the specified stories (accepts a comma-separated list of
ids),
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2a0a",
    "allowMultiple": true,
    "required": false
  },
  [     
    "name": "orderBy",
    "description": "Order the result set by a field or fields. Add a \"\"-\"\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2a08",
    "allowableValues": { 
      "valueType": "LIST",
      "_id": "5318a13f480b07a76f3b2a09",
      "values": [ 
        "name",
        "startDate",
        "modified",
        "-name",
        "-startDate",
        "-modified"
      ]
    },
    "allowMultiple": true,
    "required": false
  },
  [     
    "name": "limit",
    "description": "Limit the result set to the specified number of resources.\",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2a06",
    "allowableValues": { 
      "min": 1,
      "max": 100,
      "valueType": "RANGE",
      "_id": "5318a13f480b07a76f3b2a07",
      "values": []
    },
    "allowMultiple": false,
    "required": false
  },
  [     
    "name": "offset",
    "description": "Skip the specified number of resources in the result set.\",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2a0b",
    "allowableValues": { 
      "min": 0,
      "max": 100,
      "valueType": "RANGE",
      "_id": "5318a13f480b07a76f3b2a0c",
      "values": []
    },
    "allowMultiple": false,
    "required": false
  ]
}
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28fa",
"allowMultiple": false,
"required": false
]
],
"summary": "Fetches lists of events filtered by a comic id."
}
]
]
{
"path": "/v1/public/comics/{comicId}/stories",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicStoryCollection",
"responseClass": "StoryDataWrapper",
"notes": "Fetches lists of comic stories in a specific comic issue, with optional filters. See notes on individual parameters below.",
"_id": "5318a13e480b07a76f3b290c"
},
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b290c"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b290b"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b290a"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b2909"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13e480b07a76f3b2908"}
"code": 409,
"reason": "Too many values sent to a multi-value list filter."
"_id": "5318a13e480b07a76f3b2907"
},
{
"code": 409,
"reason": "Invalid value passed to filter."
"_id": "5318a13e480b07a76f3b2906"
}

"parameters": [  
  {
"name": "comicId",
"description": "The comic ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b2905",
"allowMultiple": false,
"required": true
  },
  {
"name": "modifiedSince",
"description": "Return only stories which have been modified since the specified date."
"dataType": "Date",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2904",
"allowMultiple": false,
"required": false
  },
  {
"name": "series",
"description": "Return only stories contained the specified series (accepts a comma-separated list of ids)."
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2903",
"allowMultiple": true,
"required": false
  },
  {
"name": "events",
"description": "Return only stories which take place during the specified events (accepts a comma-separated list of ids)."
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2902",
"allowMultiple": true,
"required": false
  }
]
"name": "creators",
"description": "Return only stories which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2901",
"allowMultiple": true,
"required": false
},

"name": "characters",
"description": "Return only stories which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2900",
"allowMultiple": true,
"required": false
},

"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28fe",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13e480b07a76f3b28ff",
"values": [
"id",
"modified",
"-id",
"-modified"
]
},
"allowMultiple": true,
"required": false
},

"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28fc",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b28fd",
"values": []
}
,"allowMultiple": false,
"required": false
}
,
{
 "name": "offset",
 "description": "Skip the specified number of resources.",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13e480b07a76f3b28fb",
 "allowMultiple": false,
 "required": false
 }
,
 "summary": "Fetches lists of stories filtered by a comic id."
}
,
{
 "path": "/v1/public/creators",
 "description": "",
 "operations": [
 
 {"httpMethod": "GET",
 "nickname": "getCreatorCollection",
 "responseClass": "CreatorDataWrapper",
 "notes": "Fetches lists of comic creators with optional filters. See notes on individual parameters below.",
 
 "_id": "5318a13e480b07a76f3b27e6",
 "errorResponses": [
 
 {"code": 409,
 "reason": "Limit greater than 100.",
 
 ","_id": "5318a13e480b07a76f3b27f1"
 },
 {"code": 409,
 "reason": "Limit invalid or below 1.",
 
 ","_id": "5318a13e480b07a76f3b27fe"
 },
 {"code": 409,
 "reason": "Invalid or unrecognized parameter.",
 
 ","_id": "5318a13e480b07a76f3b27fd"
{ "code": 409, "reason": "Empty parameter.", "_id": "5318a13e480b07a76f3b27fc" },
{ "code": 409, "reason": "Invalid or unrecognized ordering parameter.", "_id": "5318a13e480b07a76f3b27fb" },
{ "code": 409, "reason": "Too many values sent to a multi-value list filter.", "_id": "5318a13e480b07a76f3b27fa" },
{ "code": 409, "reason": "Invalid value passed to filter.", "_id": "5318a13e480b07a76f3b27f9" }
],
"parameters": [ { "name": "firstName", "description": "Filter by creator first name (e.g. Brian).", "dataType": "string", "paramType": "query", "_id": "5318a13e480b07a76f3b27f8", "allowMultiple": false, "required": false },
{ "name": "middleName", "description": "Filter by creator middle name (e.g. Michael).", "dataType": "string", "paramType": "query", "_id": "5318a13e480b07a76f3b27f7", "allowMultiple": false, "required": false },
{ "name": "lastName", "description": "Filter by creator last name (e.g. Bendis).", "dataType": "string", "paramType": "query", "_id": "5318a13e480b07a76f3b27f6", "allowMultiple": false,}
"name": "modifiedSince",
"description": "Return only creators which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27f0",
"allowMultiple": false,
"required": false
},

{ "name": "comics",
"description": "Return only creators who worked on in the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27ef",
"allowMultiple": true,
"required": false
},

{ "name": "series",
"description": "Return only creators who worked on the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27ee",
"allowMultiple": true,
"required": false
},

{ "name": "events",
"description": "Return only creators who worked on comics that took place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27ed",
"allowMultiple": true,
"required": false
},

{ "name": "stories",
"description": "Return only creators who worked on the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27ee",
"allowMultiple": true,
"required": false
}
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a `-` to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27ea",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13e480b07a76f3b27eb",
"values": [
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"firstName",
"middleName",
"suffix",
"modified",
"-lastName",
"-firstName",
"-middleName",
"-suffix",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27e8",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b27e9",
"values": []
}
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27e7",
"allowableValues": {"_id": "5318a13e480b07a76f3b27e7"}
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of creators."
}
}
,
{
"path": "/v1/public/creators/{creatorId}",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getCreatorIndividual",
"responseClass": "CreatorDataWrapper",
"notes": "This method fetches a single creator resource. It is the canonical URI for any creator resource provided by the API",
"_id": "5318a13f480b07a76f3b2953",
"errorResponses": [
{
"code": 404,
"reason": "Creator not found."
,"_id": "5318a13f480b07a76f3b2955"
}],
"parameters": [
{
"name": "creatorId",
"description": "A single creator id.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2954",
"allowMultiple": false,
"required": true
}
],
"summary": "Fetches a single creator by id."
}
]
},
{
"path": "/v1/public/creators/{creatorId}/comics",
"description": "",
"operations": [
{
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"nickname": "getComicsCollection",
"responseClass": "ComicsCollectionWrapper",
"notes": "This method fetches a collection of comics created by a single creator. It is the canonical URI for any comics collection provided by the API",
"_id": "5318a13f480b07a76f3b2956",
"errorResponses": [
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"code": 404,
"reason": "Comics collection not found."
,"_id": "5318a13f480b07a76f3b2957"
}],
"parameters": [
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"name": "creatorId",
"description": "A single creator id.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2958",
"allowMultiple": false,
"required": true
}
],
"summary": "Fetches a collection of comics created by a single creator by id."
}
]
}
"responseClass": "ComicDataWrapper",
"notes": "Fetches lists of comics in which the work of a specific creator appears, with optional filters. See notes on individual parameters below.",

"_id": "5318a13f480b07a76f3b2b1e",
"errorResponses": [
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{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b2b42"
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{
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"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2b41"
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"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b2b40"
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"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b2b3f"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b2b3e"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2b3d"
}
],
"parameters": [
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"name": "creatorId",
"description": "The creator ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2b3e"
}]

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  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2b3a",
  "allowableValues": {
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    "_id": "5318a13f480b07a76f3b2b3b",
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      "magazine",
      "trade paperback",
      "hardcover",
      "digest",
      "graphic novel",
      "digital comic",
      "infinite comic"
    ]
  },
  "allowMultiple": false,
  "required": false
},
{
  "name": "formatType",
  "description": "Filter by the issue format type (comic or collection).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2b38",
  "allowableValues": {
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    "_id": "5318a13f480b07a76f3b2b39",
    "values": [
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      "collection"
    ]
  },
  "allowMultiple": false,
  "required": false
},
{
  "name": "noVariants",
  "description": "Exclude variant comics from the result set.",
  "dataType": "boolean",
  "paramType": "query"
"_id": "5318a13f480b07a76f3b2b36",
"allowableValues": {
  "valueType": "LIST",
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  "values": [
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  ]
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"allowMultiple": false,
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},

{ "name": "dateDescriptor",
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  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2b34",
  "allowableValues": {
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    "_id": "5318a13f480b07a76f3b2b35",
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      "thisWeek",
      "nextWeek",
      "thisMonth"
    ]
  },
  "allowMultiple": false,
  "required": false
},

{ "name": "dateRange",
  "description": "Return comics within a predefined date range. Dates must be specified as date1,date2 (e.g. 2013-01-01,2013-01-02). Dates are preferably formatted as YYYY-MM-DD but may be sent as any common date format.",
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  "allowMultiple": true,
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  "description": "Filter by diamond code.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2b32",
  "allowMultiple": false,
"required": false
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"description": "Filter by digital comic id.",
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"paramType": "query",
"_id": "5318a13f480b07a76f3b2b31",
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"allowMultiple": false,
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"name": "isbn",
"description": "Filter by ISBN.",
"dataType": "string",
"paramType": "query",
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"allowMultiple": false,
"required": false
],
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"name": "ean",
"description": "Filter by EAN.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b2e",
"allowMultiple": false,
"required": false
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"name": "issn",
"description": "Filter by ISSN.",
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"paramType": "query",
"_id": "5318a13f480b07a76f3b2b2d",
"allowMultiple": false,
"required": false
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"name": "hasDigitalIssue",
"description": "Include only results which are available digitally.",
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"paramType": "query",
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"valueType": "LIST",
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],
"allowMultiple": true,
"required": false
},
{
"name": "modifiedSince",
"description": "Return only comics which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b2a",
"allowMultiple": false,
"required": false
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"name": "characters",
"description": "Return only comics which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b29",
"allowMultiple": true,
"required": false
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"name": "series",
"description": "Return only comics which are part of the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b28",
"allowMultiple": true,
"required": false
},
{
"name": "events",
"description": "Return only comics which take place in the specified events (accepts a comma-separated list of ids).",}
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b27",
"allowMultiple": true,
"required": false
},
{
"name": "stories",
"description": "Return only comics which contain the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b26",
"allowMultiple": true,
"required": false
},
{
"name": "sharedAppearances",
"description": "Return only comics in which the specified characters appear together (for example in which BOTH Spider-Man and Wolverine appear).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b25",
"allowMultiple": true,
"required": false
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"name": "collaborators",
"description": "Return only comics in which the specified creators worked together (for example in which BOTH Stan Lee and Jack Kirby did work).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b24",
"allowMultiple": true,
"required": false
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"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "," to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b23",
"allowableValues": {
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"-title",
"-issueNumber",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
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"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b20",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2b21",
"values": []
},
"allowMultiple": false,
"required": false
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"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b2f",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of comics filtered by a creator id."
}
]
],
{
"path": "/v1/public/creators/{creatorId}/events",
"description": "",
"operations": [
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{
    "httpMethod": "GET",
    "nickname": "getCreatorEventsCollection",
    "responseClass": "EventDataWrapper",
    "notes": "Fetches lists of events featuring the work of a specific creator with optional filters. See notes on individual parameters below.",
    "_id": "5318a13e480b07a76f3b281d",
    "errorResponses": [
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            "reason": "Limit greater than 100.",
            "_id": "5318a13e480b07a76f3b2831"
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        {
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            "reason": "Limit invalid or below 1.",
            "_id": "5318a13e480b07a76f3b2830"
        },
        {
            "code": 409,
            "reason": "Invalid or unrecognized parameter.",
            "_id": "5318a13e480b07a76f3b282f"
        },
        {
            "code": 409,
            "reason": "Empty parameter.",
            "_id": "5318a13e480b07a76f3b282e"
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            "reason": "Invalid or unrecognized ordering parameter.",
            "_id": "5318a13e480b07a76f3b282d"
        },
        {
            "code": 409,
            "reason": "Too many values sent to a multi-value list filter.",
            "_id": "5318a13e480b07a76f3b282c"
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        {
            "code": 409,
            "reason": "Invalid value passed to filter.",
            "_id": "5318a13e480b07a76f3b282b"
        }
    ],
    "parameters": [
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            "name": "creatorId",
            "description": "The creator ID."
        }
    ]
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"paramType": "path",
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"allowMultiple": false,
"required": true
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"name": "name",
"description": "Filter the event list by name.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2829",
"allowMultiple": false,
"required": false
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{
"name": "nameStartsWith",
"description": "Return events with names that begin with the specified string (e.g. Sp).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2828",
"allowMultiple": false,
"required": false
},
{
"name": "modifiedSince",
"description": "Return only events which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2827",
"allowMultiple": false,
"required": false
},
{
"name": "characters",
"description": "Return only events which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2826",
"allowMultiple": true,
"required": false
},
{
"name": "series",
"description": "Return only events which are part of the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2825",
"allowMultiple": false,
"required": false
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"_id": "5318a13e480b07a76f3b2825",
"allowMultiple": true,
"required": false
},

{
"name": "comics",
"description": "Return only events which take place in the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2824",
"allowMultiple": true,
"required": false
},

{
"name": "stories",
"description": "Return only events which contain the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2823",
"allowMultiple": true,
"required": false
},

{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
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"paramType": "query",
"_id": "5318a13e480b07a76f3b2821",
"allowableValues": {
"valueType": "LIST",
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"modified",
"-name",
"-startDate",
"-modified"
]
},
"allowMultiple": true,
"required": false
},


"name": "limit",
"description": "Limit the result set to the specified number of resources.",
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"paramType": "query",
"_id": "5318a13e480b07a76f3b281f",
"allowableValues": {
  "min": 1,
  "max": 100,
  "valueType": "RANGE",
  "_id": "5318a13e480b07a76f3b2820",
  "values": []
},
"allowMultiple": false,
"required": false
},
{
  "name": "offset",
  "description": "Skip the specified number of resources in the result set.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b281e",
  "allowMultiple": false,
  "required": false
}
],
"summary": "Fetches lists of events filtered by a creator id."
}
,

"path": "/v1/public/creators/{creatorId}/series",
"description": "",
"operations": [
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    "nickname": "getCreatorSeriesCollection",
    "responseClass": "SeriesDataWrapper",
    "notes": "Fetches lists of comic series in which a specific creator's work appears, with optional filters. See notes on individual parameters below.",
    "_id": "5318a13f480b07a76f3b2a89",
    "errorResponses": [
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        "reason": "Limit greater than 100.",
        "_id": "5318a13f480b07a76f3b2aa2"
      }
    ],
    "code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b2aa1"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2aa0"
},
{
"code": 409,
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"_id": "5318a13f480b07a76f3b2a9f"
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"_id": "5318a13f480b07a76f3b2a9e"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b2a9d"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2a9c"
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"description": "The creator ID.",
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"paramType": "path",
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"allowMultiple": false,
"required": true
},
{
"name": "title",
"description": "Filter by series title.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a9a",
"allowMultiple": false,
"required": false
}].
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<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
<th>Type</th>
<th>ID</th>
<th>Allow Multiple</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>titleStartsWith</td>
<td>Return series with titles that begin with the specified string (e.g. Sp).</td>
<td>string</td>
<td>5318a13f480b07a76f3b2a99</td>
<td>false</td>
<td>false</td>
</tr>
<tr>
<td>startYear</td>
<td>Return only series matching the specified start year.</td>
<td>int</td>
<td>5318a13f480b07a76f3b2a98</td>
<td>false</td>
<td>false</td>
</tr>
<tr>
<td>modifiedSince</td>
<td>Return only series which have been modified since the specified date.</td>
<td>Date</td>
<td>5318a13f480b07a76f3b2a97</td>
<td>false</td>
<td>false</td>
</tr>
<tr>
<td>comics</td>
<td>Return only series which contain the specified comics (accepts a comma-separated list of ids).</td>
<td>int</td>
<td>5318a13f480b07a76f3b2a96</td>
<td>true</td>
<td>false</td>
</tr>
<tr>
<td>stories</td>
<td>Return only series which contain the specified stories (accepts a comma-separated list of ids).</td>
<td>int</td>
<td>5318a13f480b07a76f3b2a95</td>
<td>true</td>
<td>false</td>
</tr>
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"one shot",
"limited",
"ongoing"
]
},
"allowMultiple": false,
"required": false
},
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"name": "contains",
"description": "Return only series containing one or more comics with the specified format.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a8f",
"allowableValues": {
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"_id": "5318a13f480b07a76f3b2a90",
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"digital comic",
"infinite comic"
],
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "," to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a8d",
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"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2a8e",
"values": [
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"modified",
"startYear",
"-title",
"-modified",
"-startYear"
]
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"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
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"paramType": "query",
"_id": "5318a13f480b07a76f3b2a8b",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
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"values": []
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"allowMultiple": false,
"required": false
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"description": "Skip the specified number of resources in the result set.",
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"paramType": "query",
"_id": "5318a13f480b07a76f3b2a8a",
"allowMultiple": false,
"required": false
}
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"summary": "Fetches lists of series filtered by a creator id."
}
],
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"path": "/v1/public/creators/{creatorId}/stories",
"description": "",
"operations": [
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"httpMethod": "GET",
"nickname": "getCreatorStoryCollection",
"responseClass": "StoryDataWrapper",
"notes": "Fetches lists of comic stories by a specific creator with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b2a74",
"errorResponses": [
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{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b2a85"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2a84"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b2a83"
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"_id": "5318a13f480b07a76f3b2a82"
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"_id": "5318a13f480b07a76f3b2a81"
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"paramType": "path",
"_id": "5318a13f480b07a76f3b2a7f",
"allowMultiple": false,
"required": true
},
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"name": "modifiedSince",
"description": "Return only stories which have been modified since the specified date.,”,
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a7e",
"allowMultiple": false,
"required": false
},
{
"name": "comics",
"description": "Return only stories contained in the specified comics (accepts a comma-separated list of
ids).,”,
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a7d",
"allowMultiple": true,
"required": false
},
{
"name": "series",
"description": "Return only stories contained the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a7c",
"allowMultiple": true,
"required": false
},
{
  "name": "events",
  "description": "Return only stories which take place during the specified events (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2a7b",
  "allowMultiple": true,
  "required": false
},
{
  "name": "characters",
  "description": "Return only stories which feature the specified characters (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2a7a",
  "allowMultiple": true,
  "required": false
},
{
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a `\-` to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2a78",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b2a79",
    "values": [
      "id",
      "modified",
      "-id",
      "-modified"
    ]
  },
  "allowMultiple": true,
  "required": false
}
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a76",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2a77",
"values": []
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a75",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of stories filtered by a creator id."
}
]

{
"path": "/v1/public/events",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getEventsCollection",
"responseClass": "EventDataWrapper",
"notes": "Fetches lists of events with optional filters. See notes on individual parameters below.",
"_id": "5318a13e480b07a76f3b27e1",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b27e3"
}
],
"code": 409,
"reason": "Limit invalid or below 1.",
"name": "modifiedSince",
"description": "Return only events which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27da",
"allowMultiple": false,
"required": false
},
{
"name": "creators",
"description": "Return only events which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27d9",
"allowMultiple": true,
"required": false
},
{
"name": "characters",
"description": "Return only events which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27d8",
"allowMultiple": true,
"required": false
},
{
"name": "series",
"description": "Return only events which are part of the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27d7",
"allowMultiple": true,
"required": false
},
{
"name": "comics",
"description": "Return only events which take place in the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27d6",
"allowMultiple": true,
"required": false
}.
{  
"name": "stories",  
"description": "Return only events which take place in the specified stories (accepts a comma-separated list of ids). ",  
"dataType": "int",  
"paramType": "query",  
"_id": "5318a13e480b07a76f3b27d5",  
"allowMultiple": true,  
"required": false  
},  
{   
"name": "orderBy",  
"description": "Order the result set by a field or fields. Add a \"\-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed. ",  
"dataType": "string",  
"paramType": "query",  
"_id": "5318a13e480b07a76f3b27d3",  
"allowableValues": {  
"valueType": "LIST",  
"_id": "5318a13e480b07a76f3b27d4",  
"values": [  
"name",  
"startDate",  
"modified",  
"-name",  
"-startDate",  
"-modified"  
]  
},  
"allowMultiple": true,  
"required": false  
},  
{   
"name": "limit",  
"description": "Limit the result set to the specified number of resources. ",  
"dataType": "int",  
"paramType": "query",  
"_id": "5318a13e480b07a76f3b27d1",  
"allowableValues": {  
"min": 1,  
"max": 100,  
"valueType": "RANGE",  
"_id": "5318a13e480b07a76f3b27d2",  
"values": []  
},  
"allowMultiple": false,  
"required": false  
}.
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27d0",
"allowMultiple": false,
"required": false
}
]},
"summary": "Fetches lists of events."
}
]
",
"path": "/v1/public/events/{eventId}",
"description": "",
"operations": [
[
"httpMethod": "GET",
"nickname": "getEventIndividual",
"responseClass": "EventDataWrapper",
"notes": "This method fetches a single event resource. It is the canonical URI for any event resource provided by the API."
",
"_id": "5318a13e480b07a76f3b27a9",
"errorResponses": [
[
"code": 404,
"reason": "Event not found."
",
"_id": "5318a13e480b07a76f3b27ab"
]
],
"parameters": [
[
"name": "eventId",
"description": "A single event.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b27aa",
"allowMultiple": false,
"required": true
]
],
"summary": "Fetches a single event by id."
]
]
"path": "/v1/public/events/{eventId}/characters",
"description": "",
"operations": [
{
  "httpMethod": "GET",
  "nickname": "getEventCharacterCollection",
  "responseClass": "CharacterDataWrapper",
  "notes": "Fetches lists of characters which appear in a specific event, with optional filters. See notes on individual parameters below.",
  ",
  ",
  _id": "5318a13f480b07a76f3b29d2",
  "errorResponses": [
    {
      "code": 409,
      "reason": "Limit greater than 100.",
      "_id": "5318a13f480b07a76f3b29e5"
    },
    {
      "code": 409,
      "reason": "Limit invalid or below 1.",
      "_id": "5318a13f480b07a76f3b29e4"
    },
    {
      "code": 409,
      "reason": "Invalid or unrecognized parameter.",
      "_id": "5318a13f480b07a76f3b29e3"
    },
    {
      "code": 409,
      "reason": "Empty parameter.",
      "_id": "5318a13f480b07a76f3b29e2"
    },
    {
      "code": 409,
      "reason": "Invalid or unrecognized ordering parameter.",
      "_id": "5318a13f480b07a76f3b29e1"
    },
    {
      "code": 409,
      "reason": "Too many values sent to a multi-value list filter.",
      "_id": "5318a13f480b07a76f3b29e0"
    },
    {
      "code": 409,
      "reason": "Invalid value passed to filter.",
      "_id": "5318a13f480b07a76f3b29df"
    }
  ],
  "parameters": [
{
  "name": "eventId",
  "description": "The event ID",
  "dataType": "int",
  "paramType": "path",
  "_id": "5318a13f480b07a76f3b29de",
  "allowMultiple": false,
  "required": true
},
{
  "name": "name",
  "description": "Return only characters matching the specified full character name (e.g. Spider-Man).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29dd",
  "allowMultiple": false,
  "required": false
},
{
  "name": "nameStartsWith",
  "description": "Return characters with names that begin with the specified string (e.g. Sp).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29dc",
  "allowMultiple": false,
  "required": false
},
{
  "name": "modifiedSince",
  "description": "Return only characters which have been modified since the specified date.",
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29db",
  "allowMultiple": false,
  "required": false
},
{
  "name": "comics",
  "description": "Return only characters which appear in the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29da",
  "allowMultiple": true,
  "required": false
},
{
  "name": "series"}
"description": "Return only characters which appear the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29d9",
"allowMultiple": true,
"required": false
},
{
"name": "stories",
"description": "Return only characters which appear the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29d8",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed."
,"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29d6",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b29d7",
"values": [
"name",
"modified",
"-name",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources."
,"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29d4",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE"
"_id": "5318a13f480b07a76f3b29d5",
"values": [],
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set."
},
"summary": "Fetches lists of characters filtered by an event id."
},
{
"path": "/v1/public/events/{eventId}/comics",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicsCollection",
"responseClass": "ComicDataWrapper",
"notes": "Fetches lists of comics which take place during a specific event, with optional filters. See notes on individual parameters below."
},
"_id": "5318a13f480b07a76f3b2aa5",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13f480b07a76f3b2ac4"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b2ac9"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2ac9"
}
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b2ac8"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b2ac7"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b2ac6"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2ac5"
}
],
"parameters": [
{
"name": "eventId",
"description": "The event id.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2ac4",
"allowMultiple": false,
"required": true
},
{
"name": "format",
"description": "Filter by the issue format (e.g. comic, digital comic, hardcover).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ac2",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2ac3",
"values": [
"comic",
"magazine",
"trade paperback",
"hardcover",
"digest",
"graphic novel",
"digital comic",
"infinite comic"
]}
}
"lastWeek",
"thisWeek",
"nextWeek",
"thisMonth"
]}
,"allowMultiple": true,
"required": false
},
{
"name": "dateRange",
"description": "Return comics within a predefined date range. Dates must be specified as date1,date2 (e.g. 2013-01-01,2013-01-02). Dates are preferably formatted as YYYY-MM-DD but may be sent as any common date format.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2abb",
"allowMultiple": true,
"required": false
},
{
"name": "diamondCode",
"description": "Filter by diamond code.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2aba",
"allowMultiple": false,
"required": false
},
{
"name": "digitalId",
"description": "Filter by digital comic id.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ab9",
"allowMultiple": false,
"required": false
},
{
"name": "upc",
"description": "Filter by UPC.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ab8",
"allowMultiple": false,
"required": false
},
"allowMultiple": false,
"required": false
},
{
 "name": "creators",
 "description": "Return only comics which feature work by the specified creators (accepts a comma-separated list of ids).",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2ab1",
 "allowMultiple": true,
 "required": false
},
{
 "name": "characters",
 "description": "Return only comics which feature the specified characters (accepts a comma-separated list of ids).",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2ab0",
 "allowMultiple": true,
 "required": false
},
{
 "name": "series",
 "description": "Return only comics which are part of the specified series (accepts a comma-separated list of ids).",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2aaf",
 "allowMultiple": true,
 "required": false
},
{
 "name": "events",
 "description": "Return only comics which take place in the specified events (accepts a comma-separated list of ids).",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2aaf",
 "allowMultiple": true,
 "required": false
},
{
 "name": "stories",
 "description": "Return only comics which contain the specified stories (accepts a comma-separated list of ids).",
 "dataType": "int"
"name": "paramType", "paramType": "query",
"_id": "5318a13f480b07a76f3b2aad",
"allowMultiple": true,
"required": false
},
{
"name": "sharedAppearances",
"description": "Return only comics in which the specified characters appear together (for example in which BOTH Spider-Man and Wolverine appear).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2aue",
"allowMultiple": true,
"required": false
},
{
"name": "collaborators",
"description": "Return only comics in which the specified creators worked together (for example in which BOTH Stan Lee and Jack Kirby did work).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2aab",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2aa9",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2aaa",
"values": [
"focDate",
"onsaleDate",
"title",
"issueNumber",
"modified",
"-focDate",
"-onsaleDate",
"-title",
"-issueNumber",
"-modified"
]}
}
"allowMultiple": true,
"required": false
},
{
 "name": "limit",
 "description": "Limit the result set to the specified number of resources.",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2aa7",
 "allowableValues": {
 "min": 1,
 "max": 100,
 "valueType": "RANGE",
 "_id": "5318a13f480b07a76f3b2aa8",
 "values": []
 },
 "allowMultiple": false,
 "required": false
},
{
 "name": "offset",
 "description": "Skip the specified number of resources in the result set.",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2aa6",
 "allowMultiple": false,
 "required": false
}
],
"summary": "Fetches lists of comics filtered by an event id."
}
]
},
{
 "path": "/v1/public/events/{eventId}/creators",
 "description": "",
 "operations": [
 {
 "httpMethod": "GET",
 "nickname": "getCreatorCollection",
 "responseClass": "CreatorDataWrapper",
 "notes": "Fetches lists of comic creators whose work appears in a specific event, with optional filters. See notes on individual parameters below."
 },
 "_id": "5318a13f480b07a76f3b296e",
 "errorResponses": [
 {
 "code": 409,
 "reason": "Limit greater than 100.",
}
"_id": "5318a13f480b07a76f3b2987"
],
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b2986"
],
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2985"
],
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b2984"
],
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b2983"
],
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b2982"
],
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2981"
}
].
"parameters": [
{
"name": "eventId",
"description": "The event ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2980",
"allowMultiple": false,
"required": true
}
]
{
"name": "firstName",
"description": "Filter by creator first name (e.g. brian).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2987"}
],
{
    "name": "middleNameStartsWith",
    "description": "Filter by creator middle names that match criteria (e.g. Mi).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2979",
    "allowMultiple": false,
    "required": false
},
{
    "name": "lastNameStartsWith",
    "description": "Filter by creator last names that match criteria (e.g. Ben).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2978",
    "allowMultiple": false,
    "required": false
},
{
    "name": "modifiedSince",
    "description": "Return only creators which have been modified since the specified date.",
    "dataType": "Date",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2977",
    "allowMultiple": false,
    "required": false
},
{
    "name": "comics",
    "description": "Return only creators who worked on in the specified comics (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2976",
    "allowMultiple": true,
    "required": false
},
{
    "name": "series",
    "description": "Return only creators who worked on the specified series (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2975",
    "allowMultiple": true,
    "required": false
}]}
"stories": 
"description": "Return only creators who worked on the specified stories (accepts a comma-separated list of ids). 
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2974",
"allowMultiple": true,
"required": false
}.

"orderBy": 
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed. 
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2972",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2973",
"values": [
"lastName",
"firstName",
"middleName",
"suffix",
"modified",
"-lastName",
"-firstName",
"-middleName",
"-suffix",
"-modified"
]
",
"allowMultiple": true,
"required": false
}.

"limit": 
"description": "Limit the result set to the specified number of resources.
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2970",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2971",
"values": []}
"allowMultiple": false,
"required": false
],
[
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b296f",
"allowMultiple": false,
"required": false
]
],
"summary": "Fetches lists of creators filtered by an event id."
}
]
}
{
"path": "/v1/public/events/{eventId}/series",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getEventSeriesCollection",
"responseClass": "SeriesDataWrapper",
"notes": "Fetches lists of comic series in which a specific event takes place, with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b29b6",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13f480b07a76f3b29cf"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b29ce"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b29cd"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b29cc"
],
[
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b29cb"
],
[
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b29ca"
],
[
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b29c9"
]
].
"parameters": [
{
"name": "eventId",
"description": "The event ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b29c8",
"allowMultiple": false,
"required": true
},
{
"name": "title",
"description": "Filter by series title.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29c7",
"allowMultiple": false,
"required": false
},
{
"name": "titleStartsWith",
"description": "Return series with titles that begin with the specified string (e.g. Sp).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29c6",
"allowMultiple": false,
"required": false
},
{
"name": "startYear"
"description": "Return only series matching the specified start year.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b29c5",
"allowMultiple": false,
"required": false
},
{
  "name": "modifiedSince",
  "description": "Return only series which have been modified since the specified date.",
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29c4",
  "allowMultiple": false,
  "required": false
},
{
  "name": "comics",
  "description": "Return only series which contain the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29c3",
  "allowMultiple": true,
  "required": false
},
{
  "name": "stories",
  "description": "Return only series which contain the specified stories (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29c2",
  "allowMultiple": true,
  "required": false
},
{
  "name": "creators",
  "description": "Return only series which feature work by the specified creators (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29c1",
  "allowMultiple": true,
  "required": false
},
{
  "name": "characters"}
"description": "Return only series which feature the specified characters (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29c0",
  "allowMultiple": true,
  "required": false
},
{
  "name": "seriesType",
  "description": "Filter the series by publication frequency type.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29be",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b29bf",
    "values": [
      "collection",
      "one shot",
      "limited",
      "ongoing"
    ],
    "allowMultiple": false,
    "required": false
  },
{
  "name": "contains",
  "description": "Return only series containing one or more comics with the specified format.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b29bc",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b29bd",
    "values": [
      "comic",
      "magazine",
      "trade paperback",
      "hardcover",
      "digest",
      "graphic novel",
      "digital comic",
      "infinite comic"
    ],
    "allowMultiple": true,
"required": false
},

{
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f4f80b07a76f3b29ba",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f4f80b07a76f3b29bb",
    "values": [
      "title",
      "modified",
      "startYear",
      "-title",
      "-modified",
      "-startYear"
    ]
  },
  "allowMultiple": true,
  "required": false
},

{
  "name": "limit",
  "description": "Limit the result set to the specified number of resources.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f4f80b07a76f3b29b8",
  "allowableValues": {
    "min": 1,
    "max": 100,
    "valueType": "RANGE",
    "_id": "5318a13f4f80b07a76f3b29b9",
    "values": []
  },
  "allowMultiple": false,
  "required": false
},

{
  "name": "offset",
  "description": "Skip the specified number of resources in the result set."
}
"summary": "Fetches lists of series filtered by an event id."
}
]
]
"path": "/v1/public/events/{eventId}/stories",
"operations": [
{
"httpMethod": "GET",
"nickname": "getEventStoryCollection",
"responseClass": "StoryDataWrapper",
"notes": "Fetches lists of comic stories from a specific event, with optional filters. See notes on individual parameters below."
,
"_id": "5318a13f480b07a76f3b2a20",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100."
,
"_id": "5318a13f480b07a76f3b2a32"
},
{
"code": 409,
"reason": "Limit invalid or below 1."
,
"_id": "5318a13f480b07a76f3b2a31"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter."
,
"_id": "5318a13f480b07a76f3b2a30"
},
{
"code": 409,
"reason": "Empty parameter."
,
"_id": "5318a13f480b07a76f3b2a2f"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter."
,
"_id": "5318a13f480b07a76f3b2a2e"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter."
,
"_id": "5318a13f480b07a76f3b2a2d"}
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2a2c"
}
],
"parameters": [
{
"name": "eventId",
"description": "The ID of the event.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2a2b",
"allowMultiple": false,
"required": true
},
{
"name": "modifiedSince",
"description": "Return only stories which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a2a",
"allowMultiple": false,
"required": false
},
{
"name": "comics",
"description": "Return only stories contained in the specified (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a29",
"allowMultiple": true,
"required": false
},
{
"name": "series",
"description": "Return only stories contained the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a28",
"allowMultiple": true,
"required": false
},
{
"name": "creators",
"description": "Return only stories which feature work by the specified creators (accepts a comma-separated
list of ids).",
"dataType": "int",

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"paramType": "query",
"_id": "5318a13f480b07a76f3b2a27",
"allowMultiple": true,
"required": false
},
{
"name": "characters",
"description": "Return only stories which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a26",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a24",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2a25",
"values": [
"id",
"modified",
"-id",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.\",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a22",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2a23",
"values": []
}
"allowMultiple": false,
"required": false
},
{
 "name": "offset",
 "description": "Skip the specified number of resources in the result set.",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2a21",
 "allowMultiple": false,
 "required": false
}
],
"summary": "Fetches lists of stories filtered by an event id."
}
],
{
 "path": "/v1/public/series",
 "description": "",
 "operations": [
{
 "httpMethod": "GET",
 "nickname": "getSeriesCollection",
 "responseClass": "SeriesDataWrapper",
 "notes": "Fetches lists of comic series with optional filters. See notes on individual parameters below.",
 "_id": "5318a13e480b07a76f3b27b3",
 "errorResponses": [
 {
 "code": 409,
 "reason": "Limit greater than 100.",
 "_id": "5318a13e480b07a76f3b27cc"
 },
 {"code": 409,
 "reason": "Limit invalid or below 1.",
 "_id": "5318a13e480b07a76f3b27cb"
 },
 {"code": 409,
 "reason": "Invalid or unrecognized parameter.",
 "_id": "5318a13e480b07a76f3b27ca"
 },
 {"code": 409,
 "reason": "Empty parameter.",
 "_id": "5318a13e480b07a76f3b27c9"}.
}
"paramType": "query",
"_id": "5318a13e480b07a76f3b27c2",
"allowMultiple": false,
"required": false
},

{ "name": "comics",
"description": "Return only series which contain the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27c1",
"allowMultiple": true,
"required": false
},

{ "name": "stories",
"description": "Return only series which contain the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27c0",
"allowMultiple": true,
"required": false
},

{ "name": "events",
"description": "Return only series which have comics that take place during the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27bf",
"allowMultiple": true,
"required": false
},

{ "name": "creators",
"description": "Return only series which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27be",
"allowMultiple": true,
"required": false
},

{ "name": "characters",
"description": "Return only series which feature the specified characters (accepts a comma-separated list of
ids).

{  
  
  "name": "seriesType",
  "description": "Filter the series by publication frequency type.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b27bb",
  "allowableValues": { 
    "valueType": "LIST",
    "_id": "5318a13e480b07a76f3b27bc",
    "values": [ 
      "collection",
      "one shot",
      "limited",
      "ongoing"
    ]
  },
  "allowMultiple": false,
  "required": false
},

{  
  "name": "contains",
  "description": "Return only series containing one or more comics with the specified format.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b27b9",
  "allowableValues": { 
    "valueType": "LIST",
    "_id": "5318a13e480b07a76f3b27ba",
    "values": [ 
      "comic",
      "magazine",
      "trade paperback",
      "hardcover",
      "digest",
      "graphic novel",
      "digital comic",
      "infinite comic"
    ]
  },
  "allowMultiple": true,
  "required": false
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a '-' to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27b7",
"allowableValues": {
  "valueType": "LIST",
  "_id": "5318a13e480b07a76f3b27b8",
  "values": [
    "title",
    "modified",
    "startYear",
    "-title",
    "-modified",
    "-startYear"
  ]
},
"allowMultiple": true,
"required": false
},

{ "name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27b5",
"allowableValues": {
  "min": 1,
  "max": 100,
  "valueType": "RANGE",
  "_id": "5318a13e480b07a76f3b27b6",
  "values": []
},
"allowMultiple": false,
"required": false
},

{ "name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b27b4",
"allowMultiple": false,
"required": false
}
"summary": "Fetches lists of series."
}
]
],
{
"path": "/v1/public/series/{seriesId}"
,"description": ",
","operations": [
{
"httpMethod": "GET",
"nickname": "getSeriesIndividual",
"responseClass": "SeriesDataWrapper",
"notes": "This method fetches a single comic series resource. It is the canonical URI for any comic series resource provided by the API.
",
"_id": "5318a13e480b07a76f3b2834",
"errorResponses": [
{
"code": 404,
"reason": "Series not found.",
"_id": "5318a13e480b07a76f3b2836"
}
],
"parameters": [
{
"name": "seriesId",
"description": "Filter by series title.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b2835",
"allowMultiple": false,
"required": true
}
],
"summary": "Fetches a single comic series by id."
}
]
],
{
"path": "/v1/public/series/{seriesId}/characters",
"description": ",
","operations": [
{
"httpMethod": "GET",
"nickname": "getSeriesCharacterWrapper",
"responseClass": "CharacterDataWrapper",
"notes": "Fetches lists of characters which appear in specific series, with optional filters. See notes on individual parameters below."
}
"_id": "5318a13e480b07a76f3b2839",
"errorResponses": [
  {
    "code": 409,
    "reason": "Limit greater than 100.",
    "_id": "5318a13e480b07a76f3b284c"
  },
  {
    "code": 409,
    "reason": "Limit invalid or below 1.",
    "_id": "5318a13e480b07a76f3b284b"
  },
  {
    "code": 409,
    "reason": "Invalid or unrecognized parameter.",
    "_id": "5318a13e480b07a76f3b284a"
  },
  {
    "code": 409,
    "reason": "Empty parameter.",
    "_id": "5318a13e480b07a76f3b2849"
  },
  {
    "code": 409,
    "reason": "Invalid or unrecognized ordering parameter.",
    "_id": "5318a13e480b07a76f3b2848"
  },
  {
    "code": 409,
    "reason": "Too many values sent to a multi-value list filter.",
    "_id": "5318a13e480b07a76f3b2847"
  },
  {
    "code": 409,
    "reason": "Invalid value passed to filter.",
    "_id": "5318a13e480b07a76f3b2846"
  }
],
"parameters": [
  {
    "name": "seriesId",
    "description": "The series id.",
    "dataType": "int",
    "paramType": "path",
    "_id": "5318a13e480b07a76f3b2845",
    "allowMultiple": false,
    "required": true
  }
]
"name": "stories",
"description": "Return only characters which appear the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b283f",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b283d",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13e480b07a76f3b283e",
"values": [
"name",
"modified",
"-name",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.\",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b283b",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b283c",
"values": []
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.\"
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2b3a",
"allowMultiple": false,
"required": false
"
]",
"summary": "Fetches lists of characters filtered by a series id."
"
"
]
}

"path": "/v1/public/series/{seriesId}/comics",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicsCollection",
"responseClass": "ComicDataWrapper",
"notes": "Fetches lists of comics which are published as part of a specific series, with optional filters. See notes on individual parameters below."
",
"_id": "5318a13f480b07a76f3b2af6",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100."
",
"_id": "5318a13f480b07a76f3b2b1b"
}
{
"code": 409,
"reason": "Limit invalid or below 1."
",
"_id": "5318a13f480b07a76f3b2b1a"
}
{
"code": 409,
"reason": "Invalid or unrecognized parameter."
",
"_id": "5318a13f480b07a76f3b2b19"
}
{
"code": 409,
"reason": "Empty parameter."
",
"_id": "5318a13f480b07a76f3b2b18"
}
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter."
",
"_id": "5318a13f480b07a76f3b2b17"
}
{ "code": 409, "reason": "Too many values sent to a multi-value list filter.", "_id": "5318a13f480b07a76f3b2b16" }

{ "code": 409, "reason": "Invalid value passed to filter.", "_id": "5318a13f480b07a76f3b2b15" }

"parameters": [ { "name": "seriesId", "description": "The series ID.", "dataType": "int", "paramType": "path", "_id": "5318a13f480b07a76f3b2b14", "allowMultiple": false, "required": true } ],

{ "name": "format", "description": "Filter by the issue format (e.g. comic, digital comic, hardcover).", "dataType": "string", "paramType": "query", "_id": "5318a13f480b07a76f3b2b12", "allowableValues": { "valueType": "LIST", "_id": "5318a13f480b07a76f3b2b13", "values": [ "comic", "magazine", "trade paperback", "hardcover", "digest", "graphic novel", "digital comic", "infinite comic" ] }, "allowMultiple": false, "required": false },

{ "name": "formatType", "description": "Filter by the issue format type (comic or collection).", "dataType": "string" }
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b10",
"allowableValues": {
  "valueType": "LIST",
  "_id": "5318a13f480b07a76f3b2b11",
  "values": [
    "comic",
    "collection"
  ]
},
"allowMultiple": false,
"required": false
},

{
  "name": "noVariants",
  "description": "Exclude variant comics from the result set.",
  "dataType": "boolean",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2b0e",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b2b0f",
    "values": [
      "true"
    ]
  },
  "allowMultiple": true,
  "required": false
}

{
  "name": "dateDescriptor",
  "description": "Return comics within a predefined date range.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2b0c",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b2b0d",
    "values": [
      "lastWeek",
      "thisWeek",
      "nextWeek",
      "thisMonth"
    ]
  },
  "allowMultiple": true,
  "required": false
}
{
"name": "dateRange",
"description": "Return comics within a predefined date range. Dates must be specified as date1,date2 (e.g.
2013-01-01,2013-01-02). Dates are preferably formatted as YYYY-MM-DD but may be sent as any common date
format.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b0b",
"allowMultiple": true,
"required": false
},
{
"name": "diamondCode",
"description": "Filter by diamond code.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b0a",
"allowMultiple": false,
"required": false
},
{
"name": "digitalId",
"description": "Filter by digital comic id.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b09",
"allowMultiple": false,
"required": false
},
{
"name": "upc",
"description": "Filter by UPC.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b08",
"allowMultiple": false,
"required": false
},
{
"name": "isbn",
"description": "Filter by ISBN.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b07",
"allowMultiple": false,
"required": false
},
{

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"name": "ean",
"description": "Filter by EAN.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b06",
"allowMultiple": false,
"required": false
},

{
"name": "issn",
"description": "Filter by ISSN.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b05",
"allowMultiple": false,
"required": false
},

{
"name": "hasDigitalIssue",
"description": "Include only results which are available digitally.",
"dataType": "boolean",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b03",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2b04",
"values": [
"true"
]
},
"allowMultiple": true,
"required": false
},

{
"name": "modifiedSince",
"description": "Return only comics which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b02",
"allowMultiple": false,
"required": false
},

{
"name": "creators",
"description": "Return only comics which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b01"}
"_id": "5318a13f480b07a76f3b2b01",
"allowMultiple": true,
"required": false
},

} {
"name": "characters",
"description": "Return only comics which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2b00",
"allowMultiple": true,
"required": false
},

} {
"name": "events",
"description": "Return only comics which take place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2afl",
"allowMultiple": true,
"required": false
},

} {
"name": "stories",
"description": "Return only comics which contain the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2afe",
"allowMultiple": true,
"required": false
},

} {
"name": "sharedAppearances",
"description": "Return only comics in which the specified characters appear together (for example in which BOTH Spider-Man and Wolverine appear).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2af",
"allowMultiple": true,
"required": false
},

} {
"name": "collaborators",
"description": "Return only comics in which the specified creators worked together (for example in which BOTH Stan Lee and Jack Kirby did work).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2afd",
"allowMultiple": true,
"required": false
}
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2afe",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2afa",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2af8",
"values": [
"focDate",
"onsaleDate",
"title",
"issueNumber",
"modified",
"-focDate",
"-onsaleDate",
"-title",
"-issueNumber",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2af8",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2af8",
"values": []
},
"allowMultiple": false,
"required": false
}
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2af7",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of comics filtered by a series id."
}
]
},
{
"path": "/v1/public/series/{seriesId}/creators",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getCreatorCollection",
"responseClass": "CreatorDataWrapper",
"notes": "Fetches lists of comic creators whose work appears in a specific series, with optional filters. See
notes on individual parameters below.",
"_id": "5318a13e480b07a76f3b2865",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b287e"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b287d"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b287c"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b287b"
},
{
"code": 409,

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"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13e480b07a76f3b287a"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13e480b07a76f3b2879"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13e480b07a76f3b2878"
}
],
"parameters": [
{
"name": "seriesId",
"description": "The series ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b2877",
"allowMultiple": false,
"required": true
},
{
"name": "firstName",
"description": "Filter by creator first name (e.g. brian).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2876",
"allowMultiple": false,
"required": false
},
{
"name": "middleName",
"description": "Filter by creator middle name (e.g. Michael).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2875",
"allowMultiple": false,
"required": false
},
{
"name": "lastName",
"description": "Filter by creator last name (e.g. Bendis).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2874",
"allowMultiple": false,
"required": false
}
"allowMultiple": false,
"required": false
},
{
  "name": "suffix",
  "description": "Filter by suffix or honorific (e.g. Jr., Sr.).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2873",
  "allowMultiple": false,
  "required": false
},
{
  "name": "nameStartsWith",
  "description": "Filter by creator names that match criteria (e.g. B, St L.).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2872",
  "allowMultiple": false,
  "required": false
},
{
  "name": "firstNameStartsWith",
  "description": "Filter by creator first names that match criteria (e.g. B, St L.).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2871",
  "allowMultiple": false,
  "required": false
},
{
  "name": "middleNameStartsWith",
  "description": "Filter by creator middle names that match criteria (e.g. Mi.).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2870",
  "allowMultiple": false,
  "required": false
},
{
  "name": "lastNameStartsWith",
  "description": "Filter by creator last names that match criteria (e.g. Ben.).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b286f",
  "allowMultiple": false,
  "required": false
}.
[{
    "name": "modifiedSince",
    "description": "Return only creators which have been modified since the specified date.",
    "dataType": "Date",
    "paramType": "query",
    "$id": "5318a13e480b07a76f3b286e",
    "allowMultiple": false,
    "required": false
},
{
    "name": "comics",
    "description": "Return only creators who worked on in the specified comics (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "$id": "5318a13e480b07a76f3b286d",
    "allowMultiple": true,
    "required": false
},
{
    "name": "events",
    "description": "Return only creators who worked on comics that took place in the specified events (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "$id": "5318a13e480b07a76f3b286c",
    "allowMultiple": true,
    "required": false
},
{
    "name": "stories",
    "description": "Return only creators who worked on the specified stories (accepts a comma-separated list of ids).",
    "dataType": "int",
    "paramType": "query",
    "$id": "5318a13e480b07a76f3b286b",
    "allowMultiple": true,
    "required": false
},
{
    "name": "orderBy",
    "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
    "dataType": "string",
    "paramType": "query",
    "$id": "5318a13e480b07a76f3b2869",
    "allowableValues": {
      "valueType": "LIST"}}]
"_id": "5318a13e480b07a76f3b286a",
"values": [
"lastName",
"firstName",
"middleName",
"suffix",
"modified",
"-lastName",
"-firstName",
"-middleName",
"-suffix",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2867",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b2868",
"values": []
},
"allowMultiple": false,
"required": false
},
{
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2866",
"allowMultiple": false,
"required": false
}
,
"summary": "Fetches lists of creators filtered by a series id."}
"path": "/v1/public/series/{seriesId}/events",
"description": "",
"operations": [
{
  "httpMethod": "GET",
  "nickname": "getEventsCollection",
  "responseClass": "EventDataWrapper",
  "notes": "Fetches lists of events which occur in a specific series, with optional filters. See notes on individual parameters below.",
  "_id": "5318a13f480b07a76f3b2a5d",
  "errorResponses": [
    {
      "code": 409,
      "reason": "Limit greater than 100.",
      "_id": "5318a13f480b07a76f3b2a71"
    },
    {
      "code": 409,
      "reason": "Limit invalid or below 1.",
      "_id": "5318a13f480b07a76f3b2a70"
    },
    {
      "code": 409,
      "reason": "Invalid or unrecognized parameter.",
      "_id": "5318a13f480b07a76f3b2a6f"
    },
    {
      "code": 409,
      "reason": "Empty parameter.",
      "_id": "5318a13f480b07a76f3b2a6e"
    },
    {
      "code": 409,
      "reason": "Invalid or unrecognized ordering parameter.",
      "_id": "5318a13f480b07a76f3b2a6d"
    },
    {
      "code": 409,
      "reason": "Too many values sent to a multi-value list filter.",
      "_id": "5318a13f480b07a76f3b2a6c"
    },
    {
      "code": 409,
      "reason": "Invalid value passed to filter.",
      "_id": "5318a13f480b07a76f3b2a6b"
  }
}];
"parameters": [
"description": "Return only events which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a65",
"allowMultiple": true,
"required": false
},
{
"name": "comics",
"description": "Return only events which take place in the specified comics (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a64",
"allowMultiple": true,
"required": false
},
{
"name": "stories",
"description": "Return only events which contain the specified stories (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a63",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"\"-\"\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2a61",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2a62",
"values": [
"name",
"startDate",
"modified",
"-name",
"-startDate",
"-modified"
]
},
"allowMultiple": true,
"required": false
],

{ "name": "limit",
 "description": "Limit the result set to the specified number of resources.",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2a5f",
 "allowableValues": { 
 "min": 1,
 "max": 100,
 "valueType": "RANGE",
 "_id": "5318a13f480b07a76f3b2a60",
 "values": []
 },
 "allowMultiple": false,
 "required": false
 },

{ "name": "offset",
 "description": "Skip the specified number of resources in the result set.",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2a5e",
 "allowMultiple": false,
 "required": false
 }
],

"summary": "Fetches lists of events filtered by a series id."
]
]
},

{ "path": "/v1/public/series/{seriesId}/stories",
 "description": "",
 "operations": [ 
 { "httpMethod": "GET",
 "nickname": "getSeriesStoryCollection",
 "responseClass": "StoryDataWrapper",
 "notes": "Fetches lists of comic stories from a specific series with optional filters. See notes on individual parameters below.",
 "_id": "5318a13e480b07a76f3b2896",
 "errorResponses": [ 
 { "code": 409,
 "reason": "Limit greater than 100.",
 "_id": "5318a13e480b07a76f3b28a8"
{"code": 409, "reason": "Limit invalid or below 1.", "_id": "5318a13e480b07a76f3b28a7" },
{"code": 409, "reason": "Invalid or unrecognized parameter.", "_id": "5318a13e480b07a76f3b28a6" },
{"code": 409, "reason": "Empty parameter.", "_id": "5318a13e480b07a76f3b28a5" },
{"code": 409, "reason": "Invalid or unrecognized ordering parameter.", "_id": "5318a13e480b07a76f3b28a4" },
{"code": 409, "reason": "Too many values sent to a multi-value list filter.", "_id": "5318a13e480b07a76f3b28a3" },
{"code": 409, "reason": "Invalid value passed to filter.", "_id": "5318a13e480b07a76f3b28a2" },parameters: [
{
"name": "seriesId",
"description": "The series ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b28a1",
"allowMultiple": false,
"required": true
},
{
"name": "modifiedSince",
"description": "Return only stories which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28a0"}
"allowMultiple": false,
"required": false
},
{
"name": "comics",
"description": "Return only stories contained in the specified (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b289f",
"allowMultiple": true,
"required": false
},
{
"name": "events",
"description": "Return only stories which take place during the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b289e",
"allowMultiple": true,
"required": false
},
{
"name": "creators",
"description": "Return only stories which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b289d",
"allowMultiple": true,
"required": false
},
{
"name": "characters",
"description": "Return only stories which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b289c",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed."
"dataType": "string",
"paramType": "query"}
"_id": "5318a13e480b07a76f3b289a",
"allowableValues": {
  "valueType": "LIST",
  "_id": "5318a13e480b07a76f3b289b",
  "values": [
    "id",
    "modified",
    "-id",
    "-modified"
  ]
},
"allowMultiple": true,
"required": false
},
{
  "name": "limit",
  "description": "Limit the result set to the specified number of resources."
},
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2898",
"allowableValues": {
  "min": 1,
  "max": 100,
  "valueType": "RANGE",
  "_id": "5318a13e480b07a76f3b2899",
  "values": []
},
"allowMultiple": false,
"required": false
},
{
  "name": "offset",
  "description": "Skip the specified number of resources in the result set."
},
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2897",
"allowMultiple": false,
"required": false
},
"summary": "Fetches lists of stories filtered by a series id."
}]
}


{ "httpMethod": "GET",  
"nickname": "getStoryCollection",    
"responseClass": "StoryDataWrapper", 
"notes": "Fetches lists of comic stories with optional filters. See notes on individual parameters below.", 
"_id": "5318a13e480b07a76f3b2881", 
"errorResponses": [ 
    { "code": 409, 
      "reason": "Limit greater than 100.", 
      "_id": "5318a13e480b07a76f3b2893" }, 
    { "code": 409, 
      "reason": "Limit invalid or below 1.", 
      "_id": "5318a13e480b07a76f3b2892" }, 
    { "code": 409, 
      "reason": "Invalid or unrecognized parameter.", 
      "_id": "5318a13e480b07a76f3b2891" }, 
    { "code": 409, 
      "reason": "Empty parameter.", 
      "_id": "5318a13e480b07a76f3b2890" }, 
    { "code": 409, 
      "reason": "Invalid or unrecognized ordering parameter.", 
      "_id": "5318a13e480b07a76f3b288f" }, 
    { "code": 409, 
      "reason": "Too many values sent to a multi-value list filter.", 
      "_id": "5318a13e480b07a76f3b288e" }, 
    { "code": 409, 
      "reason": "Invalid value passed to filter.", 
      "_id": "5318a13e480b07a76f3b288d" } ], 
"parameters": [ 
    { "name": "modifiedSince", 
      "description": "Return only stories which have been modified since the specified date.", 
      "dataType": "Date" } ]}
"paramType": "query",
"_id": "5318a13e480b07a76f3b288c",
allowMultiple": false,
"required": false
",
{
"name": "comics",
"description": "Return only stories contained in the specified (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b288b",
allowMultiple": true,
"required": false
",
{
"name": "series",
"description": "Return only stories contained the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b288a",
allowMultiple": true,
"required": false
",
{
"name": "events",
"description": "Return only stories which take place during the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2889",
allowMultiple": true,
"required": false
",
{
"name": "creators",
"description": "Return only stories which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2888",
allowMultiple": true,
"required": false
",
{
"name": "characters",
"description": "Return only stories which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2887",
allowMultiple": true,
"required": false
"}
}
"paramType": "query",
"_id": "5318a13e480b07a76f3b2887",
"allowMultiple": true,
"required": false
},

{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2885",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13e480b07a76f3b2886",
"values": [
"id",
"modified",
"-id",
"-modified"
]
},
"allowMultiple": true,
"required": false
},

{
"name": "limit",
"description": "Limit the result set to the specified number of resources.\",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2883",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b2884",
"values": []
},
"allowMultiple": false,
"required": false
},

{
"name": "offset",
"description": "Skip the specified number of resources in the result set.\",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2882",
"allowMultiple": false,
"required": false
],
"summary": "Fetches lists of stories."
]
],
"path": "/v1/public/stories/{storyId}/characters",
"description": "",
"operations": [

{
"httpMethod": "GET",
"nickname": "getCharacters",
"responseClass": "CharacterDataWrapper",
"notes": "This method fetches a single comic story resource. It is the canonical URI for any comic story resource provided by the API.",
"_id": "5318a13f480b07a76f3b2a1d",
"errorResponses": [
{
"code": 404,
"reason": "Story not found.",
"_id": "5318a13f480b07a76f3b2a1b"
}
],
"parameters": [
{
"name": "storyId",
"description": "Filter by story id.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2a1c",
"allowMultiple": false,
"required": true
}
],
"summary": "Fetches a single comic story by id."
]
],
"path": "/v1/public/stories/{storyId}",
"description": "",
"operations": [

{
"httpMethod": "GET",
"nickname": "getStoryIndividual",
"responseClass": "StoryDataWrapper",
"_id": "5318a13f480b07a76f3b2a1b",
"errorResponses": [
{
"code": 404,
"reason": "Story not found.",
"_id": "5318a13f480b07a76f3b2a1d"
}
],
"parameters": [
{
"name": "storyId",
"description": "Filter by story id.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2a1c",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of stories."
]
"notes": "Fetches lists of comic characters appearing in a single story, with optional filters. See notes on individual parameters below. ",
"_id": "5318a13e480b07a76f3b284f",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b2862"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b2861"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b2860"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b285f"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13e480b07a76f3b285e"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13e480b07a76f3b285d"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13e480b07a76f3b285c"
}
]
"parameters": [
{
"name": "storyId",
"description": "The story ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b285b",
"allowMultiple": false,
"required": true
},
{
  "name": "name",
  "description": "Return only characters matching the specified full character name (e.g. Spider-Man).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b285a",
  "allowMultiple": false,
  "required": false
},
{
  "name": "nameStartsWith",
  "description": "Return characters with names that begin with the specified string (e.g. Sp).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2859",
  "allowMultiple": false,
  "required": false
},
{
  "name": "modifiedSince",
  "description": "Return only characters which have been modified since the specified date."
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2858",
  "allowMultiple": false,
  "required": false
},
{
  "name": "comics",
  "description": "Return only characters which appear in the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2857",
  "allowMultiple": true,
  "required": false
},
{
  "name": "series",
  "description": "Return only characters which appear the specified series (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b2856",
  "allowMultiple": true,
  "required": false
}
"name": "events",
"description": "Return only characters which appear in comics that took place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2855",
"allowMultiple": true,
"required": false
},

{ "name": "orderBy",
"description": "Order the result set by a field or fields. Add a "-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2853",
"allowableValues": { 
"valueType": "LIST",
"_id": "5318a13e480b07a76f3b2854",
"values": [
"name",
"modified",
"-name",
"-modified"
]
},
"allowMultiple": true,
"required": false
},

{ "name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2851",
"allowableValues": { 
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13e480b07a76f3b2852",
"values": []
},
"allowMultiple": false,
"required": false
},
"name": "offset",
"description": "Skip the specified number of resources in the result set.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b2850",
"allowMultiple": false,
"required": false
}
],
"summary": "Fetches lists of characters filtered by a story id.
}]
}
{
"path": "/v1/public/stories/{storyId}/comics",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getComicsCollection",
"responseClass": "ComicDataWrapper",
"notes": "Fetches lists of comics in which a specific story appears, with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b2ace",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13f480b07a76f3b2af3"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b2af2"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b2af1"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b2af0"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter."}
"_id": "5318a13f480b07a76f3b2aef"
].
[
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13f480b07a76f3b2ace"
],
[
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13f480b07a76f3b2aed"
]

"parameters": [
  {
    "name": "storyId",
    "description": "The story ID.",
    "dataType": "int",
    "paramType": "path",
    "_id": "5318a13f480b07a76f3b2aeb",
    "allowMultiple": false,
    "required": true
  },

  {
    "name": "format",
    "description": "Filter by the issue format (e.g. comic, digital comic, hardcover).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13f480b07a76f3b2aee",
    "allowableValues": {
      "valueType": "LIST",
      "_id": "5318a13f480b07a76f3b2aef",
      "values": [
        "comic",
        "magazine",
        "trade paperback",
        "hardcover",
        "digest",
        "graphic novel",
        "digital comic",
        "infinite comic"
      ]
    },
    "allowMultiple": false,
    "required": false
  },

  {
    "name": "formatType",
"description": "Filter by the issue format type (comic or collection).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ae8",
"allowableValues": { 
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2ae9",
"values": [
  "comic",
  "collection"
]
},
"allowMultiple": false,
"required": false
},
{
 "name": "noVariants",
 "description": "Exclude variant comics from the result set.",
 "dataType": "boolean",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2ae6",
 "allowableValues": { 
 "valueType": "LIST",
 "_id": "5318a13f480b07a76f3b2ae7",
 "values": [
  "true"
 ]
},
"allowMultiple": true,
"required": false
},
{
 "name": "dateDescriptor",
 "description": "Return comics within a predefined date range.",
 "dataType": "string",
 "paramType": "query",
 "_id": "5318a13f480b07a76f3b2ae4",
 "allowableValues": { 
 "valueType": "LIST",
 "_id": "5318a13f480b07a76f3b2ae5",
 "values": [
  "lastWeek",
  "thisWeek",
  "nextWeek",
  "thisMonth"
 ]
},
"allowMultiple": true,
"required": false
},
{
  "name": "dateRange",
  "description": "Return comics within a predefined date range. Dates must be specified as date1,date2 (e.g. 2013-01-01,2013-01-02). Dates are preferably formatted as YYYY-MM-DD but may be sent as any common date format.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2ae3",
  "allowMultiple": true,
  "required": false
},
{
  "name": "diamondCode",
  "description": "Filter by diamond code.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2ae2",
  "allowMultiple": false,
  "required": false
},
{
  "name": "digitalId",
  "description": "Filter by digital comic id.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2ae1",
  "allowMultiple": false,
  "required": false
},
{
  "name": "upc",
  "description": "Filter by UPC.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2ae0",
  "allowMultiple": false,
  "required": false
},
{
  "name": "isbn",
  "description": "Filter by ISBN.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2adf",
  "allowMultiple": false,
  "required": false


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{
  "name": "ean",
  "description": "Filter by EAN.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2ade",
  "allowMultiple": false,
  "required": false
},
{
  "name": "issn",
  "description": "Filter by ISSN.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2add",
  "allowMultiple": false,
  "required": false
},
{
  "name": "hasDigitalIssue",
  "description": "Include only results which are available digitally.",
  "dataType": "boolean",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2adb",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b2adc",
    "values": [
      "true"
    ]
  },
  "allowMultiple": true,
  "required": false
},
{
  "name": "modifiedSince",
  "description": "Return only comics which have been modified since the specified date.",
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2ada",
  "allowMultiple": false,
  "required": false
},
{
  "name": "creators",
  "description": "Return only comics which feature work by the specified creators (accepts a comma-separated list of ids).",
```
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad9",
"allowMultiple": true,
"required": false
},

{ "name": "characters",
"description": "Return only comics which feature the specified characters (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad8",
"allowMultiple": true,
"required": false
},

{ "name": "series",
"description": "Return only comics which are part of the specified series (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad7",
"allowMultiple": true,
"required": false
},

{ "name": "events",
"description": "Return only comics which take place in the specified events (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad6",
"allowMultiple": true,
"required": false
},

{ "name": "sharedAppearances",
"description": "Return only comics in which the specified characters appear together (for example in which BOTH Spider-Man and Wolverine appear).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad5",
"allowMultiple": true,
"required": false
},

{ "name": "collaborators"}
"description": "Return only comics in which the specified creators worked together (for example in which BOTH Stan Lee and Jack Kirby did work).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad4",
"allowMultiple": true,
"required": false
},
{
"name": "orderBy",
"description": "Order the result set by a field or fields. Add a "\-" to the value sort in descending order. Multiple values are given priority in the order in which they are passed."
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad2",
"allowableValues": {
"valueType": "LIST",
"_id": "5318a13f480b07a76f3b2ad3",
"values": [
"focDate",
"onsaleDate",
"title",
"issueNumber",
"modified",
"-focDate",
"-onsaleDate",
"-title",
"-issueNumber",
"-modified"
]
},
"allowMultiple": true,
"required": false
},
{
"name": "limit",
"description": "Limit the result set to the specified number of resources.",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2ad0",
"allowableValues": {
"min": 1,
"max": 100,
"valueType": "RANGE",
"_id": "5318a13f480b07a76f3b2ad1",
"values": []
}
},
"allowMultiple": false,
"required": false
],
{
"name": "offset",
"description": "Skip the specified number of resources in the result set."
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2acf",
"allowMultiple": false,
"required": false
}
].
"summary": "Fetches lists of comics filtered by a story id."
}
]
{
"path": "/v1/public/stories/{storyId}/creators",
"description": "",
"operations": [
{
"httpMethod": "GET",
"nickname": "getCreatorCollection",
"responseClass": "CreatorDataWrapper",
"notes": "Fetches lists of comic creators whose work appears in a specific story, with optional filters. See notes on individual parameters below.",
"_id": "5318a13e480b07a76f3b28c7",
"errorResponses": [
{
"code": 409,
"reason": "Limit greater than 100."
"_id": "5318a13e480b07a76f3b28e0"
}
{
"code": 409,
"reason": "Limit invalid or below 1."
"_id": "5318a13e480b07a76f3b28df"
}
{
"code": 409,
"reason": "Invalid or unrecognized parameter."
"_id": "5318a13e480b07a76f3b28de"
}
{
"code": 409,
"reason": "Empty parameter."
"_id": "5318a13e480b07a76f3b28dd"
[  
  "code": 409,
  "reason": "Invalid or unrecognized ordering parameter.",
  "_id": "5318a13e480b07a76f3b28dc"
],

[  
  "code": 409,
  "reason": "Too many values sent to a multi-value list filter.",
  "_id": "5318a13e480b07a76f3b28db"
],

[  
  "code": 409,
  "reason": "Invalid value passed to filter.",
  "_id": "5318a13e480b07a76f3b28da"
]

"parameters": [
  
  {  
    "name": "storyId",
    "description": "The story ID.",
    "dataType": "int",
    "paramType": "path",
    "_id": "5318a13e480b07a76f3b28d9",
    "allowMultiple": false,
    "required": true
  },

  {  
    "name": "firstName",
    "description": "Filter by creator first name (e.g. brian).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13e480b07a76f3b28d8",
    "allowMultiple": false,
    "required": false
  },

  {  
    "name": "middleName",
    "description": "Filter by creator middle name (e.g. Michael).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13e480b07a76f3b28d7",
    "allowMultiple": false,
    "required": false
  },

  {  
    "name": "lastName",
    "description": "Filter by creator last name (e.g. Bendis).",
    "dataType": "string",
    "paramType": "query",
    "_id": "5318a13e480b07a76f3b28d6",
    "allowMultiple": false,
    "required": false
  }
]
"paramType": "query",
"_id": "5318a13e480b07a76f3b28d6",
"allowMultiple": false,
"required": false
},

{
"name": "suffix",
"description": "Filter by suffix or honorific (e.g. Jr., Sr.).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28d5",
"allowMultiple": false,
"required": false
},

{
"name": "nameStartsWith",
"description": "Filter by creator names that match criteria (e.g. B, St L).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28d4",
"allowMultiple": false,
"required": false
},

{
"name": "firstNameStartsWith",
"description": "Filter by creator first names that match criteria (e.g. B, St L).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28d3",
"allowMultiple": false,
"required": false
},

{
"name": "middleNameStartsWith",
"description": "Filter by creator middle names that match criteria (e.g. Mi).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28d2",
"allowMultiple": false,
"required": false
},

{
"name": "lastNameStartsWith",
"description": "Filter by creator last names that match criteria (e.g. Ben).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28d1",
"allowMultiple": false,
"required": false
],

[
  "name": "modifiedSince",
  "description": "Return only creators which have been modified since the specified date.",
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28d0",
  "allowMultiple": false,
  "required": false
],

[
  "name": "comics",
  "description": "Return only creators who worked on in the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28cf",
  "allowMultiple": true,
  "required": false
],

[
  "name": "series",
  "description": "Return only creators who worked on the specified series (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28ce",
  "allowMultiple": true,
  "required": false
],

[
  "name": "events",
  "description": "Return only creators who worked on comics that took place in the specified events (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28cd",
  "allowMultiple": true,
  "required": false
],

[
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28cb"
"allowableValues": {
  "valueType": "LIST",
  "_id": "5318a13e480b07a76f3b28cc",
  "values": [
    "lastName",
    "firstName",
    "middleName",
    "suffix",
    "modified",
    "-lastName",
    "-firstName",
    "-middleName",
    "-suffix",
    "-modified"
  ]
},
"allowMultiple": true,
"required": false
},

{ "name": "limit",
  "description": "Limit the result set to the specified number of resources.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28c9",
  "allowableValues": {
    "min": 1,
    "max": 100,
    "valueType": "RANGE",
    "_id": "5318a13e480b07a76f3b28ca",
    "values": []
  },
  "allowMultiple": false,
  "required": false
},

{ "name": "offset",
  "description": "Skip the specified number of resources in the result set.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28c8",
  "allowMultiple": false,
  "required": false
}
],
"summary": "Fetches lists of creators filtered by a story id."}
"path": "/v1/public/stories/{storyId}/events",
"description": "", 
"operations": [

{
"httpMethod": "GET",
"nickname": "getEventsCollection",
"responseClass": "EventDataWrapper",
"notes": "Fetches lists of events in which a specific story appears, with optional filters. See notes on individual parameters below.",
"_id": "5318a13f480b07a76f3b298a",
"errorResponses": [

{
"code": 409,
"reason": "Limit greater than 100.",
"_id": "5318a13f480b07a76f3b299e"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13f480b07a76f3b299d"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13f480b07a76f3b299c"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13f480b07a76f3b299b"
},
{
"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13f480b07a76f3b299a"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13f480b07a76f3b2999"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13f480b07a76f3b2998"
}]}
"parameters": [ 
{ 
"name": "storyId",
"description": "The story ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13f480b07a76f3b2997",
"allowMultiple": false,
"required": true
},
{ 
"name": "name",
"description": "Filter the event list by name.",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2996",
"allowMultiple": false,
"required": false
},
{ 
"name": "nameStartsWith",
"description": "Return events with names that begin with the specified string (e.g. Sp.).",
"dataType": "string",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2995",
"allowMultiple": false,
"required": false
},
{ 
"name": "modifiedSince",
"description": "Return only events which have been modified since the specified date.",
"dataType": "Date",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2994",
"allowMultiple": false,
"required": false
},
{ 
"name": "creators",
"description": "Return only events which feature work by the specified creators (accepts a comma-separated list of ids).",
"dataType": "int",
"paramType": "query",
"_id": "5318a13f480b07a76f3b2993",
"allowMultiple": true,
"required": false
}]}
{  
  "name": "characters",
  "description": "Return only events which feature the specified characters (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2992",
  "allowMultiple": true,
  "required": false
},

{  
  "name": "series",
  "description": "Return only events which are part of the specified series (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2991",
  "allowMultiple": true,
  "required": false
},

{  
  "name": "comics",
  "description": "Return only events which take place in the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b2990",
  "allowMultiple": true,
  "required": false
},

{  
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13f480b07a76f3b298e",
  "allowableValues": {
    "valueType": "LIST",
    "_id": "5318a13f480b07a76f3b298f",
    "values": [
      "name",
      "startDate",
      "modified",
      "-name",
      "-startDate",
      "-modified"
    ]
  }
}
{ "allowMultiple": true, "required": false },

{ "name": "limit", "description": "Limit the result set to the specified number of resources.", "dataType": "int", "paramType": "query", 
  "_id": "5318a13480b07a76f32b98c", "allowableValues": { "min": 1, "max": 100, "valueType": "RANGE", "_id": "5318a13480b07a76f32b98d", "values": [] }, "allowMultiple": false, "required": false }

{ "name": "offset", "description": "Skip the specified number of resources in the result set.", "dataType": "int", "paramType": "query", 
  "_id": "5318a13480b07a76f32b98b", "allowMultiple": false, "required": false }

"summary": "Fetches lists of events filtered by a story id." }

},

{"path": "/v1/public/stories/{storyId}/series", "description": "", "operations": [ 

{ "httpMethod": "GET", "nickname": "getStorySeriesCollection", "responseClass": "SeriesDataWrapper", "notes": "Fetches lists of comic series in which the specified story takes place. See notes on individual parameters below.", 
  "_id": "5318a13480b07a76f32b28ab", "errorResponses": [ [ "code": 409, }
"reason": "Limit greater than 100.",
"_id": "5318a13e480b07a76f3b28c4"
},
{
"code": 409,
"reason": "Limit invalid or below 1.",
"_id": "5318a13e480b07a76f3b28c3"
},
{
"code": 409,
"reason": "Invalid or unrecognized parameter.",
"_id": "5318a13e480b07a76f3b28c2"
},
{
"code": 409,
"reason": "Empty parameter.",
"_id": "5318a13e480b07a76f3b28c1"
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"code": 409,
"reason": "Invalid or unrecognized ordering parameter.",
"_id": "5318a13e480b07a76f3b28c0"
},
{
"code": 409,
"reason": "Too many values sent to a multi-value list filter.",
"_id": "5318a13e480b07a76f3b28bf"
},
{
"code": 409,
"reason": "Invalid value passed to filter.",
"_id": "5318a13e480b07a76f3b28be"
},
"parameters": [
{
"name": "storyId",
"description": "The story ID.",
"dataType": "int",
"paramType": "path",
"_id": "5318a13e480b07a76f3b28bd",
"allowMultiple": false,
"required": true
},
{
"name": "events",
"description": "Return only series which have comics that take place during the specified events (accepts a comma-separated list of ids)."
}
"dataType": "int",
"paramType": "query",
"_id": "5318a13e480b07a76f3b28bc",
"allowMultiple": true,
"required": false
},

{  
  "name": "title",
  "description": "Filter by series title.",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28bb",
  "allowMultiple": false,
  "required": false
}

,

{  
  "name": "titleStartsWith",
  "description": "Return series with titles that begin with the specified string (e.g. Sp).",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28ba",
  "allowMultiple": false,
  "required": false
}

,

{  
  "name": "startYear",
  "description": "Return only series matching the specified start year.",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28b9",
  "allowMultiple": false,
  "required": false
}

,

{  
  "name": "modifiedSince",
  "description": "Return only series which have been modified since the specified date.",
  "dataType": "Date",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28b8",
  "allowMultiple": false,
  "required": false
}

,

{  
  "name": "comics",
  "description": "Return only series which contain the specified comics (accepts a comma-separated list of ids).",
  "dataType": "int",
  "paramType": "query",
  "allowMultiple": false,
  "required": false
}
"_id": "5318a13e480b07a76f3b28b7",
"allowMultiple": true,
"required": false
},
{
 "name": "creators",
 "description": "Return only series which feature work by the specified creators (accepts a comma-separated list of ids).",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13e480b07a76f3b28b6",
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 "required": false
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{
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 "description": "Return only series which feature the specified characters (accepts a comma-separated list of ids).",
 "dataType": "int",
 "paramType": "query",
 "_id": "5318a13e480b07a76f3b28b5",
 "allowMultiple": true,
 "required": false
},
{
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 "description": "Filter the series by publication frequency type.",
 "dataType": "string",
 "paramType": "query",
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 "allowableValues": {  
 "valueType": "LIST",
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 "limited",
 "ongoing"
 ]  
 },
 "allowMultiple": false,
 "required": false
},
{
 "name": "contains",
 "description": "Return only series containing one or more comics with the specified format.",
 "dataType": "string",
 "paramType": "query"
"_id": "5318a13e480b07a76f3b28b1",
"allowableValues": {
  "valueType": "LIST",
  "_id": "5318a13e480b07a76f3b28b2",
  "values": [
    "comic",
    "magazine",
    "trade paperback",
    "hardcover",
    "digest",
    "graphic novel",
    "digital comic",
    "infinite comic"
  ]
},
"allowMultiple": true,
"required": false
},
{
  "name": "orderBy",
  "description": "Order the result set by a field or fields. Add a \"-\" to the value sort in descending order. Multiple values are given priority in the order in which they are passed.\",
  "dataType": "string",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28af",
  "allowableValues": {
    "valueType": "LIST",
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      "-title",
      "-modified",
      "-startYear"
    ]
  },
  "allowMultiple": true,
  "required": false
},
{
  "name": "limit",
  "description": "Limit the result set to the specified number of resources.\",
  "dataType": "int",
  "paramType": "query",
  "_id": "5318a13e480b07a76f3b28ad",
  "allowableValues": {
    "min": 1,
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"values": [ ]
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"allowMultiple": false,
"required": false
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{ "name": "offset",
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"paramType": "query",
"_id": "5318a13e480b07a76f3b28ac",
"allowMultiple": false,
"required": false
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],
"summary": "Fetches lists of series filtered by a story id."
}]
]

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"ComicList": {
"id": "ComicList",
"properties": {
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"type": "int",
"description": "The number of total available issues in this list. Will always be greater than or equal to the \"returned\" value."
},
"returned": { 
"type": "int",
"description": "The number of issues returned in this collection (up to 20)."
},
"collectionURI": { 
"type": "string",
"description": "The path to the full list of issues in this collection."
},
"items": { 
"type": "Array",
"description": "The list of returned issues in this collection.",
"items": [ 
"$ref": "ComicSummary"
]
}
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"EventList": {
  "id": "EventList",
  "properties": {
    "available": {
      "type": "int",
      "description": "The number of total available events in this list. Will always be greater than or equal to the \"returned\" value."
    },
    "returned": {
      "type": "int",
      "description": "The number of events returned in this collection (up to 20)."
    },
    "collectionURI": {
      "type": "string",
      "description": "The path to the full list of events in this collection."
    },
    "items": {
      "type": "Array",
      "description": "The list of returned events in this collection.",
      "items": {
        "$ref": "EventSummary"
      }
    }
  }
},

"CreatorList": {
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  "properties": {
    "available": {
      "type": "int",
      "description": "The number of total available creators in this list. Will always be greater than or equal to the \"returned\" value."
    },
    "returned": {
      "type": "int",
      "description": "The number of creators returned in this collection (up to 20)."
    },
    "collectionURI": {
      "type": "string",
      "description": "The path to the full list of creators in this collection."
    },
    "items": {
      "type": "Array",
      "description": "The list of returned creators in this collection.",
      "items": {
        "$ref": "CreatorSummary"
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  }
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"CharacterList": {
  "id": "CharacterList",
  "properties": {
    "available": {
      "type": "int",
      "description": "The number of total available characters in this list. Will always be greater than or equal to the \"returned\" value."
    },
    "returned": {
      "type": "int",
      "description": "The number of characters returned in this collection (up to 20)."
    },
    "collectionURI": {
      "type": "string",
      "description": "The path to the full list of characters in this collection."
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    "items": {
      "type": "Array",
      "description": "The list of returned characters in this collection.",
      "items": {
        "$ref": "CharacterSummary"
      }
    }
  }
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"SeriesList": {
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  "properties": {
    "available": {
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      "description": "The number of total available series in this list. Will always be greater than or equal to the \"returned\" value."
    },
    "returned": {
      "type": "int",
      "description": "The number of series returned in this collection (up to 20)."
    },
    "collectionURI": {
      "type": "string",
      "description": "The path to the full list of series in this collection."
    },
    "items": {
      "type": "Array",
      "description": "The list of returned series in this collection.",
      "items": {
        "$ref": "SeriesSummary"
      }
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"StoryList": {
  "id": "StoryList",
  "properties": {
    "available": {
      "type": "int",
      "description": "The number of total available stories in this list. Will always be greater than or equal to the "returned" value."
    },
    "returned": {
      "type": "int",
      "description": "The number of stories returned in this collection (up to 20)."
    },
    "collectionURI": {
      "type": "string",
      "description": "The path to the full list of stories in this collection."
    },
    "items": {
      "type": "Array",
      "description": "The list of returned stories in this collection.",
      "items": {
        "$ref": "StorySummary"
      }
    }
  }
},
"CharacterSummary": {
  "id": "CharacterSummary",
  "properties": {
    "resourceURI": {
      "type": "string",
      "description": "The path to the individual character resource."
    },
    "name": {
      "type": "string",
      "description": "The full name of the character."
    },
    "role": {
      "type": "string",
      "description": "The role of the creator in the parent entity."
    }
  }
},
"EventSummary": {
  "id": "EventSummary",
  "properties": {
    "time": {
      "type": "date",
      "description": "The date and time of the event."
    },
    "type": "string",
    "description": "The type of event."
  }
}
"id": "EventSummary",
"properties": {
  "resourceURI": {
    "type": "string",
    "description": "The path to the individual event resource."
  },
  "name": {
    "type": "string",
    "description": "The name of the event."
  }
},
"SeriesSummary": {
  "id": "SeriesSummary",
  "properties": {
    "resourceURI": {
      "type": "string",
      "description": "The path to the individual series resource."
    },
    "name": {
      "type": "string",
      "description": "The canonical name of the series."
    }
  }
},
"ComicSummary": {
  "id": "ComicSummary",
  "properties": {
    "resourceURI": {
      "type": "string",
      "description": "The path to the individual comic resource."
    },
    "name": {
      "type": "string",
      "description": "The canonical name of the comic."
    }
  }
},
"Url": {
  "id": "Url",
  "properties": {
    "type": {
      "type": "string",
      "description": "A text identifier for the URL."
    },
    "url": {
      "type": "string",
      "description": "A full URL (including scheme, domain, and path)."
    }
  }
}
"CreatorSummary": {
    "id": "CreatorSummary",
    "properties": {
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            "type": "string",
            "description": "The path to the individual creator resource."
        },
        "name": {
            "type": "string",
            "description": "The full name of the creator."
        },
        "role": {
            "type": "string",
            "description": "The role of the creator in the parent entity."
        }
    }
},
"StorySummary": {
    "id": "StorySummary",
    "properties": {
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            "type": "string",
            "description": "The path to the individual story resource."
        },
        "name": {
            "type": "string",
            "description": "The canonical name of the story."
        },
        "type": {
            "type": "string",
            "description": "The type of the story (interior or cover)."
        }
    }
},
"Image": {
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    "properties": {
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            "description": "The directory path of to the image."
        },
        "extension": {
            "type": "string",
            "description": "The file extension for the image."
        }
    }
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"description": "The requested offset (number of skipped results) of the call."
],
"limit": {
"type": "int",
"description": "The requested result limit."
],
"total": {
"type": "int",
"description": "The total number of resources available given the current filter set."
],
"count": {
"type": "int",
"description": "The total number of results returned by this call."
],
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"items": {
"$ref": "Event"
]
}
],
"ComicPrice": {
"id": "ComicPrice",
"properties": {
"type": {
"type": "string",
"description": "A description of the price (e.g. print price, digital price)."
],
"price": {
"type": "float",
"description": "The price (all prices in USD)."
]
}
],
"EventDataWrapper": {
"id": "EventDataWrapper",
"properties": {
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"type": "int",
"description": "The HTTP status code of the returned result."
],
"status": {
"type": "string",
"description": "A string description of the call status."
],
"copyright": {

"type": "string",
"description": "The copyright notice for the returned result."
},
"attributionText": {
"type": "string",
"description": "The attribution notice for this result. Please display either this notice or the contents of the attributionHTML field on all screens which contain data from the Marvel Comics API."
},
"attributionHTML": {
"type": "string",
"description": "An HTML representation of the attribution notice for this result. Please display either this notice or the contents of the attributionText field on all screens which contain data from the Marvel Comics API."
},
"data": {
"type": "EventDataContainer",
"description": "The results returned by the call."
},
"etag": {
"type": "string",
"description": "A digest value of the content returned by the call."
}
}
"
"Creator": {
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"properties": {
"id": {
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"description": "The unique ID of the creator resource."
},
"firstName": {
"type": "string",
"description": "The first name of the creator."
},
"middleName": {
"type": "string",
"description": "The middle name of the creator."
},
"lastName": {
"type": "string",
"description": "The last name of the creator."
},
"suffix": {
"type": "string",
"description": "The suffix or honorific for the creator."
},
"fullName": {
"type": "string",
"description": "The full name of the creator (a space-separated concatenation of the above four fields).",
"modified": {
"type": "Date",
"description": "The date the resource was most recently modified."
},
"resourceURI": {
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"description": "The canonical URL identifier for this resource."
},
"urls": {
"type": "Array",
"description": "A set of public web site URLs for the resource.",
"items": {
"$ref": "Url"
}
},
"thumbnail": {
"type": "Image",
"description": "The representative image for this creator."
},
"series": {
"type": "SeriesList",
"description": "A resource list containing the series which feature work by this creator."
},
"stories": {
"type": "StoryList",
"description": "A resource list containing the stories which feature work by this creator."
},
"comics": {
"type": "ComicList",
"description": "A resource list containing the comics which feature work by this creator."
},
"events": {
"type": "EventList",
"description": "A resource list containing the events which feature work by this creator."
},
"Event": {
"id": "Event",
"properties": {
"id": {
"type": "int",
"description": "The unique ID of the event resource."
}
,"title": {
"type": "string",}
"description": "The title of the event."
},
"description": {
  "type": "string",
  "description": "A description of the event."
},
"resourceURI": {
  "type": "string",
  "description": "The canonical URL identifier for this resource."
},
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  "type": "Array",
  "description": "A set of public web site URLs for the event.",
  "items": {
    "$ref": "Url"
  }
},
"modified": {
  "type": "Date",
  "description": "The date the resource was most recently modified."
},
"start": {
  "type": "Date",
  "description": "The date of publication of the first issue in this event."
},
"end": {
  "type": "Date",
  "description": "The date of publication of the last issue in this event."
},
"thumbnail": {
  "type": "Image",
  "description": "The representative image for this event."
},
"comics": {
  "type": "ComicList",
  "description": "A resource list containing the comics in this event."
},
"stories": {
  "type": "StoryList",
  "description": "A resource list containing the stories in this event."
},
"series": {
  "type": "SeriesList",
  "description": "A resource list containing the series in this event."
},
"characters": {
  "type": "CharacterList",
  "description": "A resource list containing the characters which appear in this event."
"modified": {
  "type": "Date",
  "description": "The date the resource was most recently modified."
},
"resourceURI": {
  "type": "string",
  "description": "The canonical URL identifier for this resource."
},
"urls": {
  "type": "Array",
  "description": "A set of public web site URLs for the resource.",
  "items": {
    "$ref": "Url"
  }
},
"thumbnail": {
  "type": "Image",
  "description": "The representative image for this character."
},
"comics": {
  "type": "ComicList",
  "description": "A resource list containing comics which feature this character."
},
"stories": {
  "type": "StoryList",
  "description": "A resource list of stories in which this character appears."
},
"events": {
  "type": "EventList",
  "description": "A resource list of events in which this character appears."
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"series": {
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  "description": "A resource list of series in which this character appears."
}
"CharacterDataWrapper": {
  "id": "CharacterDataWrapper",
  "properties": {
    "code": {
      "type": "int",
      "description": "The HTTP status code of the returned result."
    },
    "status": {
      "type": "string",
      "description": "A string description of the call status."
    }
  }
}
notice or the contents of the attributionText field on all screens which contain data from the Marvel Comics API.

```
{ "data": { "type": "ComicDataContainer", "description": "The results returned by the call." }, "etag": { "type": "string", "description": "A digest value of the content returned by the call." } }, "Series": { "id": "Series", "properties": { "id": { "type": "int", "description": "The unique ID of the series resource." }, "title": { "type": "string", "description": "The canonical title of the series." }, "description": { "type": "string", "description": "A description of the series." }, "resourceURI": { "type": "string", "description": "The canonical URL identifier for this resource." }, "urls": { "type": "Array", "description": "A set of public web site URLs for the resource.", "items": [ "$ref": "Url" ] }, "startYear": { "type": "int", "description": "The first year of publication for the series." }, "endYear": { "type": "int", "description": "The last year of publication for the series (conventionally, 2099 for ongoing series). " }, "rating": { "type": "string", }}
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"items": {
  "$ref": "Series"
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  "id": "StoryDataContainer",
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      "type": "int",
      "description": "The requested offset (number of skipped results) of the call."
    },
    "limit": {
      "type": "int",
      "description": "The requested result limit."
    },
    "total": {
      "type": "int",
      "description": "The total number of resources available given the current filter set."
    },
    "count": {
      "type": "int",
      "description": "The total number of results returned by this call."
    },
    "results": {
      "type": "Array",
      "description": "The list of stories returned by the call",
      "items": {
        "$ref": "Story"
      }
    }
  }
},
"Comic": {
  "id": "Comic",
  "properties": {
    "id": {
      "type": "int",
      "description": "The unique ID of the comic resource."
    },
    "digitalId": {
      "type": "int",
      "description": "The ID of the digital comic representation of this comic. Will be 0 if the comic is not available digitally."
    },
    "title": {
"description": "A list of key dates for this comic.",
"items": {
  "$ref": "ComicDate"
}
},
"prices": {
  "type": "Array",
  "description": "A list of prices for this comic.",
  "items": {
    "$ref": "ComicPrice"
  }
},
"thumbnail": {
  "type": "Image",
  "description": "The representative image for this comic."
},
"images": {
  "type": "Array",
  "description": "A list of promotional images associated with this comic."
},
"creators": {
  "type": "CreatorList",
  "description": "A resource list containing the creators associated with this comic."
},
"characters": {
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  "description": "A resource list containing the characters which appear in this comic."
},
"stories": {
  "type": "StoryList",
  "description": "A resource list containing the stories which appear in this comic."
},
"events": {
  "type": "EventList",
  "description": "A resource list containing the events in which this comic appears."
}
},
"CreatorDataContainer": {
  "id": "CreatorDataContainer",
  "properties": {
    "offset": {
      "type": "int",
      "description": "The requested offset (number of skipped results) of the call."
    }
  }
}
"limit": {  
  "type": "int",
  "description": "The requested result limit."
},
"total": {  
  "type": "int",
  "description": "The total number of resources available given the current filter set."
},
"count": {  
  "type": "int",
  "description": "The total number of results returned by this call."
},
"results": {  
  "type": "Array",
  "description": "The list of creators returned by the call.",
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  }
}
},
"Story": {  
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  "properties": {  
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      "type": "int",
      "description": "The unique ID of the story resource."
    },
    "title": {  
      "type": "string",
      "description": "The story title."
    },
    "description": {  
      "type": "string",
      "description": "A short description of the story."
    },
    "resourceURI": {  
      "type": "string",
      "description": "The canonical URL identifier for this resource."
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      "description": "The story type e.g. interior story, cover, text story."
    },
    "modified": {  
      "type": "Date",
      "description": "The date the resource was most recently modified."
    }
  }
}
1.198 libssh2 1.8.0-2.1

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1.199 jersey-container-servlet 2.28

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.205 samba 4.10.12-r0

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## version 0.1
##
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## version 0.1
##
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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<body>
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<div id="left">
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Version 2, June 1991

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1.230 activation 1.2.1

1.231 go-uuid 1.2.0

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1.232 libgcrypt 1.8.4 5

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
if 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
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compelled to copy the source along with the object code.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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A "covered work" means either the unmodified Program or a work based on the Program.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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Balzs Dn <balazs.dan@gmail.com>
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Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
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Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlere@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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include/GL/glxext.h
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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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.

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On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
http://www.tcpdump.org/
o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to
OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

- **LIBLINEAR**. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

- **libsvn**. The Subversion library, used by the updater program


On Windows only, Nmap uses:

- **WinPcap**: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/bsd-simplified.

Zenmap and Ndiff require:

- **Python**. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
  http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:

- **GLib**, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/lgpl-2.
  http://www.gtk.org/

- **Cairo**: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/lgpl-2.1 and licenses/mpl-1.1.
  http://www.cairographics.org/

- **libgailutil**: Accessibility support for GTK+.
- **libpng**, jpeg, LibTIFF: Image file format libraries used by GTK+.

- **zlib** and **bzip2**: compression libraries.

- **Expat**: XML parser library.
  http://expat.sourceforge.net/

- **fontconfig**: font configuration library.
  http://www.fontconfig.org/

- **FreeType**: font rendering library.
  http://www.freetype.org/

- **libiconv**: Under the GNU LGPL 2.
  http://www.gnu.org/software/libiconv/

- **libintl**: gettext translation facilities. Under the GNU LGPL 2 and 2.1.
  http://www.gnu.org/software/gettext/

- **libxml2**: XML parsing library.
  http://xmlsoft.org/
o SQLite.
   http://www.sqlite.org/

o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
   http://www.pygtk.org/

o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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THE BASIC LIBRARY FUNCTIONS

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.261 apr 1.6.5

1.262 gophercloud 0.1.0
1.262.1 Available under license :
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE
Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++

        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })

    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
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Step 7: Congratulations!
------------------------

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

```go
package testing

import (   
  "fmt"
  "net/http"
  "testing"

  "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
 )

// ListResult provides a single page of RESOURCE results.   
const ListResult = `   
  {
  }   
`

// GetResult provides a Get result.   
const GetResult = `   
  {
  }   
`

// CreateRequest provides the input to a Create request.   
const CreateRequest = `   
  {
  }   
`

// UpdateRequest provides the input to as Update request.   
const UpdateRequest = `   
  {
  }   
`

// UpdateResult provides an update result.   
const UpdateResult = `   
  {

```
// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
    })
Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.
If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

### Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

#### Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

#### Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

#### ### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing
response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.
### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

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

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.
The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

```go
class RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string { return client.ServiceURL("resource") }

func getURL(client *gophercloud.ServiceClient, id string) string { return client.ServiceURL("resource", id) }

func createURL(client *gophercloud.ServiceClient) string { return client.ServiceURL("resource") }

func deleteURL(client *gophercloud.ServiceClient, id string) string { return client.ServiceURL("resource", id) }

func updateURL(client *gophercloud.ServiceClient, id string) string { return client.ServiceURL("resource", id) }

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.
While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

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

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have
enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
---------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
---------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
)

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

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

// ToResourceListQuery formats a ListOpts into a query string.  
func (opts ListOpts) ToResourceListQuery() (string, error) {  
    q, err := gophercloud.BuildQueryString(opts)  
    return q.String(), err  
}
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](https://github/contributing.md) guide again as a refresh. Notably
the [Getting Started](https://github/contributing.md# getting-started) section will
help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template)
as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.
Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Contributor Tutorial

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

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

package RESOURCE

import (  
"github.com/gophercloud/gophercloud"
// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
```

```go
type Network struct {
ID string `json:"id"
Name string `json:"name"
```
AdminStateUp bool `json:"admin_state_up"`
Status string `json:"status"`
Subnets []string `json:"subnets"`
TenantID string `json:"tenant_id"`
Shared bool `json:"shared"`

```go

type Network struct {
   ID string `json:"id"`
   Name string `json:"name"`
   AdminStateUp bool `json:"admin_state_up"
   Status string `json:"status"
   Subnets []string `json:"subnets"
   TenantID string `json:"tenant_id"
   Shared bool `json:"shared"
   AvailabilityZoneHints []string `json:"availability_zoneHints"
}

We need to be sure that `availabilityZoneHints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availabilityZoneHints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availabilityZoneHints` in the following piece of code:
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.
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1.274 azure-sdk-for-go 40.5.0+incompatible

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1.275 cdebconf 0.213ubuntu1

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Other contributors include:
Anthony Towns <ajt@debian.org>
David Whedon <dwhedon@gordian.com>
Dan Jacobowitz <dan@debian.org>
Tollef Fog Heen <tfeen@debian.org>
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1.276 libtls-standalone 2.9.1-r1

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1.277 libmnl 1.0.3 7.el7

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1.278 javax-websocket-client-api 1.0

1.279 spdylay 1.4.0
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1.280 logfmt 0.3.0

1.281 pgextwlist 1.10-1.pgdg100+1
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Source: https://github.com/dimitri/pgextwlist

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1.282 goprotobuf 1.3.1

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1.283 python-oauthlib 2.1.0-1

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1.284 giflib 5.1.4-3

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1.285 purell 1.0.0

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1.286 libgcrypt 1.7.6 2+deb9u3

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Authors with a FSF copyright assignment
=======================================

LIBGCRYPT    Werner Koch    2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala  1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany  1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPGRmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
gruyom@mail.dotcom.fr

ANY   g10 Code GmbH  2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)
LIBGCrypt Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCrypt Ulrich Miller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCrypt Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
==================
Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchiewxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:20141008180509.GA2770@trolle:

Milan Broz <gmazyland@gmail.com>
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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1.288 bridgeutils 1.5 9.el7
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END OF TERMS AND CONDITIONS

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For the KXml component:

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Google Cloud Platform Terms of Service

Last modified: May 20, 2015

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If you are accessing the Google Cloud Platform Services as a customer of a Google Cloud Platform reseller, the
terms below do not apply to you, and your agreement with your reseller governs your use of the Google Cloud
Platform Services.

Google Cloud Platform License Agreement

This Google Cloud Platform License Agreement (the "Agreement") is made and entered into by and between
Google and the entity agreeing to these terms ("Customer"). "Google" means either (i) Google Ireland Limited, with
offices at Gordon House, Barrow Street, Dublin 4, Ireland, if Customer's billing address is in any country within
Europe, the Middle East, or Africa ("EMEA"), (ii) Google Asia Pacific Pte. Ltd., with offices at 8 Marina View Asia
Square 1 #30-01 Singapore 018960, if Customer's billing address is in any country within the Asia Pacific region
("APAC"), or (iii) Google Inc., with offices at 1600 Amphitheatre Parkway, Mountain View, California 94043, if
Customer's billing address is in any country in the world other than those in EMEA and APAC.
This Agreement is effective as of the date Customer clicks to accept the Agreement (the "Effective Date"). If you are accepting on behalf of Customer, you represent and warrant that: (i) you have full legal authority to bind Customer to this Agreement; (ii) you have read and understand this Agreement; and (iii) you agree, on behalf of Customer, to this Agreement. If you do not have the legal authority to bind Customer, please do not click to accept. This Agreement governs Customer's access to and use of the Service. For an offline variant of this Agreement, you may contact Google for more information.

1. Provision of the Services.

1.1 Services Use. Subject to this Agreement, during the Term, Customer may: (a) use the Services, (b) integrate the Services into any Application that has material value independent of the Services and provide the Services, solely as integrated into that Application, to End Users, and (c) use any Software provided by Google as part of the Services. Customer may not sublicense or transfer these rights except as permitted under the Assignment section of the Agreement.

1.2 Console. Google will provide the Services to Customer. As part of receiving the Services, Customer will have access to the Admin Console, through which Customer may administer the Services.

1.3 Facilities and Data Transfer. All facilities used to store and process an Application and Customer Data will adhere to reasonable security standards no less protective than the security standards at facilities where Google processes and stores its own information of a similar type. Google has implemented at least industry standard systems and procedures to (i) ensure the security and confidentiality of an Application and Customer Data, (ii) protect against anticipated threats or hazards to the security or integrity of an Application and Customer Data, and (iii) protect against unauthorized access to or use of an Application and Customer Data. Except as set forth in the Service Specific Terms, Google may process and store an Application and Customer Data in the United States or any other country in which Google or its agents maintain facilities. By using the Services, Customer consents to this processing and storage of an Application and Customer Data. Under this Agreement, Google is merely a data processor.

1.4 Accounts. Customer must have an Account and a Token (if applicable) to use the Services, and is responsible for the information it provides to create the Account, the security of the Token and its passwords for the Account, and for any use of its Account and the Token. If Customer becomes aware of any unauthorized use of its password, its Account or the Token, Customer will notify Google as promptly as possible. Google has no obligation to provide Customer multiple Tokens or Accounts.

1.5 Safe Harbor. Google is enrolled in the U.S. Department of Commerce Safe Harbor Program and will remain enrolled in this program or another replacement program (or will adopt a compliance solution which achieves compliance with the terms of Article 25 of Directive 95/46/EC) throughout the Term.

1.6 New Applications and Services. Google may: (i) make new applications, tools, features or functionality available from time to time through the Services and (ii) add new services to the "Services" definition from time to time (by adding them at the URL set forth under that definition), the use of which may be contingent upon Customers agreement to additional terms.

1.7 Modifications.

a. To the Services. Google may make commercially reasonable Updates to the Services from time to time.
If Google makes a material change to the Services, Google will inform Customer, provided that Customer has subscribed with Google to be informed about such change.

b. To the Agreement. Google may make changes to this Agreement, including pricing (and any linked documents) from time to time. Unless otherwise noted by Google, material changes to the Agreement will become effective 30 days after they are posted, except if the changes apply to new functionality in which case they will be effective immediately. If Customer does not agree to the revised Agreement, please stop using the Services. Google will post any modification to this Agreement to the Terms URL.

1.8 Service Specific Terms and Data Processing and Security Terms. The Service Specific Terms and Data Processing and Security Terms are incorporated by this reference into the Agreement.

2. Payment Terms.

2.1 Free Quota. Certain Services are provided to Customer without charge up to the Fee Threshold, as applicable.

2.2 Online Billing. Google will issue an electronic bill to Customer for all charges accrued above the Fee Threshold based on (i) Customers use of the Services during the previous month (including, if any, the relevant Fee for TSS set forth in the Fees definition below); (ii) any Reserved Units selected; (iii) any Committed Purchases selected; and/or (iv) any Package Purchases selected. For use above the Fee Threshold, Customer will be responsible for all Fees up to the amount set in the Account and will pay all Fees in the currency set forth in the invoice. Customer will pay all Fees in accordance with the payment terms applicable to the Fees. Google's measurement of Customers use of the Services is final. Google has no obligation to provide multiple bills.

2.3 Taxes. Customer is responsible for any Taxes, and Customer will pay Google for the Services without any reduction for Taxes. If Google is obligated to collect or pay Taxes, the Taxes will be invoiced to Customer, unless Customer provides Google with a timely and valid tax exemption certificate authorized by the appropriate taxing authority. In some states the sales tax is due on the total purchase price at the time of sale and must be invoiced and collected at the time of the sale. If Customer is required by law to withhold any Taxes from its payments to Google, Customer must provide Google with an official tax receipt or other appropriate documentation to support such withholding.

2.4 Invoice Disputes & Refunds. To the fullest extent permitted by law, Customer waives all claims relating to Fees unless claimed within sixty days after charged (this does not affect any Customer rights with its credit card issuer). Refunds (if any) are at the discretion of Google and will only be in the form of credit for the Services. Nothing in this Agreement obligates Google to extend credit to any party.

2.5 Delinquent Payments. Late payments may bear interest at the rate of 1.5% per month (or the highest rate permitted by law, if less). Google reserves the right to suspend Customers Account, for any late payments.

3. Customer Obligations.

3.1 Compliance. Customer is solely responsible for its Applications, Projects, and Customer Data and for making sure its Applications, Projects, and Customer Data comply with the AUP. Google reserves the right to review the Application, Project, and Customer Data for compliance with the AUP. Customer is responsible for ensuring all End Users comply with Customers obligations under the AUP, the Service Specific Terms, and the restrictions in Sections 3.3 and 3.5 below.
3.2 Privacy. Customer will protect the privacy and legal rights of its End Users under all applicable laws and regulations, which includes a legally adequate privacy notice communicated from Customer. Customer may have the ability to access, monitor, use, or disclose Customer Data submitted by End Users through the Services. Customer will obtain and maintain any required consents from End Users to allow Customers access, monitoring, use and disclosure of Customer Data. Further, Customer will notify its End Users that any Customer Data provided as part of the Services will be made available to a third party (i.e. Google) as part of Google providing the Services.

3.3 Restrictions. Customer will not, and will not allow third parties under its control to: (a) copy, modify, create a derivative work of, reverse engineer, decompile, translate, disassemble, or otherwise attempt to extract any or all of the source code of the Services (subject to Section 3.4 below and except to the extent such restriction is expressly prohibited by applicable law); (b) use the Services for High Risk Activities; (c) sublicense, resell, or distribute any or all of the Services separate from any integrated Application; (d) create multiple Applications, Accounts, or Projects to simulate or act as a single Application, Account, or Project (respectively) or otherwise access the Services in a manner intended to avoid incurring Fees; (e) unless otherwise set forth in the Service Specific Terms, use the Services to operate or enable any telecommunications service or in connection with any Application that allows End Users to place calls or to receive calls from any public switched telephone network; or (f) process or store any Customer Data that is subject to the International Traffic in Arms Regulations maintained by the Department of State. Unless otherwise specified in writing by Google, Google does not intend uses of the Services to create obligations under HIPAA, and makes no representations that the Services satisfy HIPAA requirements. If Customer is (or becomes) a Covered Entity or Business Associate, as defined in HIPAA, Customer will not use the Services for any purpose or in any manner involving Protected Health Information (as defined in HIPAA) unless Customer has received prior written consent to such use from Google.

3.4 Third Party Components. Third party components (which may include open source software) of the Services may be subject to separate license agreements. To the limited extent a third party license expressly supersedes this Agreement, that third party license governs Customers use of that third party component.

3.5 Documentation. Google may provide Documentation for Customers use of the Services. The Documentation may specify restrictions (e.g. attribution or HTML restrictions) on how the Applications may be built or the Services may be used and Customer will comply with any such restrictions specified.

3.6 DMCA Policy. Google provides information to help copyright holders manage their intellectual property online, but Google cannot determine whether something is being used legally or not without their input. Google responds to notices of alleged copyright infringement and terminates accounts of repeat infringers according to the process set out in the U.S. Digital Millennium Copyright Act. If Customer thinks somebody is violating Customers or its End Users copyrights and wants to notify Google, Customer can find information about submitting notices, and Google's policy about responding to notices at http://www.google.com/dmca.html.

4. Suspension and Removals.

4.1 Suspension/Removals. If Customer becomes aware that any Application, Project (including an End Users use of a Project), or Customer Data violates the AUP, Customer will immediately suspend the Application or Project (if applicable), remove the applicable Customer Data or suspend access to an End User (as may be applicable). If Customer fails to suspend or remove as noted in the prior sentence, Google may specifically request that Customer do so. If Customer fails to comply with Googles request to do so within twenty-four hours, then Google may suspend Google accounts of the applicable End Users, disable the Project or Application, and/or disable the Account (as may be applicable) until such violation is corrected.
4.2 Emergency Security Issues. Despite the foregoing, if there is an Emergency Security Issue, then Google may automatically suspend the offending, Application, Project, or End User Account. Suspension will be to the minimum extent required, and of the minimum duration, to prevent or resolve the Emergency Security Issue. If Google suspends an End User account, Application, Project, or the Customer Account, for any reason, without prior notice to Customer, at Customers request, Google will provide Customer the reason for the suspension as soon as is reasonably possible.

5. Intellectual Property Rights; Use of Customer Data; Feedback.

5.1 Intellectual Property Rights. Except as expressly set forth in this Agreement, this Agreement does not grant either party any rights, implied or otherwise, to the others content or any of the others intellectual property. As between the parties, Customer owns all Intellectual Property Rights in Customer Data and the Application or Project (if applicable), and Google owns all Intellectual Property Rights in the Services and Software.

5.2 Use of Customer Data. Google may use Customer Data and Applications only to provide the Services to Customer and its End Users and to help secure and improve the Services. For instance, this may include identifying and fixing problems in the Services, enhancing the Services to better protect against attacks and abuse, and making suggestions aimed at improving performance or reducing cost.

5.3 Customer Feedback. If Customer provides Google Feedback about the Services, then Google may use that information without obligation to Customer, and Customer hereby irrevocably assigns to Google all right, title, and interest in that Feedback.

6. Technical Support Services

6.1 By Customer. Customer is responsible for technical support of its Applications and Projects.

6.2 By Google. Subject to payment of applicable support Fees, Google will provide TSS to Customer during the Term in accordance with the TSS Guidelines. Certain TSS levels include a minimum recurring Fee as described in the "Fees" definition below. If Customer downgrades its TSS level during any calendar month, Google may continue to provide TSS at the same level and TSS Fees before the downgrade for the remainder of that month.

7. Deprecation of Services

7.1 Discontinuance of Services. Subject to Section 7.2, Google may discontinue any Services or any portion or feature for any reason at any time without liability to Customer.

7.2 Deprecation Policy. Google will announce if it intends to discontinue or make backwards incompatible changes to the Services specified at the URL in the next sentence. Google will use commercially reasonable efforts to continue to operate those Services versions and features identified at https://cloud.google.com/terms/deprecation without these changes for at least one year after that announcement, unless (as Google determines in its reasonable good faith judgment):

(i) required by law or third party relationship (including if there is a change in applicable law or relationship), or

(ii) doing so could create a security risk or substantial economic or material technical burden.
The above policy is the "Deprecation Policy."

8. Confidential Information.

8.1 Obligations. The recipient will not disclose the Confidential Information, except to Affiliates, employees, agents or professional advisors who need to know it and who have agreed in writing (or in the case of professional advisors are otherwise bound) to keep it confidential. The recipient will ensure that those people and entities use the received Confidential Information only to exercise rights and fulfill obligations under this Agreement, while using reasonable care to keep it confidential.

8.2 Required Disclosure. Notwithstanding any provision to the contrary in this Agreement, the recipient may also disclose Confidential Information to the extent required by applicable Legal Process; provided that the recipient uses commercially reasonable efforts to: (i) promptly notify the other party of such disclosure before disclosing; and (ii) comply with the other party's reasonable requests regarding its efforts to oppose the disclosure. Notwithstanding the foregoing, subsections (i) and (ii) above will not apply if the recipient determines that complying with (i) and (ii) could: (a) result in a violation of Legal Process; (b) obstruct a governmental investigation; and/or (c) lead to death or serious physical harm to an individual. As between the parties, Customer is responsible for responding to all third party requests concerning its use and its End Users use of the Services.

9. Term and Termination.

9.1 Agreement Term. The Term of this Agreement will begin on the Effective Date and continue until the Agreement is terminated as set forth in Section 9 of this Agreement.

9.2 Termination for Breach. Either party may terminate this Agreement for breach if: (i) the other party is in material breach of the Agreement and fails to cure that breach within thirty days after receipt of written notice; (ii) the other party ceases its business operations or becomes subject to insolvency proceedings and the proceedings are not dismissed within ninety days; or (iii) the other party is in material breach of this Agreement more than two times notwithstanding any cure of such breaches. In addition, Google may terminate any, all, or any portion of the Services or Projects, if Customer meets any of the conditions in Section 9.2(i), (ii), and/or (iii).

9.3 Termination for Inactivity. Google reserves the right to terminate the Services for inactivity, if, for a period exceeding 180 days, Customer: (a) has failed to access the Admin Console; (b) a Project has no active virtual machine or storage resources or an Application has not served any requests; and (c) no electronic bills are being generated.

9.4 Termination for Convenience. Customer may stop using the Services at any time. Customer may terminate this Agreement for its convenience at any time on prior written notice and upon termination, must cease use of the applicable Services. Google may terminate this Agreement for its convenience at any time without liability to Customer.

9.5 Effect of Termination. If the Agreement is terminated, then: (i) the rights granted by one party to the other will immediately cease; (ii) all Fees owed by Customer to Google are immediately due upon receipt of the final electronic bill; (iii) Customer will delete the Software, any Application, Instance, Project, and any Customer Data; and (iv) upon request, each party will use commercially reasonable efforts to return or destroy all Confidential Information of the other party.
10. Publicity. Customer is permitted to state publicly that it is a customer of the Services, consistent with the Trademark Guidelines. If Customer wants to display Google Brand Features in connection with its use of the Services, Customer must obtain written permission from Google through the process specified in the Trademark Guidelines. Google may include Customers name or Brand Features in a list of Google customers, online or in promotional materials. Google may also verbally reference Customer as a customer of the Services. Neither party needs approval if it is repeating a public statement that is substantially similar to a previously-approved public statement. Any use of a party's Brand Features will inure to the benefit of the party holding Intellectual Property Rights to those Brand Features. A party may revoke the other party's right to use its Brand Features under this Section with written notice to the other party and a reasonable period to stop the use.

11. Representations and Warranties. Each party represents and warrants that: (a) it has full power and authority to enter into the Agreement; and (b) it will comply with all laws and regulations applicable to its provision, or use, of the Services, as applicable. Google warrants that it will provide the Services in accordance with the applicable SLA (if any).

12. Disclaimer. EXCEPT AS EXPRESSLY PROVIDED FOR IN THIS AGREEMENT, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, GOOGLE AND ITS SUPPLIERS DO NOT MAKE ANY OTHER WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE AND NONINFRINGEMENT. GOOGLE AND ITS SUPPLIERS ARE NOT RESPONSIBLE OR LIABLE FOR THE DELETION OF OR FAILURE TO STORE ANY CUSTOMER DATA AND OTHER COMMUNICATIONS MAINTAINED OR TRANSMITTED THROUGH USE OF THE SERVICES. CUSTOMER IS SOLELY RESPONSIBLE FOR SECURING AND BACKING UP ITS APPLICATION, PROJECT, AND CUSTOMER DATA. NEITHER GOOGLE NOR ITS SUPPLIERS, WARRANTS THAT THE OPERATION OF THE SOFTWARE OR THE SERVICES WILL BE ERROR-FREE OR UNINTERRUPTED. NEITHER THE SOFTWARE NOR THE SERVICES ARE DESIGNED, MANUFACTURED, OR INTENDED FOR HIGH RISK ACTIVITIES.

13. Limitation of Liability.

13.1 Limitation on Indirect Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIERS, WILL BE LIABLE UNDER THIS AGREEMENT FOR LOST REVENUES OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES, EVEN IF THE PARTY KNEW OR SHOULD HAVE KNOWN THAT SUCH DAMAGES WERE POSSIBLE AND EVEN IF DIRECT DAMAGES DO NOT SATISFY A REMEDY.

13.2 Limitation on Amount of Liability. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER PARTY, NOR GOOGLE'S SUPPLIERS, MAY BE HELD LIABLE UNDER THIS AGREEMENT FOR MORE THAN THE AMOUNT PAID BY CUSTOMER TO GOOGLE UNDER THIS AGREEMENT DURING THE TWELVE MONTHS PRIOR TO THE EVENT GIVING RISE TO LIABILITY.

13.3 Exceptions to Limitations. These limitations of liability do not apply to breaches of confidentiality obligations, violations of a party's Intellectual Property Rights by the other party, or indemnification obligations.


14.1 By Customer. Unless prohibited by applicable law, Customer will defend and indemnify Google and its Affiliates against Indemnified Liabilities in any Third-Party Legal Proceeding to the extent arising from: (i) any
Application, Project, Instance, Customer Data or Customer Brand Features; or (ii) Customers, or its End Users, use of the Services in violation of the AUP.

14.2 By Google. Google will defend and indemnify Customer and its Affiliates against Indemnified Liabilities in any Third-Party Legal Proceeding to the extent arising solely from an Allegation that use of (a) Googles technology used to provide the Services (excluding any open source software) or (b) any Google Brand Feature infringes or misappropriates the third parties patent, copyright, trade secret, or trademark.

14.3 Exclusions. This Section 14 will not apply to the extent the underlying Allegation arises from:

a. the indemnified partys breach of this Agreement;

b. modifications to the indemnifying partys technology or Brand Features by anyone other than the indemnifying party;

c. combination of the indemnifying partys technology or Brand Features with materials not provided by the indemnifying party; or

d. use of non-current or unsupported versions of the Services or Brand Features;

14.4 Conditions. Sections 14.1 and 14.2 will apply only to the extent:

a. The indemnified party has promptly notified the indemnifying party in writing of any Allegation(s) that preceded the Third-Party Legal Proceeding and cooperates reasonably with the indemnifying party to resolve the Allegation(s) and Third-Party Legal Proceeding. If breach of this Section 14.4(a) prejudices the defense of the Third-Party Legal Proceeding, the indemnifying partys obligations under Section 14.1 or 14.2 (as applicable) will be reduced in proportion to the prejudice.

b. The indemnified party tenders sole control of the indemnified portion of the Third-Party Legal Proceeding to the indemnifying party, subject to the following: (i) the indemnified party may appoint its own non-controlling counsel, at its own expense; and (ii) any settlement requiring the indemnified party to admit liability, pay money, or take (or refrain from taking) any action, will require the indemnified partys prior written consent, not to be unreasonably withheld, conditioned, or delayed.

14.5 Remedies.

a. If Google reasonably believes the Services might infringe a third partys Intellectual Property Rights, then Google may, at its sole option and expense: (a) procure the right for Customer to continue using the Services; (b) modify the Services to make them non-infringing without materially reducing their functionality; or (c) replace the Services with a non-infringing, functionally equivalent alternative.

b. If Google does not believe the remedies in Section 14.5(a) are commercially reasonable, then Google may suspend or terminate Customers use of the impacted Services.

14.6 Sole Rights and Obligations. Without affecting either partys termination rights, this Section 14 states the parties only rights and obligations under this Agreement for any third party's Intellectual Property Rights Allegations and Third-Party Legal Proceedings.
15. U.S. Federal Agency Users. The Services were developed solely at private expense and are commercial computer software and related documentation within the meaning of the applicable Federal Acquisition Regulations and their agency supplements.


16.1 Notices. All notices must be in writing and addressed to the other party’s legal department and primary point of contact. The email address for notices being sent to Google’s Legal Department is legal-notices@google.com. Notice will be treated as given on receipt as verified by written or automated receipt or by electronic log (as applicable).

16.2 Assignment. Neither party may assign any part of this Agreement without the written consent of the other, except to an Affiliate where: (a) the assignee has agreed in writing to be bound by the terms of this Agreement; (b) the assigning party remains liable for obligations under the Agreement if the assignee defaults on them; and (c) the assigning party has notified the other party of the assignment. Any other attempt to assign is void.

16.3 Change of Control. If a party experiences a change of Control (for example, through a stock purchase or sale, merger, or other form of corporate transaction): (a) that party will give written notice to the other party within thirty days after the change of Control; and (b) the other party may immediately terminate this Agreement any time between the change of Control and thirty days after it receives that written notice.

16.4 Force Majeure. Neither party will be liable for failure or delay in performance to the extent caused by circumstances beyond its reasonable control.

16.5 No Agency. This Agreement does not create any agency, partnership or joint venture between the parties.

16.6 No Waiver. Neither party will be treated as having waived any rights by not exercising (or delaying the exercise of) any rights under this Agreement.

16.7 Severability. If any term (or part of a term) of this Agreement is invalid, illegal, or unenforceable, the rest of the Agreement will remain in effect.

16.8 No Third-Party Beneficiaries. This Agreement does not confer any benefits on any third party unless it expressly states that it does.

16.9 Equitable Relief. Nothing in this Agreement will limit either party’s ability to seek equitable relief.

16.10 U.S. Governing Law.

a. For U.S. City, County, and State Government Entities. If Customer is a U.S. city, county or state government entity, then the Agreement will be silent regarding governing law and venue.

b. For U.S. Federal Government Entities. If Customer is a U.S. federal government entity then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICES WILL BE GOVERNED BY THE LAWS OF THE UNITED STATES OF AMERICA, EXCLUDING ITS CONFLICT OF LAWS RULES. SOLELY TO THE EXTENT PERMITTED BY FEDERAL LAW: (I) THE LAWS OF THE STATE OF CALIFORNIA (EXCLUDING CALIFORNIA’S CONFLICT OF LAWS RULES)
WILL APPLY IN THE ABSENCE OF APPLICABLE FEDERAL LAW; AND (II) FOR ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICES, THE PARTIES CONSENT TO PERSONAL JURISDICTION IN, AND THE EXCLUSIVE VENUE OF, THE COURTS IN SANTA CLARA COUNTY, CALIFORNIA.

c. For All Other Entities. If Customer is any entity not set forth in Section 16.10(a) or (b) then the following applies: ALL CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICES WILL BE GOVERNED BY CALIFORNIA LAW, EXCLUDING THAT STATES CONFLICT OF LAWS RULES, AND WILL BE LITIGATED EXCLUSIVELY IN THE FEDERAL OR STATE COURTS OF SANTA CLARA COUNTY, CALIFORNIA, USA; THE PARTIES CONSENT TO PERSONAL JURISDICTION IN THOSE COURTS.

16.11 Amendments. Except as set forth in Section 1.7(b), any amendment must be in writing, signed by both parties, and expressly state that it is amending this Agreement.

16.12 Survival. The following Sections will survive expiration or termination of this Agreement: 5, 8, 9.5, 13, 14, and 16.

16.13 Entire Agreement. This Agreement sets out all terms agreed between the parties and supersedes all other agreements between the parties relating to its subject matter. In entering into this Agreement, neither party has relied on, and neither party will have any right or remedy based on, any statement, representation or warranty (whether made negligently or innocently), except those expressly set out in this Agreement. The terms located at a URL referenced in this Agreement and the Documentation are incorporated by reference into the Agreement. After the Effective Date, Google may provide an updated URL in place of any URL in this Agreement.

16.14 Conflicting Terms. If there is a conflict between the documents that make up this Agreement, the documents will control in the following order: the Agreement, and the terms at any URL.

16.15 Definitions.
"Account" means Customers Google Cloud Platform account.
"Admin Console" means the online console(s) and/or tool(s) provided by Google to Customer for administering the Services.
"Affiliate" means any entity that directly or indirectly Controls, is Controlled by, or is under common Control with a party.
"Allegation" means an unaffiliated third partys allegation.
"Application(s)" means any web or other application Customer creates using the Services, including any source code written by Customer to be used with the Services, or hosted in an Instance.
"AUP" means the acceptable use policy set forth here for the Services: http://cloud.google.com/terms/aup
"Brand Features" means the trade names, trademarks, service marks, logos, domain names, and other distinctive brand features of each party, respectively, as secured by such party from time to time.
"Committed Purchase(s)” have the meaning set forth in the Service Specific Terms.
"Confidential Information” means information that one party (or an Affiliate) discloses to the other party under this Agreement, and which is marked as confidential or would normally under the circumstances be considered confidential information. It does not include information that is independently developed by the recipient, is rightfully given to the recipient by a third party without confidentiality obligations, or becomes public through no fault of the recipient. Customer Data is considered Customers Confidential Information.
"Control" means control of greater than fifty percent of the voting rights or equity interests of a party.
"Customer Data” means content provided, transmitted, or displayed via the Services by Customer or its End
Users; but excluding any data provided when Customer creates its general Google account (either under a gmail.com address or an email address provided under the "Google Apps" product line).

"Data Processing and Security Terms" means the terms set forth at: https://cloud.google.com/terms/data-processing-terms.

"Documentation" means the Google documentation (as may be updated from time to time) in the form generally made available by Google to its customers for use with the Services including the following: (a) Google App Engine, set forth here: https://cloud.google.com/appengine/; (b) Google Cloud SQL, set forth here: https://cloud.google.com/sql; (c) Google Cloud Storage, set forth here: https://cloud.google.com/storage; (d) Google Prediction API, set forth here: https://cloud.google.com/prediction; (e) Google BigQuery Service, set forth here: https://cloud.google.com/bigquery/; (f) Google Compute Engine, set forth here: https://cloud.google.com/compute/; and (g) Google Cloud Datastore, set forth here: https://cloud.google.com/datastore/.

"Emergency Security Issue" means either: (a) Customers or its End Users use of the Services in violation of the AUP, which could disrupt: (i) the Services; (ii) other Customers or its End Users use of the Services; or (iii) the Google network or servers used to provide the Services; or (b) unauthorized third party access to the Services.

"End Users" means the individuals Customer permits to use the Services, Application, or Project.

"Fee Threshold" means the threshold (as may be updated from time to time), as applicable for certain Services, as set forth here: https://cloud.google.com/pricing/.

Feedback means feedback or suggestions about the Services provided to Google by Customer.

"Fees" means the applicable fees for each Service and any applicable Taxes. The Fees for each Service are set forth here: https://cloud.google.com/pricing/.

"High Risk Activities" means uses such as the operation of nuclear facilities, air traffic control, or life support systems, where the use or failure of the Services could lead to death, personal injury, or environmental damage.

"HIPAA" means the Health Insurance Portability and Accountability Act of 1996 as it may be amended from time to time, and any regulations issued under it.

"Indemnified Liabilities" means any (i) settlement amounts approved by the indemnifying party; and (ii) damages and costs finally awarded against the indemnified party and its Affiliates by a court of competent jurisdiction.

"Instance" means a virtual machine instance, configured and managed by Customer, which runs on the Services. Instances are more fully described in the Documentation.

"Intellectual Property Rights" means current and future worldwide rights under patent, copyright, trade secret, trademark, and moral rights laws, and other similar rights.

"Legal Process" means a data disclosure request made under law, governmental regulation, court order, subpoena, warrant, governmental regulatory or agency request, or other valid legal authority, legal procedure, or similar process.

"Package Purchase" has the meaning set forth in the Service Specific Terms.

"Project" means a grouping of computing, storage, and API resources for Customer, and via which Customer may use the Services. Projects are more fully described in the Documentation.

"Reserved Capacity Units" have the meaning set forth in the Service Specific Terms.

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"Reserved Units" have the meaning set forth in the Service Specific Terms.

"Services" means the, services as set forth here: https://cloud.google.com/services (including any associated application programming interfaces); and TSS, but the Services do not include Google Translate API.

"Service Specific Terms" means the terms specific to one or more Services set forth here: https://cloud.google.com/terms/service-terms, except the terms relating to (a) Google Translate API; and (b) Fees for Google Cloud Datastore set forth at that Service Specific Terms URL do not apply.

"SLA" means the Service Level Agreement as applicable to: (a) Google App Engine set forth here: https://cloud.google.com/appengine/sla; (b) Google Cloud Storage set forth here: https://cloud.google.com/storage/; (c) Google Prediction API set forth here:
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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## Commands to generate dependency files
GEN_DEPS.c=$\(\text{CC}\) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$\(\text{CXX}\) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICXXFLAGS) -o $@ $<
## Dependency rules

%.d: $(srctdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed \"%s/\(\$\*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@’

%.d: $(srctdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN_DEPS\.cc\) $< \n| sed \"%s/\(\$\*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.\$(SO)\$(SO\_TARGET\_VERSION\_MAJOR): %.\$(SO)\$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.\$(SO): %.\$(SO)\$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s ${*F}.\$(SO)\$(SO\_TARGET\_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR\_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR\_DEPS=

## Remove shared library ’s’
STATIC\_PREFIX\_WHEN\_USED =
STATIC\_PREFIX =

## End BSD-specific setup

---

1.304 uitable 0.0.4

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1.305 kerberos 1.15-1+deb9u1

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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kpropdlog.c

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```

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cmd/krb5/slave/kpropd_rpc.c
```

```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```

```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```

```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```

```
lib/krb5/kadm5/kadm_host_srv_names.c
```

```
lib/krb5/kdb/kdb_convert.c
```

```
lib/krb5/kdb/kdb_hdr.h
```

```
lib/krb5/kdb/kdb_log.c
```

```
lib/krb5/kdb/kdb_log.h
```

```
lib/libgss/g_accept_sec_context.c
```

```
lib/libgss/g_acquire_cred.c
```

```
lib/libgss/g_canon_name.c
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lib/libgss/g_compare_name.c
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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.307 libyaml 0.2.1 1

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Upstream-Name: LibYAML
Upstream-Contact: Kirill Simonov <xi@resolvent.net>
Source: https://github.com/yaml/libyaml

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when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
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Files: debian/*
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1.312 libcroco 0.6.12 4.el7

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1.314 netty-codec 4.1.32.Final
1.315 thrift 0.13.0

1.315.1 Available under license:

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compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrifty.ll
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lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadServer.cs
lib/csharp/src/Server/TTThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TTStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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1.316 govmomi 0.20.3
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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
        {
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }
    }
}
body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }
            if Map.Get(id) == nil {

                body.Res = new(types.UpdateLicenseLabelResponse)

                for j := range license.Labels {
                    label := &license.Labels[j]

                    if label.Key == req.LabelKey {
                        if req.LabelValue == "" {
                            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                        } else {
                            label.Value = req.LabelValue
                        }
                        return body
                    }
                }

                license.Labels = append(license.Labels, types.KeyValue{
                    Key:   req.LabelKey,
                    Value: req.LabelValue,
                })

                return body
            }
        }
    }

    return body
}
return body
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
`type decode struct {
  *flags.ClientFlag
  *flags.OutputFlag

  feature string
}

func init() {
  cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", ",", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }

  return nil
}

func (cmd *decode) Usage() string {
  return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }

  var result license.InfoList
  m := license.NewManager(client)
  for _, v := range f.Args() {
    license, err := m.Decode(ctx, v)
    if err != nil {


package license

import (
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key:	Edition:	Used:	Total:
    
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.LicenseKey)
        fmt.Fprintf(tw, "%s\t", v.EditionKey)
        fmt.Fprintf(tw, "%d\t", v.Used)
        
    return tw.Flush()
    }
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Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
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package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag
    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{})
}
func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", ",", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.
Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    return flag.ErrHelp
}
key := f.Arg(0)

client, err := cmd.Client()
if err != nil {
    return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}

host, err := cmd.HostSystemIfSpecified()
if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))

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package license

import (  "context"  "flag"  "github.com/vmware/govmomi/govc/cli"  "github.com/vmware/govmomi/govc/flags"  "github.com/vmware/govmomi/license"  "github.com/vmware/govmomi/vim25/methods"  "github.com/vmware/govmomi/vim25/types"
)

type label struct {  *flags.ClientFlag
}

func init() {  cli.Register("license.label.set", &label{})
}

}

func (cmd *label) Usage() string {  return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {  return `Set license labels.  Examples:`

 Examples:
func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    if f.NArg() != 3 {
        return flag.ErrHelp
    }

    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
        LabelValue: f.Arg(2),
    }

    _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

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 */

package license

import {
    "context"
    "flag"
type remove struct {
  *flags.ClientFlag
  *flags.OutputFlag
}

func init() {
  cli.Register("license.remove", &remove{})
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}

func (cmd *remove) Usage() string {
  return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }
  m := license.NewManager(client)
  for _, v := range f.Args() {
    err = m.Remove(ctx, v)
    if err != nil {
      return err
    }
  }
  return nil
}
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#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
  if [ "$(govc license.ls -json | jq .[0].EditionKey)" != "eval" ]; then
    skip "requires evaluation license"
  fi
}

get_key() {
  jq ".[1] | select(.LicenseKey == "$1")"
}

get_property() {
  jq -r ".Properties[] | select(.Key == "$1") .Value"
}

get_label() {
  govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") .Labels[] .Value"
}

get_nlabel() {
  govc license.ls -json | jq ".[] | select(.LicenseKey == "$1") .Labels[] .Key" | wc -l
}

@test "license.add" {
  esx_env
}
verify_evaluation

run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
assert_success

# Expect to see an entry for both the first and the second key
assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"

@test "license.remove" {
    esx_env
    verify_evaluation
    run govc license.remove -json 00000-00000-00000-00000-00001
    assert_success
}

@test "license.ls" {
    vcsim_env
    verify_evaluation
    run govc license.ls -json
    assert_success

    # Expect the test instance to run in evaluation mode
    assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<${output} jq -r ".Name")"
}

@test "license.decode" {
    esx_env
    verify_evaluation
    key=00000-00000-00000-00000-00000
    assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
    vcsim_env
    key=00000-00000-00000-00000-00000
    assert_equal 0 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"

run govc license.label.set $key foo bar
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal bar "$(get_label $key foo)"

run govc license.label.set $key biz baz
assert_success
run govc license.label.set $key foo bar2
assert_success

assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

run govc license.label.set $key foo ""
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"

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package license

import (
    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return err
    }

    return nil
}
This:  m.Reference(),
EntityId: id,
}

_, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
req := types.UpdateAssignedLicense{
This: m.Reference(),
Entity: id,
LicenseKey: key,
EntityDisplayName: name,
}

res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
return nil, err
}

return &res.Returnval, nil
}
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*/

package license

import (  "context"  "flag"  "fmt"  "io"
type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag
    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }
}
return err
}

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
    return err
}

return cmd.WriteResult(assignedOutput(assigned))

 type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

 func (res assignedOutput) Write(w io.Writer) error {
     tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
     fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
     for _, v := range res {
         fmt.Fprintf(tw, "%s", v.EntityId)
         fmt.Fprintf(tw, "%s", v.Scope)
         fmt.Fprintf(tw, "%s", v.EntityDisplayName)
         fmt.Fprintf(tw, "%s", v.AssignedLicense.LicenseKey)
         fmt.Fprintf(tw, "\n")
     }
     return tw.Flush()
 }

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package simulator

import (  
    "context"  
    "reflect"  
    "testing"  
    "github.com/vmware/govmomi"  
    "github.com/vmware/govmomi/find"  
    "github.com/vmware/govmomi/license"  
)

func TestLicenseManagerVPX(t *testing.T) {  
    ctx := context.Background()  
    m := VPX()  
    defer m.Remove()  
    err := m.Create()  
    if err != nil {  
        t.Fatal(err)  
    }  
    s := m.Service.NewServer()  
    defer s.Close()
c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
m := ESX()

defer m.Remove()

er := m.Create()
if er != nil {
    t.Fatal(er)
}

s := m.Service.NewServer()
defer s.Close()

c, er := govmomi.NewClient(ctx, s.URL, true)
if er != nil {
    t.Fatal(er)
}

lm := license.NewManager(c.Client)
_, er = lm.AssignmentManager(ctx)
if er == nil {
    t.Fatal("expected error")
}

la, er := lm.List(ctx)
if er != nil {
    t.Fatal(er)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
m := ESX()

defer m.Remove()

er := m.Create()
if er != nil {
    t.Fatal(er)
}
s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
t.Fatal(err)
}

if info.LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to \%q; got \%q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to \%d; got \%d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
t.Fatalf("expect label to be \{key:value\}; got \{%s:%s\}", info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 2 {
t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to \%q; got \%q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to \%d; got \%d", len(labels), len(la[1].Labels))
}
if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}",
    la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

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*/

package license

import (  
    "context"  
    "strconv"  
    "strings"  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/mo"  
)
type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }
    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }
    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }
    return res.Returnval, nil
}
func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:       m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValuesSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
if mlm.LicenseAssignmentManager == nil {
    return nil, object.ErrNotSupported
}

am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil


type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }
    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)
    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
    }
    return false
}
If := parseLicenseFeature(kv.Key)

if lf.name == feature.name && lf.level >= feature.level {
    return true
}

return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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*/

package license

import ({
    "context"
    "flag"
var featureUsage = "List licenses with given feature"

```go
package license

import (    "github.com/vmware/govmomi/govc/cli"    "github.com/vmware/govmomi/govc/flags"    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {    *flags.ClientFlag    *flags.OutputFlag    feature string }

func init() {    cli.Register("license.ls", &ls{} ) }


func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {    client, err := cmd.Client()    if err != nil {        return err    }    m := license.NewManager(client)    result, err := m.List(ctx)    if err != nil {        return err    }
```
if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}
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*/
package license
import (
    "context"
    "flag"
    "fmt"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)
type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}
func init() {
    cli.Register("license.add", &add{}}
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag, ctx = flags.NewOutputFlag(ctx, f)
    cmd.ClientFlag, ctx = flags.NewLicenseFlag(ctx)

cmd.ClientFlag.Register(ctx, f)

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)

cmd.ClientFlag.Register(ctx, f)

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssignmentManager.updateAssignedLicense for VirtualCenter.
    // var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
    switch t := client.ServiceContent.About.ApiType; t {
        case "HostAgent":
            addFunc = m.Update
        case "VirtualCenter":
            addFunc = m.Add
        default:
            return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
if err != nil {
    return err
}

result = append(result, license)

return cmd.WriteResult(licenseOutput(result))

1.317 grpc-go 1.19.0
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1.318 berkeley-db 5.3.21

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1.330 apr 1.4.8

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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
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facilities. This must be distributed under the terms of the
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-jar/io/netty/handler/ssl/SslHandler.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutHandler.java

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* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-jar/io/netty/handler/address/ResolveAddressHandler.java

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  jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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M. Welsh, 6 July 1996

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for his contributions to the dvb-net driver

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

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
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for the ntx2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the ntx2002 and ntx2004 modules into a
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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

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1.345 libjpeg 6b

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
               rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.
If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.
The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)
The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
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- The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" which 
is an adapted version of "OrekitMessagesTest" test class for the Orekit library 
- The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator" 
has been imported from the Orekit space flight dynamics library.

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here: http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf

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Email local part: ph10
Email domain: cam.ac.uk

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Gerhard Petracek gpetracek@apache.org,
Romain Manni-Bucau rmanni-bucau@apache.org,
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1.355 go-jose 2.2.2

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## Double-conversion v1.1.5

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.364 unbound 1.6.7-1ubuntu2.3

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    * /opt/ws_local/PERMITS_SQL/1050289411_1591718911.0/0/swagger-parser-1-0-50-sources-jar/io/swagger/parser/util/SwaggerDeserializer.java
```

1.374 bind 9.11.4 16.P2.el7_8.2

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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1.379 llvm-toolchain-7 7.0.1-8
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1.382 libpsl 0.20.2 2

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1.384 jackson-jaxrs-json-provider 2.10.2
1.384.1 Available under license :
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.389 util-linux 2.31.1-0.4ubuntu3.6

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Version 3, 29 June 2007

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlfs(detlfs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Version 3.1, 31 March 2009

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

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

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

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.

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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1.392 findutils 4.6.0+git+20190209 2
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts.
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  * org.eclipse.jetty.orbit.org.eclipse.jdt.core
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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/* PRESENT */

foo()

// COMMENTS: 1
Google Dart Js backend was removed - https://code.google.com/p/dart/source/detail?r=4771

According to http://www.apache.org/legal/3party.html we can include "Google Dart Js backend" in source form,
because code license is "New BSD License" (Authorized License).

This part of code will be removed when kotlin will be rewritten on kotlin.
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import org.jetbrains.kotlin.idea.copyright.UpdateKotlinCopyright
import org.jetbrains.kotlin.idea.test.KotlinLightCodeInsightFixtureTestCase
import org.jetbrains.kotlin.idea.test.PluginTestCaseBase
import org.jetbrains.kotlin.test.InTextDirectivesUtils
import org.junit.Assert
import java.io.File
abstract class AbstractUpdateKotlinCopyrightTest : KotlinLightCodeInsightFixtureTestCase() {
fun doTest(path: String) {
myFixture.configureByFile(path)
val fileText = myFixture.file.text.trim()
val expectedNumberOfComments = InTextDirectivesUtils.getPrefixedInt(fileText, "// COMMENTS: ") ?: run {
if (fileText.isNotEmpty()) {

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throw AssertionError("Every test should assert number of comments with 'COMMENTS' directive")
} else {
0
}

val comments = UpdateKotlinCopyright.getExistentComments(myFixture.file)
for (comment in comments) {
    val commentText = comment.text
    when {
        commentText.contains("PRESENT") -> {
        }
        commentText.contains("ABSENT") -> {
            throw AssertionError("Unexpected comment found: " + \$commentText \")
        }
        else -> {
            throw AssertionError("A comment with bad directive found: " + \$commentText \")
        }
    }
}

Assert.assertEquals(
    "Wrong number of comments found:
    \$comments.joinToString(sep = \"\n\") { it.text } \n",
    expectedNumberOfComments, comments.size
)

override fun getTestDataPath() = File(PluginTestCaseBase.getTestDataPathBase(), '/copyright').path + File.separator

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*/
package org.jetbrains.idl2k.util
import org.xml.sax.InputSource
import java.io.File
import javax.xml.xpath.XPathFactory
fun readCopyrightNoticeFromProfile(copyrightProfile: File): String {
val template = copyrightProfile.reader().use { reader ->
XPathFactory.newInstance().newXPath().evaluate("/component/copyright/option[@name='notice']/@value",
InputSource(reader))
}
val yearTemplate = "&#36;today.year"
val year = java.time.LocalDate.now().year.toString()
assert(yearTemplate in template)
return template.replace(yearTemplate, year).lines().joinToString("", prefix = "/*\n", postfix = " */\n") { " * $it\n" }
}
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/* PRESENT */
fun some() {}
// COMMENTS: 1
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Dart are:

7-Zip - in third_party/7zip
JSCRE - in runtime/third_party/jscre
Ant - in third_party/apache_ant
args4j - in third_party/args4j
bzip2 - in third_party/bzip2
dromaeo - in samples/third_party/dromaeo
Eclipse - in third_party/eclipse
gsutil - in third_party/gsutil
Guava - in third_party/guava
hamcrest - in third_party/hamcrest
Httplib2 - in samples/third_party/httplib2
JSON - in third_party/json
JUnit - in third_party/junit
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*/
package tasks
import groovy.util.Node
import groovy.util.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.Project
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.io.File
import java.util.*

open class WriteCopyrightToFile : DefaultTask() {
@InputFile
var path = project.file("${project.rootDir}/.idea/copyright/apache.xml")
@OutputFile
var outputFile: File? = null
@Input
var commented: Boolean = true
@TaskAction
fun write() {
if (commented) {
outputFile!!.writeText(project.readCopyrightCommented())
} else {
outputFile!!.writeText(project.readCopyright())
}
}

fun Project.readCopyright(): String {
val file = rootDir.resolve(".idea/copyright/apache.xml")
assert(file.exists()) {
"File $file with copyright not found"
}

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val xmlParser = XmlParser()
val node = xmlParser.parse(file)
assert(node.attribute("name") == "CopyrightManager") {
    "Format changed occasionally?"
}

val copyrightBlock = node.children().filterIsInstance<Node>().single()
val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
return noticeNode.attribute("value").toString().replace("$today.year",
GregorianCalendar()[Calendar.YEAR].toString())
}

fun Project.readCopyrightCommented(): String {
    return "/*
\n" + readCopyright().prependIndent(" * ") + " */"
}

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/* PRESENT 1 */
/* PRESENT 2 */
// PRESENT 3
/** ABSENT */
package/** ABSENT 1 */ normal
/* ABSENT 2 */

// COMMENTS: 3
/**
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- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
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- Path: js/js.parser/src/com/google
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- Path: js/js.translator/qunit/qunit.js
  - License: MIT ([license/third_party/qunit_license.txt][qunit])
  - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,

- Path: libraries/stdlib/src/kotlin/collections
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- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
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  - License: Apache 2 ([license/third_party/closure-compiler_LICENSE.txt][closure-compiler])
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- Path: plugins/lint/android-annotations
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- Path: third-party/annotations/edu/umd/cs/findbugs
  - License: LGPL 2.1 ([license/third_party/testdata/findbugs_license.txt][findbugs])
  - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland

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  - Origin: Gradle, Copyright (C) 2013 Square, Inc.

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// ABSENT */
class Some

// COMMENTS: 0

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/* PRESENT */

package normal

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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org.eclipse.jetty.toolchain:jetty-schemas

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.409 nettle 3.4 1

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1.417 gmp 6.2.0-r0

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>  

This text also documents the following sub-packages:

=head2 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->[1_type( F_RDLCK )];
$fs->[1_whence( SEEK_CUR )];
$fs->[1_start( 100 )];
$fs->[1_len( 123 )];

open my $fh, '<', 'file_name' or die "Can't open file: $!

$fs->lock( $fh, F_SETLK )
  or print "Locking failed: " . $fs->[error . "\n";
File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=item C<new()>  

To create a new object, representing a flock structure, call L<new()>:

$fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the
flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

$fs = new File::FcntlLock( l_type   => F_WRLCK,
                          l_whence => SEEK_SET,
                          l_start  => 0,
                          l_len    => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>). If called with no argument the current value of the property is returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l_whence> member. See also the man page for L<lseek(2)>.
Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at \texttt{C<l_start>}, to the end of the file. E.g., a lock obtained with \texttt{L<l_whence> set to C<SEEK_SET>} and both \texttt{L<l_start>} and \texttt{L<l_len>} set to 0 locks the complete file.

According to SUSv3 support for negative values for \texttt{L<l_len>} are permitted, resulting in a lock ranging from \texttt{C<l_start>+L<len>} up to and including \texttt{C<l_start>-1>}. But not all systems support negative values for \texttt{L<l_len>} and will return an error when you try to obtain such a lock, so please read the \texttt{L<fcntl(2)>} man page of the system carefully for details.

If a call of the \texttt{L<lock()> method with C<F_GETLK>} indicates that another process is holding the lock (in which case the \texttt{L<l_type>} property will be either \texttt{C<F_WRLCK>} or \texttt{C<F_RDLCK>}) a call of the \texttt{L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

This method expects two arguments. The first one is a file handle (or typeglob). \texttt{File::fcntlLock}, and thus \texttt{File::fcntlLock::XS} (\texttt{B<but neither> File::fcntlLock::Pure B<nor> File::fcntlLock::Inline}), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

\texttt{$fs->lock( $fh, F_SETLK );}

There are three values that can be used as the second argument:
With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

With C<F_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l_type> property will be set to C<F_UNLCK>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

There are minor differences between File::FcntlLock on the one hand and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of...
invalid arguments. In contrast File::FcntlLock passes them on to the
L<fcntl(2)> system call and then returns the systems response to the
caller.

There are three methods for obtaining information about the
reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the
latest call of L<lock()> . Please take the messages with a grain of
salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux,
TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers
mean. There could be differences (and additional error numbers) on
other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct
relevance to the locking operation (i.e., "File or segment already
locked by other process(es)" instead of "Permission denied") this method
returns the "normal" system error message associated with C<errno>. The
method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back
=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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 */

File::FcntlLock
===============

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there are three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed. 

PORTABILITY
To use the module the system must support the `fcntl()` system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

The module requires the following other modules:

- POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

AUTHOR

Jens Thoms Toerring <jt@toerring.de>

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* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.ow2.asm:asm

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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* /opt/ws_local/PERMITS_SQL/1068792427_1594461242.74/0/netty-codec-socks-4-1-45-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java

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1.429 libteam 1.29 1.el7

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1.431 pcre 8.32 17.el7

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

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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<signature of Ty Coon>, 1 April 1989
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based on the debian-keyring package maintained by James Troup

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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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
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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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.

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").

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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It may happen that this requirement contradicts the license
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distribute.

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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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1.449 ini 1.51.0

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250c44-a0e0-4ee0-adb9-2bd74f6e6b27

1.454 libsepol 2.8 1
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in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
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in an aggregate does not cause this License to apply to the other
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You may convey a covered work in object code form under the terms
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machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
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customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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the User Product in which it has been modified or installed. Access to a
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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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1.456 hk2-utils 2.5.0

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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Akemi Matsuno-Yagi
Alain Reguera Delgado
Alan Bartlett
Andreas Thienemann
Anssi Johansson
Athmane Madjoudj
Bonnie King
Brian Stinson
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1.478 jackson-module-paranamer 2.10.2

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1.479 sed 4.2.2 6.el7

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state the exclusion of warranty; and each file should have at least
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<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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````
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
````

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1.489 open-ldap 2.4.45+dfsg-1ubuntu1.6

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1.494 adduser 3.118

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This package was first put together by Ian Murdock
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Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<srl@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.495 device-mapper-multipath 0.4.9 131.el7
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That's all there is to it!
1.496 zlib 1.2.11.dfsg 1

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1.497 javax-websocket-client-impl

9.4.20.v20190813

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

- `org.ow2.asm:asm-commons`
- `org.ow2.asm:asm`

-----

Apache

The following artifacts are ASL2 licensed.

- `org.apache.taglibs:taglibs-standard-spec`
- `org.apache.taglibs:taglibs-standard-impl`

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- `org.mortbay.jasper:apache-jsp`
- `org.apache.tomcat:tomcat-jasper`
- `org.apache.tomcat:tomcat-juli`
- `org.apache.tomcat:tomcat-jsp-api`
- `org.apache.tomcat:tomcat-el-api`
- `org.apache.tomcat:tomcat-jasper-el`
- `org.apache.tomcat:tomcat-api`
- `org.apache.tomcat:tomcat-util-scan`
- `org.apache.tomcat:tomcat-util`
- `org.mortbay.jasper:apache-el`
- `org.apache.tomcat:tomcat-jasper-el`
- `org.apache.tomcat:tomcat-el-api`

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

- `https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html`
- `org.eclipse.jetty.toolchain:jetty-schemas`
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1.498 vaadin-shared 8.8.6

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  jar/elemental/json/impl/JreJsonValue.java

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1.500 apk-tools 2.10.5-r0

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@example
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@c ispell-local-pdict: "ispell-dict"
@c End:
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(This file is under construction.)

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

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

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

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

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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Version 2, June 1991

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

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

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

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

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.514 findutils 4.6.0+git+20161106 2

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People who have contributed to tcsh for win32 with bugfixes, functionality, and other useful pieces of code. If I've left you out, please let me know!

(In alphabetical order)

Tom Kludy  (tom.kludy@citrix.com)
Yarek Kowalik  (Yarek.Kowalik@Sitraka.com)
Edward Lam
Matt Landau
Avner Lottem  (avner.lottem@intel.com)
blucas (?)  (blucas@broadcom.com)
Chun-Pong Yu  (bol.pacific.net.sg)
TAGA nayuta  (nayuta@is.s.u-tokyo.ac.jp)
Mike Thomas  (miketh@brisbane.paradigmgeo.com)
Mark Tucker  (mtucker@fiji.sidefx.com)
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*/

/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/******************** System dependant compilation flags ****************/
/*
* POSIX>This system supports IEEE Std 1003.1-1988 (UNIX). 
*/
#undef POSIX

/*
* POSIXJOBS>This system supports the optional IEEE Std 1003.1-1988 (POSIX) 
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK>This machine has a vfork().
* It used to be that for job control to work, this define 
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird). 
* Note that some machines eg. rs6000 have a vfork, but not 
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS>You have BSD-style job control (both process groups and 
* a tty that deals correctly
*/
#define BSDJOBS
/*
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * *(OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/**************************** local defines ****************************/

#endif /* _h_config */

1.526 commons-logging 1.2

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1.527 gnutls 3.6.7-4+deb10u2

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#### Constant-time SSSE3 AES core implementation.

#### version 0.1

#### By Mike Hamburg (Stanford University), 2009

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1.536 pcre 8.39 3

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Email local part: ph10
Email domain: cam.ac.uk

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.538 jetty-annotations 9.4.20.v20190813

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain.jetty-schemas

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1.540 merge 0.3.5

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}. 
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelInboundHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * 
 * <ul>
 * <li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li> { @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li> { @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li> { @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li> { @link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
<h3>The context object</h3>

A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.

<h3>State management</h3>

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:
* // Create a new handler instance per channel.
* // See [ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
*
* <h4>Using AttributeKeys</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use AttributeKeys which is provided by
* ChannelHandlerContext:
* 
* public interface Message {
*     // your methods here
* }
*
* @Sharable
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");
*
*     @Override
*     public void channelRead(ChannelHandlerContext ctx, Message message) {
*         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else if (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
*
* Now that the state of the handler is attached to the ChannelHandlerContext, you can add the
* same handler instance to different pipelines:
* 
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
```java
private static final DataServerHandler SHARED = new DataServerHandler();

@Override
public void initChannel(@link Channel) channel {
    channel.pipeline().addLast("handler", SHARED);
}
```

The `@Sharable` annotation

In the example above which used a `@link AttributeKey`,
you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable`
annotation, it means you can create an instance of the handler just once and
add it to one or more `@link ChannelPipeline`s multiple times without
a race condition.

If this annotation is not specified, you have to create a new handler
every time you add it to a pipeline because it has unshared state
such as member variables.

This annotation is provided for documentation purpose, just like

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and
`@link ChannelPipeline` to find out more about inbound and outbound operations,
what fundamental differences they have, how they flow in a pipeline, and how to handle
the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/socket/DuplexChannel.java
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* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/DefaultSelectStrategyFactory.java
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  jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
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 * /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/DefaultAddressedEnvelope.java
 * /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/ChannelProgressivePromise.java
 * /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-jar/io/netty/channel/group/ChannelMatcher.java
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   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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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
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prepared so as to be conveniently linked with application programs
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The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
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included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.554 gnutls 3.5.18-1ubuntu1.4
1.554.1 Available under license :

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1.559 kotlin-stdlib 1.3.50

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1.562 pax-utils 1.2.3 r0

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1.563 simpleclient 0.6.0
1.564 python 3.7.3-2+deb10u2

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

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

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

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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1.567 python-lxml 3.2.1 4.el7

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.579 pyliblzma 0.5.3-11.el7

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)*/
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)*/

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

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1.594 base-passwd 3.5.43

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

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

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

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

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

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

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1.597 jetty-security 9.4.24.v20191120

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.598 swagger-core 2.1.1

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  jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
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  jar/io/netty/buffer/PooledSlicedByteBuf.java
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  jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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  jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
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  jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068271477_1594339203.93/0/netty-buffer-4-1-45-final-sources-1-jar/io/netty/buffer/PoolArena.java

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* /opt/ws_local/PERMITS_SQL/1068271477_1594339203.93/0/netty-buffer-4-1-45-final-sources-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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<signature of Ty Coon>, 1 April 1990
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  jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureError.java

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* /opt/ws_local/PERMITS_SQL/1065163923_1593484433.47/0/rxjava-2-2-19-sources-jar/io/reactivex/internal/operators/observable/ObservableScanSeed.java
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* /opt/ws_local/PERMITS_SQL/1065163923_1593484433.47/0/rxjava-2-2-19-sources-jar/io/reactivex/internal/operators/flowable/FlowableScanSeed.java
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* /opt/ws_local/PERMITS_SQL/1065163923_1593484433.47/0/rxjava-2-2-19-sources-jar/io/reactivex/internal/operators/flowable/FlowableTakeLastOne.java
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jar/io/reactivex/internal/operators/maybe/MaybeIgnoreElement.java
* /opt/ws_local/PERMITS_SQL/1065163923_1593484433.47/0/rxjava-2-2-19-sources-
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jar/io/reactivex/internal/operators/flowable/FlowableMergeWithMaybe.java
* /opt/ws_local/PERMITS_SQL/1065163923_1593484433.47/rxjava-2-2-19-sources-
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* /opt/ws_local/PERMITS_SQL/1065163923_1593484433.47/rxjava-2-2-19-sources-
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jar/io/reactivex/internal/operators/observable/ObservableBufferTimed.java
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>>> freebsd-base64-4.8
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<one line to give the program's name and a brief idea of what it does.>

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1.619 readline 8.0

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1.634 keyutils 1.5.8 3.el7

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

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1.644 libffi 3.0.13 19.el7

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1.645 logback-core 1.2.3

1.646 core-module 1.1.3

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1.651 libtasn 4.13 2

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Contributor(s):
Klaus Foerster <klaus.foerster@svg.cc> [AsSvg()]
Luigi Costalli <luigi.costalli@gmail.com> [Dijkstra's shortest path algorithm]

The Vanuatu Team - University of Toronto [WKT parser]
Supervisor: Greg Wilson <gvwilson@cs.toronto.ca>
[you can find the complete team composition in gg_wkt.c]

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1.655 ca-certificates 2019.2.32-76.el7_7

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1.658 sqlite 3.22.0-1ubuntu0.4

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Jan Holmberg, <jan@artech.net>:
 o Memory framework
 o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
 o MISC checker redesign
 o Scheduler framework extension to support child process handling.
 o Daemon framework extension to block SIGCHLD
Jeremy Rumpf, <rumpf.6@osu.edu>:
  o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
  o Added dont_track_primary, nopreempt,
      preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

Nick Couchman, <nick.couchman@seakr.com>:
  o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w@1wt.eu>:
  o Extended VRRP framework to support floating
     priority.

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-------------------------------------------------------------------------
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
int retval = PAM_IGNORE, rc;
char *user = NULL;
char *dir = NULL;
char *flag = NULL;
struct passwd *pwd = NULL;
struct stat s;
int f;
/* Get the user name to determine if we need to print the disclaimer */
rc = pam_get_item(pamh, PAM_USER, &user);
if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
{
    PAM_MODUTIL_DEF_PRIVS(privs);

    /* Get the password entry */
pwd = pam_modutil_getpwnam (pamh, user);
    if (pwd != NULL)
    {
        if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
            pam_syslog(pamh, LOG_ERR,
                       "Unable to change UID to %d temporarily\n",
                       pwd->pw_uid);
            retval = PAM_SESSION_ERR;
            goto finished;
        }

        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
            goto finished;
        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
            goto finished;

        if (stat(flag, &s) != 0)
            display_file(pamh, "/etc/legal");

        mkdir(dir, 0700);
        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
        if (f>=0) close(f);
    }

    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                   "Unable to change UID back to %d\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }
}

finished:
_pam_drop(flag);
+    _pam_drop(dir);
+}
+
+    return retval;
+
+}
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
        display_file(pamh, motd_path);
+
+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+
+    return retval;
}
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**1.664 mdadm 4.1 4.el7**

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  Dynamic chip feature detection (a.k.a. generic chip support) in
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.666 gin 1.5.0

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jar/com/google/gwt/inject/rebind/binding/RequiredKeys.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
jar/com/google/gwt/inject/rebind/binding/GinjectorBinding.java
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jar/com/google/gwt/inject/rebind/util/KeyUtil.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
jar/com/google/gwt/inject/rebind/binding/BindingIndex.java

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* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-jar/com/google/gwt/inject/guiceapi/com/google/inject/Provider.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-jar/com/google/gwt/inject/guiceapi/com/google/inject/name/Named.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-jar/com/google/gwt/inject/guiceapi/javax/inject/Scope.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-jar/com/google/gwt/inject/guiceapi/com/google/inject/Singleton.java

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* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-jar/com/google/gwt/inject/rebind/util/NoSourceNameException.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-jar/com/google/gwt/inject/guiceapi/com/google/inject/Provider.java

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  jar/com/google/gwt/inject/client/assistedinject/FactoryModule.java
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  jar/com/google/gwt/inject/guiceapi/com/google/inject/spi/Message.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
  jar/com/google/gwt/inject/rebind/binding/BindingContext.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
  jar/com/google/gwt/inject/client/AsyncProvider.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
  jar/com/google/gwt/inject/rebind/binding/FactoryBinding.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
  jar/com/google/gwt/inject/client/assistedinject/BindingCollector.java
* /opt/ws_local/PERMITS_SQL/1034993101_1589128490.81/0/gin-1-5-0-sources-
  jar/com/google/gwt/inject/rebind/BindingEntry.java
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1.667 setup 2.8.71 11.el7

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                 "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `
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```
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
        Redistribution and use in source and binary forms, with or without
        modification, are permitted provided that the following conditions are met:

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

package cmd

func initLgpl() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Lesser General Public License as published by
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import (  
"strings"  
"time"
  
"github.com/spf13/viper"
)

var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
    type License struct {  
        Name            string   // The type of license in use  
        PossibleMatches []string // Similar names to guess  
        Text            string   // License text data  
        Header          string   // License header for source files  
    }

    func init() {  
        // Allows a user to not use a license.  
        Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

        initApache2()  
        initMit()  
        initBsdClause3()  
        initBsdClause2()  
        initGpl2()  
        initGpl3()
// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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package cmd

func initAgpl() {
  Licenses["agpl"] = License{
    Name: "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
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package cmd

func initApache2() {
 Licenses["apache"] = License{
 Name: "Apache 2.0",
 PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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common/test-constants.c common/test-hash.c
p11-kit/pkcs11.h p11-kit/test-managed.c
trust/builder.c trust/builder.h trust/digest.h trust/module.c
trust/module.h trust/module-init.c trust/pem.c
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```
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ispell-local-pdict: "ispell-dict"
End:
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The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Gocheck - A rich testing framework for Go

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.696 go-runewidth 0.0.9

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1.703 free-type 2.8 14.el7

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1.706 python 3.6.9-1~18.04ubuntu1.1
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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1.708 heimdal 7.5.0+dfsg 1

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AES in libhcrypto

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@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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1.714 dash 0.5.10.2 5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Original Authors
-------------
Peter Mattis <petm@xcf.berkeley.edu>
Spencer Kimball <spencer@xcf.berkeley.edu>
Josh MacDonald <jmacd@xcf.berkeley.edu>

Please do not mail the original authors asking questions about this version of GLib.
GLib Team
--------
Shawn T. Amundson  <amundson@gimp.org>
Jeff Garzik       <jgarzik@pobox.com>
Raja R Harinath   <harinath@cs.umn.edu>
Tim Janik         <timj@gtk.org>
Elliot Lee        <sopwith@redhat.com>
Tor Lillqvist     <tml@iki.fi>
Paolo Molaro      <lupus@debian.org>
Havoc Pennington  <hp@pobox.com>
Manish Singh      <yosh@gimp.org>
Owen Taylor       <otaylor@gtk.org>
Sebastian Wilhelmi <wilhelmi@ira.uka.de>

The random number generator "Mersenne Twister", which is used by GLib,
was developed and originally coded by:
Makoto Matsumoto   <matumoto@math.keio.ac.jp>
Takuji Nishimura   <nisimura@math.keio.ac.jp>

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Gadi Oxman, August 1995

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

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

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Theodore Ts'o
23-June-2007

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

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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+ Copyright (C) Jeremy Allison               2000-2006
+ Copyright (C) Paul 'Rusty' Russell         2000

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This is the Debian GNU/Linux prepackaged version of the ss
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otherwise packaged as "e2fsprogs".

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

From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libcce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/S$(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSDLIB_LIB) $(BSDLIB_LIB))

install-shlibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)
clean: 
$(RM) -rf pic 
$(RM) -f $(BSD_LIB) 
$(RM) -f ../$(BSD_LIB) 
This is the Debian GNU/Linux prepackaged version of the static EXT2 
file system consistency checker (e2fsck.static). The EXT2 utilities 
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>. 

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1.724 bash 4.4.18 2ubuntu1.2 

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Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
Arvid Picciani
Bartosz Brachaczek
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1.729 go-codec 1.1.7

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Aaron France <aaron.l.france@gmail.com>
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```
Gaal Yahas <gaal@google.com>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Garrick Evans <garrick@google.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
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Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Georg Reinke <guleffey@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos Dimitriadis <gedimitri@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
Giulio Iotti <dullgiulio@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@gmail.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Greg Ward <greg@gerg.ca>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
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Hvard Haugen <havard.haugen@gmail.com>
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Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Del Ponte <delponte@j@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Travis <infomaniac7@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean-Marc Eurin <jmeurin@google.com>
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Jeff Craig <jeffcraig@google.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jens Frederich <jf Frederich@gmail.com>
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Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jess Frazelle <me@jessfraz.com>
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Jim Cote <jfcote87@gmail.com>
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Patrick Mzard <patrick@mezard.eu>
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Patrick Smith <pat42smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Chang <paulchang@gmail.com>
Paul Hammond <paul@paulhammond.org>
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1.730 reflections 0.9.12

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1.737 logfmt 0.4.0

1.738 curl 7.29.0 57.el7

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zlib http://www.gzip.org/zlib/zlib_license.html

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krb4

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Protocol Buffers for Go with Gadgets

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

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

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1.751 libjpeg-turbo 1.5.2-2+b1

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DOCUMENTATION ROADMAP

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This file contains the following sections:
OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.
This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpegcom" and "wrjpegcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain-sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent. GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJK does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJK's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/ msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
==================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.752 connect-runtime 2.5.0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
FlashPoint Driver Developer's Kit
Version 1.0

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* /opt/ws_local/PERMITS_SQL/1088003433_1599657203.04/0/netty-resolver-dns-4-1-45-final-sources-jar/io/netty/resolver/dns/package-info.java

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jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1088003433_1599657203.04/0/netty-resolver-dns-4-1-45-final-sources-
jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/ws_local/PERMITS_SQL/1088003433_1599657203.04/0/netty-resolver-dns-4-1-45-final-sources-
jar/io/netty/resolver/dns/NopDnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1088003433_1599657203.04/0/netty-resolver-dns-4-1-45-final-sources-
jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
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* /opt/ws_local/PERMITS_SQL/1088003433_1599657203.04/0/netty-resolver-dns-4-1-45-final-sources-
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* /opt/ws_local/PERMITS_SQL/1088003433_1599657203.04/0/netty-resolver-dns-4-1-45-final-sources-
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1.760 sensible-utils 0.0.12

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1.761 go-playground-validator 9.29.1
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1.763 tar 1.2.11-29.el7

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1.764 cobra 0.0.3

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    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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package cmd

func initBsdClause2() {
  Licenses["freebsd"] = License{
    Name: "Simplified BSD License",
    PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
    Header: "All rights reserved.

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```
}
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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    Name: "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `
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    adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix "."'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE 	.byte	
#define ASM_SHORT 	.word	
#define ASM_LONG 	.long	
#define ASM_QUAD 	.quad	 /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE)  
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

*scale Define the syntax of labels and symbol definitions/declarations. */

*scale This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

*scale This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

*scale This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG)
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

*scale This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

*scale The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_


/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
        ])

        self.skip_dirs |= set([
            'docs',
        ])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    return None
if filename in self.skip_files:
    return True

(base, extension) = os.path.splitext(os.path.join(dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]?[-0-9,\s]+\s+and\s+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
name = '[\w.-]'

# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.  
    '((Cc)opyright'  
    ']|(Cc)opyright\s+\{[Cc]\})'  
    ']|(Cc)opyright\s+%s'  
    ']|(Cc)opyright\s+&copy;'  
    ']|(Cc)opyright\s+@copyright{ }'  
    'copyright = u\''  
    '{@set\s+copyright[\w-]')

# 2: the years. Include the whitespace in the year, so that  
# we can remove any excess.  
'(|\s*\(\?\:' + ranges + '\,'\)?  
'[@value\{[^{}]*\}])s*')

# 3: 'by ', if used  
'\(by\\s+\)\?'

# 4: the copyright holder. Don't allow multiple consecutive  
# spaces, so that right-margin gloss doesn't get caught  
# (e.g. gnat_ugn.texi).  
'(\ + name + '(?\s?\ + name + *)?')

# A regexp for notices that might have slipped by. Just matching  
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
# HTML header markers, so check for 'copyright' and two digits.  
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',  
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl'
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '. 
self.separator = ''

def add_package_author(self, holder, canon_form=None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find(' ')
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
(min_year, max_year) = self.year_range (years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else '')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                            file, line, match)
                        (this_changed, line, next_line) = res
                changed = changed or this_changed
                line = line.rstrip() + '
'
            return (changed, line, next_line)
changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
    self.errors.report (pathname,
    'unrecognised copyright: %s'
    % line.strip())

lines.append (line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
            os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add" files before changing them",

---
self.o_quilt
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join(chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith(canon_dir):
                count += 1
                self.copyright.process_tree(dir, filter)
        if count == 0:
            self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)
        #--------------------------------------------

    class TopLevelFilter(GenericFilter):
        def skip_dir(self, dir, subdir):
            return True

    class ConfigFilter(GenericFilter):
        def __init__(self):
            GenericFilter.__init__(self)
        def skip_file(self, dir, filename):
            if filename.endswith('.m4'):
                pathname = os.path.join(dir, filename)
                with open(pathname) as file:
                    # Skip files imported from gettext.
                    if file.readline().find('gettext-') >= 0:
                        return True
            return GenericFilter.skip_file(self, dir, filename)

    class GCCFilter(GenericFilter):
        def __init__(self):
            GenericFilter.__init__(self)
            self.skip_files |= set(['math-68881.h',])
            self.skip_dirs |= set(['ada', 'testsuite',])

            #--------------------------------------------
self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.F90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.F90',
            '.go',
            '.inc',
            '.java',
        ])

        def skip_file (self, dir, filename):
            # g++.niklas/README contains historical copyright information
            # and isn't updated.
            if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
                return True
            # Similarly params/README.
            if filename == 'README' and os.path.basename (dir) == 'params':
                return True
            return GenericFilter.skip_file (self, dir, filename)
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
cannon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', cannon_fsf)
self.add_package_author ('Free Software Foundation.', cannon_fsf)
self.add_package_author ('Free Software Foundation Inc.', cannon_fsf)
self.add_package_author ('Free Software Foundation, Inc', cannon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', cannon_fsf)
self.add_package_author ('The Free Software Foundation', cannon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', cannon_fsf)
self.add_package_author ('Software Foundation, Inc.', cannon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Intel Corporation')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuiji Nishimura')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CommandLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('gotools')
self.add_dir('include')
# intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
# libcilkrts is imported from upstream.
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtt')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

default_dirs = ['gcc',
                 'include',
                 'libada',
                 'libatomic',
                 'libbacktrace',
                 'libcc1',
                 'libcxx',
                 'libdecnumber',
                 'libgcc',
                 'libgfortran',
                 'libgomp',
                 'libhsail-rt',
                 'libiberty',
                 'libitm',
GCCCmdLine().main()
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(11) IBM Corp. spu processor (only spu-* targets)

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@end enumerate

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@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end small

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble
========

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concluded that weaker conditions might promote sharing better.

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If such an object file uses only numerical parameters, data
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<para xml:id="SourceCode" renderas="sect1">
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<para>
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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

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

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

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

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

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

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

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

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

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

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

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1.770 go-colorful 1.0.2

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1.772 guava 27.0.1-android

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code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete—if
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
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Nieuwma, Jeff
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Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
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Rasch, Gudleik
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Rossom, Guido van
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Rowe, William A., Jr.
Roy, Alain
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Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
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Schuring, Arno
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Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
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1.775 zlib 1.2.11

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* httpd@ncsa.uiuc.edu
*
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*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*

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1.787 curl 7.69.1-r0

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

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using their own licenses. Even libcurl itself contains code that may cause
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the other libraries use and what possible dilemmas linking and mixing them all
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hostname -- set the host name or show the host/domain name

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1.789 jetty-io 9.4.20.v20190813

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.790 pcre 8.38

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1.791 lcms 2.9-3

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

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

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1.803 openjdk 1.8.0u252
1.803.1 Available under license :

### JSZip v3.2.1

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## DOM Level 3 Core Specification v1.0

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b) Use a suitable shared library mechanism for linking with the
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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include/KHR/khrplatform.h :

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
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* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
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* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
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  * Add missing WrappedSocket.fileno method in PyOpenSSL

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  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
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* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
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  * HTTPHeaderDict and associated tests and docs
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* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
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  * IPv6 bugfixes in testsuite

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* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
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* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

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  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

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  * Ensure order of request and response headers are preserved.

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  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.
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  * Ensure timeouts are not booleans and greater than zero.
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  * Created selectors backport that supports PEP 475.

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* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

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  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

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  * Minor fixes in the test suite

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  * Add Python 2.6 support to \``contrib.securetransport\``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add "HTTPResponse.geturl" method to provide "urllib2.urlopen().geturl()" behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

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

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=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = "":
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d\n",
            $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
            $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "<_\_" for $diff->Items(1);
    print $sep;
    print ">_\_" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs   = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );
# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    \@extra_args,
);

traverse_balanced(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
        CHANGE    => \&callback4,
    },
    \&key_generator,
    \@extra_args,
);

=head1 INTRODUCTION

(by Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said
that they worked very hard on the algorithm until they found the
right one.

I think what they ended up using (and I hope someone will correct me,
because I am not very confident about this) was the `longest common
subsequence' method. In the LCS problem, you have two sequences of
items:

a b c d f g h j q z
and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

a b c d f g j z

From there it's only a small step to get diff-like output:

e h i k q r x y
+  -  +  +  - ++ +

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

a x b y c z p d q
a b c a x b y c z

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

a x b y c z p d q
a b c a x b y c z

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

a x b y c z p d q
a b c a x b y c z

or

a x b y c z p d q
a b c a x b y c z

(See also the README file and several example scripts include with this module.)
This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: \texttt{C\<LCS\>}, \texttt{C\<LCS\_length\>}, \texttt{C\<LCSidx\>}, OO interface, \texttt{C\<prepare\>}, \texttt{C\<diff\>}, \texttt{C\<sdiff\>}, \texttt{C\<traverse\_sequences\>}, and \texttt{C\<traverse\_balanced\>.

=head2 \texttt{C\<LCS\>}

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C\<LCS\>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>.

\begin{verbatim}
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
\end{verbatim}

Additional parameters, if any, will be passed to the key generation routine.

=head2 \texttt{C\<LCS\_length\>}

This is just like \texttt{C\<LCS\>} except it only returns the length of the longest common subsequence. This provides a performance gain of about 9\% compared to \texttt{C\<LCS\>.

=head2 \texttt{C\<LCSidx\>}

Like \texttt{C\<LCS\>} except it returns references to two arrays. The first array contains the indices into \texttt{@seq1} where the LCS items are located. The second array contains the indices into \texttt{@seq2} where the LCS items are located.

Therefore, the following three lists will contain the same values:

\begin{verbatim}
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
\end{verbatim}

=head2 \texttt{C\<new\>}


C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ] Encloses optional arguments
  : Is followed by the default value for an optional argument
  | Separates alternate return results

Method summary:

$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

<bits> = $obj->Diff( );
@items@$cnt = $obj->Same( );
@items@$cnt = $obj->Items( $seqNum );
@idxs $cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

$pos = $diff->Next();  # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset();    # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);   # Move to the first hunk
$diff->Reset(-1);  # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);
$copy = $diff->Copy();
$copy->Reset($pos);
$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();

=item C<Diff>

<bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0
This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<<< $diff->Items(1) >>> will return an empty list (0 in a scalar context). If the current hunk contains only deletions, then C<<< $diff->Items(2) >>> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<<< $diff->Items(1) >>> and C<<< $diff->Items(2) >>> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the following two snippets always return the same lists:

@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(?-?d+)?(min|max)[12]$i

/^(range[12]|same|diff|base)$i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:
Using \texttt{C\textasciitilde Get\textasciitilde} in a scalar context when you've passed in more than one name is a fatal error (\texttt{C\textasciitilde die} is called).

\begin{verbatim}
=back
=\texthead2 \texttt{C<prepare>}
\end{verbatim}

Given a reference to a list of items, \texttt{C<prepare>} returns a reference to a hash which can be used when comparing this sequence to other sequences with \texttt{C<LCS>} or \texttt{C<LCS\_length>}.  

\begin{verbatim}
$prep = \texttt{prepare( \texttt{\@seq1} );}
for Si ( 0 .. 10,000 )
{
    @lcs = \texttt{LCS( $prep, $seq[Si] );}
    # do something useful with @lcs
}
\end{verbatim}

\texttt{C<prepare>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function.  See L</KEY GENERATION FUNCTIONS>.  

\begin{verbatim}
$prep = \texttt{prepare( \texttt{\@seq1, \&keyGen);}
for Si ( 0 .. 10,000 )
{
    @lcs = \texttt{LCS( $seq[Si], $prep, \&keyGen);}
    # do something useful with @lcs
}
\end{verbatim}

Using \texttt{C<prepare>} provides a performance gain of about 50\% when calling LCS many times compared with not preparing.

\begin{verbatim}
=\texthead2 \texttt{C<diff>}
\end{verbatim}

\begin{verbatim}
@diffs = \texttt{diff( \texttt{\@seq1, \@seq2 );}
$diffs\_ref = \texttt{diff(\texttt{\@seq1, \@seq2 );}
\end{verbatim}

\texttt{C<diff>} computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes.  The description is a list of \texttt{I<hunks>}; each hunk represents a contiguous section of items which should be added, deleted, or replaced.  (Hunks containing unchanged items are not included.)

The return value of \texttt{C<diff>} is a list of hunks, or, in scalar context, a
reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling \texttt{C<diff>} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

\begin{verbatim}
( 
[ [ '-', 0, 'a' ] ],
[ [ '+', 2, 'd' ] ],
[ [ '-', 4, 'h' ],
  [ '+', 4, 'f' ] ],
[ [ '+', 6, 'k' ] ],
[ [ '-', 8, 'n' ],
  [ '-', 9, 'p' ],
  [ '+', 9, 'r' ],
  [ '+', 10, 's' ],
  [ '+', 11, 't' ] ],
)
\end{verbatim}

There are five hunks here. The first hunk says that the \texttt{C<a>} at position 0 of the first sequence should be deleted (\texttt{C<->}). The second hunk says that the \texttt{C<d>} at position 2 of the second sequence should be inserted (\texttt{C<+>}). The third hunk says that the \texttt{C<h>} at position 4 of the first sequence should be removed and replaced with the \texttt{C<f>} from position 4 of the second sequence. And so on.

\texttt{C<diff>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}. Additional parameters, if any, will be passed to the key generation routine.

\begin{verbatim}
=head2 C<sdiff>

    @sdiffs     = sdiff( \@seq1, \@seq2 );
    $sdiffs_ref = sdiff( \@seq1, \@seq2 );

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:

```
<table>
<thead>
<tr>
<th>same</th>
<th>same</th>
</tr>
</thead>
<tbody>
<tr>
<td>before</td>
<td>after</td>
</tr>
<tr>
<td>old</td>
<td>&lt;</td>
</tr>
<tr>
<td>-</td>
<td>&gt;</td>
</tr>
</tbody>
</table>
```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<++>: Element added, C<->: Element removed, C<u>: Element unmodified, C<-->: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

results in

```
( ['-', 'a', '' ],
 [ 'u', 'b', 'b' ],
 [ 'u', 'c', 'c' ],
 [ '+', ',', 'd' ],
 [ 'u', 'e', 'e' ],
 [ 'c', 'h', 'f' ],
 [ 'u', 'j', 'j' ],
 [ '+', ',', 'k' ],
 [ 'u', 'l', 'l' ],
 [ 'u', 'm', 'm' ],
 [ 'c', 'n', 'r' ],
 [ 'c', 'p', 's' ],
 [ '+', ',', 't' ],
 )
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>
C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```perl
my @a = qw(a b c e h j l m n p);
my @b = qw(b c d e f j k l m r s t);
@cdiff = compact_diff( @a, @b );
# Returns:
# @a @b @a @b
# start start values values
( 0, 0, # =
 0, 0, # a !
 1, 2, # b c = b c
 3, 3, # ! d
 3, 3, # e = e
 4, 4, # ! h
 5, 5, # j = j
 6, 6, # ! k
 6, 7, # l m = l m
 8, 9, # n p ! r s t
10, 12, # )
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]> through C<$diff[2] - 1> of the first sequence and contains items C<$diff[1]> through C<$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```perl
# 1st pair  2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start  Hunk end
```
Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];```

# or
```@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];```

# or
```@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];```

# or
```@hunk2a = ('a');
@hunk2b = ( );```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3b = @b[ $cdiff[5] .. $cdiff[7]-1 ];```
# or
  @hunk3a = @a[1 .. 3-1];
  @hunk3a = @b[0 .. 2-1];
# or
  @hunk3a = @a[1 .. 2];
  @hunk3a = @b[0 .. 1];
# or
  @hunk3a = qw(b c);
  @hunk3a = qw(b c);

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B.
Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[$i]>$ and C<$B[$j]>$ which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[$i]>$ and arrow B is pointing to C<$B[$j]>$.

When this happens, C<traverse_sequences> will call the C.MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

    traverse_sequences(
Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, `traverse_sequences` will call the A_FINISHED callback when it advances arrow B, if there is such a function; if not it will call DISCARD_B instead. Similarly if arrow B finishes first. `traverse_sequences` returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure.

At present there is no way to fail.

`traverse_sequences` may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```perl
traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    },
    undef,     # default key-gen
    $myArgument1,
    $myArgument2,
    $myArgument3,
);
```

`traverse_sequences` does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.
C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C.MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

traverse_balanced(  \@seq1, \@seq2,  \{   MATCH => $callback_1,  DISCARD_A => $callback_2,  DISCARD_B => $callback_3,  CHANGE    => $callback_4,  \}  );

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator ****.
Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );
$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```perl
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

=head1 LICENSE

Parts Copyright (c) 2000-2004 Ned Konz. All rights reserved.
Parts by Tye McQueen.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl.

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/Manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-targz/Algorithm-Diff-l.1903/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-targz/Algorithm-Diff-l.1903/diffnew.pl
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w
#
# "Diff" program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
# # This program is free software; you can redistribute it and/or modify it
# # under the same terms as Perl itself.
# # Altered to output in `context diff` format (but without context)
# # September 1998 Christian Murphy (cpm@muc.de)
# # Command-line arguments and context lines feature added
# # September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
# # In this file, "item" usually means "line of text", and "item number" usually
# # means "line number". But theoretically the code could be used more generally
# # use strict;
open Algorithm::Diff qw(diff);
use File::stat;
use vars qw($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
   -c will do a context diff with 3 lines of context
   -C will do a context diff with 'lines' lines of context
   -u will do a unified diff with 3 lines of context
   -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;
open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;
# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($st->mtime), "\n";

my ($hunk, $oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(@f1, @f2);
    }
}

continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(@f1, @f2);
exit 1;

# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the # context surrounding each block. (So if we're not using context, every # hunk will contain one block.)
{
    package Hunk;

    sub new {
        # Arg1 is output from &LCS::diff (which corresponds to one Block)
        # Arg2 is the number of items (lines, e.g.,) of context around each block
        #
This subroutine changes $File_Length_Difference

# Fields in a Hunk:
# blocks - a list of Block objects
# start - index in file 1 where first block of the hunk starts
# end - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
# until but NOT including this one
# after_diff - difference due to all hunks including this one

my ($class, $piece, $context_items) = @_;

my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->"length_diff";
$File_Length_Difference += $block->"length_diff";

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->"item_no" : -1;
$a2 = @remove_array ? $remove_array[-1]->"item_no" : -1;
$b1 = @insert_array ? $insert_array[0]->"item_no" : -1;
$b2 = @insert_array ? $insert_array[-1]->"item_no" : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1   = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2   = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);
return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;    
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
                 $#f1 - $end1 :
                 $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;    
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
            $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;    

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift @{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}};
}
# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...

sub output_diff {
    if (defined $main::opt_u) &output_unified_diff(@_)
    elsif (defined $main::opt_c) &output_context_diff(@_)
    else {die "unknown diff"}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@
    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*---don't take
    # removed items into account.
    my $low = $hunk->"start1";
    my $hi = $hunk->"end1";
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@{ $hunk->"blocks" }) {
        foreach my $item ($block->remove) {
            my $op = $item->"sign"; # -
            my $offset = $item->"item_no" - $low + $num_added;
            $outlist[$offset] =~ s/^/\$op/;
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->"sign"; # +
            my $i = $item->"item_no";
            my $offset = $i - $hunk->"start2" + $num_removed;
            splice(@outlist,$offset,0,"$op$$fileref2[$i]");
            $num_added++;
        }
    }
    map {s/$/

    print @outlist;
}

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    print "***************
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****\n";
    my $low = $hunk->"start1";
    my $hi  = $hunk-"end1";
    if (@blocklist = grep {$_->remove} @{$hunk-"blocks"}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block-"op"; # - or !
            foreach my $item ($block-"remove") {
                $outlist[$item-"item_no" - $low] =~ s/^/$op/; 
            }
        }
        map {s/$/\n/} @outlist; # add \n's
        print @outlist;
    }

    print "--- $range2 ----\n";
    $low = $hunk-"start2";
    $hi  = $hunk-"end2";
    if (@blocklist = grep {$_->insert} @{$hunk-"blocks"}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block-"op"; # + or !
            foreach my $item ($block-"insert") {
                $outlist[$item-"item_no" - $low] =~ s/^/$op/; 
            }
        }
        map {s/$/\n/} @outlist; # add \n's
        print @outlist;
    }
}

```
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;  
my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
$start++; $end++;  # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;

sub unified_range {
  # Generate a range of item numbers to print for unified diff
  # Print number where block starts, followed by number of lines in the block
  # (don't print number of lines if it's 1)
  my ($hunk, $flag) = @_;  
  my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $length = $end - $start + 1;
  my $first = $length < 2 ? $end : $start; # strange, but correct...
  my $range = $length== 1 ? $first : "$first,$length";
  return $range;
}

}  # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
  package Block;
  sub new {
    # Input is a chunk from &Algorithm::LCS::diff
    # Fields in a block:
    # length_diff - how much longer file 2 is than file 1 due to this block
    # Each change has:
    # sign        - '+' for insert, '-' for remove
    # item_no     - number of the item in the file (e.g., line number)
    # We don't bother storing the text of the item
    #
    my ($class,$chunk) = @_;  
    my @changes = ();
    # This just turns each change into a hash.
    foreach my $item (@$chunk) {
      my ($sign, $item_no, $text) = @$item;
      my $hashref = {"sign" => $sign, "item_no" => $item_no};
      push @changes, $hashref;
    }

    return $class->new(@changes);
  }

  # Input is a chunk from &Algorithm::LCS::diff
  # Fields in a block:
  # length_diff - how much longer file 2 is than file 1 due to this block
  # Each change has:
  # sign        - '+' for insert, '-' for remove
  # item_no     - number of the item in the file (e.g., line number)
  # We don't bother storing the text of the item
  
  # This just turns each change into a hash.
  foreach my $item (@$chunk) {
    my ($sign, $item_no, $text) = @$item;
    my $hashref = {"sign" => $sign, "item_no" => $item_no};
    push @changes, $hashref;
  }

  # Input is a chunk from &Algorithm::LCS::diff
  # Fields in a block:
  # length_diff - how much longer file 2 is than file 1 due to this block
  # Each change has:
  # sign        - '+' for insert, '-' for remove
  # item_no     - number of the item in the file (e.g., line number)
  # We don't bother storing the text of the item
  
  # This just turns each change into a hash.
  foreach my $item (@$chunk) {
    my ($sign, $item_no, $text) = @$item;
    my $hashref = {"sign" => $sign, "item_no" => $item_no};
    push @changes, $hashref;
  }

  return $class->new(@changes);
}

}  # end Package Block
my $block = { "changes" => \@changes };  
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;  
return $block;

# LOW LEVEL FUNCTIONS

sub op {  
# what kind of block is this?  
my $block = shift;  
my $insert = $block->insert;  
my $remove = $block->remove;

$remove && $insert and return '!';  
$remove and return '-';  
$insert and return '+';  
warn "unknown block type";  
return '^'; # context block
}

# Returns a list of the changes in this block that remove items  
# (or the number of removals if called in scalar context)  
sub remove { return grep {$_->{"sign"} eq '-' } @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items  
sub insert { return grep {$_->{"sign"} eq '+' } @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-tar-gz/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_require:
  ExtUtils::MakeMaker: '0'
configure_require:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-targ.gz/Algorithm-Diff-1.1903/META.yml
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach Schunk (@$diffs) {

foreach $line (@$chunk) {
    my ($sign, $lineno, $text) = @$line;
    printf "%-4d$sign %s\n", $lineno+1, $text;
}  
print "--------\n";
}  
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-tar-gz/Algorithm-Diff-1.1903/diff.pl

1.806 libcap 2.22-11.el7
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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ASN.1 library for Python

```
.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (ASN.1)
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>` library implements ASN.1 support in pure-Python.

What is ASN.1
```

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting
In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

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

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

   /example-use-case

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

.. toctree::
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   /download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

   /changelog

License
-------

The PyASN1 software is distributed under 2-clause BSD License.
Getting help
------------


Books on ASN.1
--------------

The `pyasn1` implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


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

Found in path(s):
* `/opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0-4-2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst`

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ASN.1 library for Python
------------------------

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.python.org/pypi/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.python.org/pypi/pyasn1/)
This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      )
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.812 elfutils 0.179-r0

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1.816 pkg-config 0.27.1 4.el7

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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Alain Vongsouvanhalain <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@gmail.com>
Kostik Shtoyk <kostik@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@gmail.com>
Scott Van Woudenberg <scottvw@gmail.com>
Takashi Matsuo <tmatsuo@google.com>

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package api

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

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\) All rights reserved\(\)*  (//|#) Use of this source code is governed by a BSD-style   (//|#) license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{  "tools.go": true, // This file requires another comment above the license.  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }

    if err != nil {
      return err
    }

    if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
      src, err := ioutil.ReadFile(path)
      if err != nil {
        return nil
      }
    }
  })
}
// Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

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

1.831 jakarta-annotation-api 1.3.4

1.831.1 Available under license:

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1.833 rcrowley-go-metrics 0.0.0-20181016184325

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1.836 rootfiles 8.1 11.el7
1.836.1 Available under license :

Summary: The basic required files for the root user's directory
Name: rootfiles
Version: 8.1
Release: 11%{?dist}
License: Public Domain
Group: System Environment/Base

# This is a Red Hat maintained package which is specific to
# our distribution. Thus the source is only available from
# within this srpm.
Source0: dot-bashrc
Source1: dot-bash_profile
Source2: dot-bash_logout
Source3: dot-tcshrc
Source4: dot-cshrc
The rootfiles package contains basic required files that are placed in the root user's account. These files are basically the same as those in /etc/skel, which are placed in regular users' home directories.

%prep

%install
rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT/root

for file in %{SOURCE0} %{SOURCE1} %{SOURCE2} %{SOURCE3} %{SOURCE4} ; do
  f=`basename $file`
  install -p -m 644 $file $RPM_BUILD_ROOT/root/$f
done

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%config(noreplace) /root/[A-Za-z]*

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 8.1-11
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Mar 30 2009 Ondrej Vasik <ovasik@redhat.com> - 8.1-5
  - removed clear from dot-bash_logout (synchronized with bash,
related to #429406
- removed unset USERNAME from dot-bash_profile (synchronized with bash, related to #196735)

* Mon Mar 23 2009 Phil Knirsch <pknirsch@redhat.com> - 8.1-4
  - Added the "we-are-upstream" comments according to Fedora review (#226376)
  - Added -p option to install to preserve timestamps (#226376)

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Fri Oct 31 2008 Ondrej Vasik <ovasik@redhat.com> - 8.1-2
  - Add dist tag, fix a few rpmlint issues, rebuild due to wrong vendor (#451229)
  - Added ncurses requirement(#469390)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.1-1.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 3 2004 Bill Nottingham <notting@redhat.com> 8.1-1
  - restore tcsh prompt into .tcshrc (#141782)

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com> 8-1
  - sync files with current /etc/skel stuff
  - remove Xresources (#75666)

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

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

* Wed Dec 11 2002 Tim Powers <timp@redhat.com> 7.2-5
  - rebuild

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

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

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

* Thu Jul 5 2001 Preston Brown <pbrown@redhat.com> 7.2-1
- /sbin stuff out of PATH, moved into /etc/profile

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

* Tue Jul 11 2000 Preston Brown <pbrown@redhat.com>
  - fix .tcshrc

* Mon Jul  3 2000 Jakub Jelinek <jakub@redhat.com>
  - don't assume ASCII ordering in glob pattern

* Sat Jun 10 2000 Bill Nottingham <notting@redhat.com>
  - rebuild
  - fix some path stuff (#11191)

* Tue Apr 18 2000 Bill Nottingham <notting@redhat.com>
  - mv .Xdefaults -> .Xresources (#10623)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 5)

* Tue Jan 12 1999 Jeff Johnson <jbj@redhat.com>
  - add %%clean (#719)

* Tue Dec 29 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Wed Oct  9 1998 Bill Nottingham <notting@redhat.com>
  - remove /root from %%files (it's in filesystem)

* Sun Aug 23 1998 Jeff Johnson <jbj@redhat.com>
  - portability fix for .cshrc (problem #235)
  - change version to be same as release.

* Tue Sep 09 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package

* Thu Mar 20 1997 Erik Troan <ewt@redhat.com>
  - Removed .Xclients and .Xsession from package, added %%pre to back up old
    .Xclients if necessary.

---

1.837 bean-validation-api 1.1.0.Final

1.837.1 Available under license :

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  jar/javax/validation/BootstrapConfiguration.java
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  jar/javax/validation/ConstraintValidatorFactory.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-
  jar/javax/validation/ValidatorContext.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-
  jar/javax/validation/ConstraintViolationException.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-
  jar/javax/validation/spi/ConfigurationState.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1.1.0-final-sources-jar/javax/validation/constraintvalidation/package-info.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1.1.0-final-sources-jar/javax/validation/bootstrap/package-info.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1.1.0-final-sources-jar/javax/validation/package-info.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/package-info.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/MessageInterpolator.java
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* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMax.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/BeanDescriptor.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolation.java
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  jar/javax/validation/Configuration.java

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1.840 ubuntu-keyring 2018.09.18.1~18.04.0
1.840.1 Available under license :

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1.841 masterminds-semver 3.1.0

1.841.1 Available under license:

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1.842 x-net 13f9640d40b9

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1.843 cyrus-sasl 2.1.26 23.el7

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 * Rob Earhart
 * Rob Siemborski
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1.844 metrics-jvm 4.0.3

1.845 python-defaults 2.7.13 2

1.845.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.846 tzdata 2019c 0+deb10u1

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1.847 jackson-module-paranamer 2.10.0

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1.849 netty-codec 4.1.48.Final

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*/
/**
 * A decoder that splits the received [@link ByteBuf]s dynamically by the
 * value of the length field in the message. It is particularly useful when you
decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* 
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* 
* The value of the length field in this example is \(<tt>12 \text{ (0x0C)}\)</tt> which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.
* 
* <pre>
* <b>lengthFieldOffset</b>   = \(<b>0</b>\)
* <b>lengthFieldLength</b>   = \(<b>2</b>\)
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <h3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling \{@link ByteBuf#readableBytes()\}, you might want to strip the length field by specifying \(<tt>initialBytesToStrip</tt>\). In this example, we specified \(<tt>2</tt>\), that is same with the length of the length field, to strip the first two bytes.
* 
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = \(<b>2</b>\) (= the length of the Length field)
* </pre>

* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* 3 bytes length field at the end of 5 bytes header, do not strip header</h3>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* 3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
* 
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
* +----------------+-----------------+-----------------+-----------------+
* | Length | Header 1 | Actual Content | Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +----------------+-----------------+-----------------+-----------------+
* </pre>
*
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the lengthFieldOffset and the extra
* header affects the lengthAdjustment. We also specified a non-zero
* initialBytesToStrip to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify 0 for initialBytesToSkip.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* </pre>
*
* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-----------------------------+-----------------------------+
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
* +-----------------------------+-----------------------------+
* </pre>
*
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into lengthAdjustment.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* </pre>
*
* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +-----------------------------+-----------------------------+
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* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------------+              +----------------+
* </pre>
* @see LengthFieldPrepender
* /

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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
  jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4.1.48-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java

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jar/io/netty/handler/codec/DefaultHeadersImpl.java

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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/DecoderException.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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jar/io/netty/handler/codec/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshalProvider.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshalProvider.java
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jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
jar/io/netty/handler/codec/marshalling/UnmarshalProvider.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
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jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
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jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
*<p>
The encoding and decoding algorithm in this class has been derived from
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  jar/io.netty.handler.codec/compression/Bzip2BitReader.java
* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
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**1.852 jaeger-client 1.1.0**

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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the source code distributed need not include anything that is normally
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which the executable runs, unless that component itself accompanies
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1.858 units 0.0.0-20151022065526

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1.861 dmidecode 3.2 3.el7
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// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
// Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
SetNoticeHandler(c, n.noticeHandler)
}
return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
if c, ok := c.(*NoticeHandlerConnector); ok {
return c.noticeHandler
}
return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
if c, ok := c.(*NoticeHandlerConnector); ok {
    c.noticeHandler = handler
return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Crc32.java
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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  jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/netty-codec-4.1-45-final-sources-1.jar/io/netty/handler/code/serialization/ClassLoaderClassResolver.java
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * Base64 Encoder/Decoder</a>.
 */

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/string/LineSeparator.java

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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
<tt>
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0 (= do not strip header)
</tt>
```

BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+

```
<tt>
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
</tt>
```

BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+

Because we can get the length of the content by calling `ByteBuf#readableBytes()`, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+

```

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero
*<tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as 
* <tt>lengthAdjustment</tt> for compensation.

* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;-2&lt;/b&gt; (= the length of the Length field)
* initialBytesToStrip =  0
* 
* * BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
* 
* The following message is a simple variation of the first example. An extra 
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero 
* again because the decoder always takes the length of the prepended data into 
* account during frame length calculation.

* <pre>
* &lt;b&gt;lengthFieldOffset&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1)
* &lt;b&gt;lengthFieldLength&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt;
* lengthAdjustment    = 0
* initialBytesToStrip = 0
* 
* * BEFORE DECODE (17 bytes)     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
* 
* This is an advanced example that shows the case where there is an extra 
* header between the length field and the message body. You have to specify a 
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra 
* header into the frame length calculation.

* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  3
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1)
* initialBytesToStrip = 0
* 
* * BEFORE DECODE (17 bytes)     AFTER DECODE (17 bytes)
<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

**BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)**

* HDR1 | Length | HDR2 | Actual Content |
* 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

* HDR1 | Length | HDR2 | Actual Content |
* 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |

<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

**BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)**

* HDR1 | Length | HDR2 | Actual Content |
* 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |

**BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)**

* HDR1 | Length | HDR2 | Actual Content |
* 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD"
* +----------------+----------------+----------------+
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
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  jar/io/netty/handler/codec/compression/Crc32c.java
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1.868 x-sys 0.0.0-20190616124812

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bzip2/libbzzip2 version 1.0.8 of 13 July 2019

1.870 libdevmapper 1.02.171-5

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1.871 iw 4.3-2.el7

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Mathis Rosenhauer, Moritz Hanke, Joerg Behrens
Deutsches Klimarechenzentrum GmbH
Bundesstr. 45a
20146 Hamburg
Germany

Luis Kornblueh
Max-Planck-Institut fuer Meteorologie
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1.884 geos 3.7.1-1~exp1

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    empty.hpp
    envelope.hpp
    for_each_point.hpp
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    multi_line_string.hpp
    multi_point.hpp
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      active_bound_list.hpp
      bound.hpp
      bubble_sort.hpp
      build_edges.hpp
      build_local_minima_list.hpp
      build_result.hpp
      config.hpp
      edge.hpp
      interrupt.hpp
      intersect.hpp
      intersect_util.hpp
      local_minimum.hpp
      local_minimum_util.hpp
      point.hpp
      process_horizontal.hpp
      process_maxima.hpp
      quick_clip.hpp
      ring.hpp
      ring_util.hpp
      scanbeam.hpp
      snap_rounding.hpp
      topology_correction.hpp
      util.hpp
      vatti.hpp
      wagyu.hpp

3 directories, 24 files
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Author    :  Angus Johnson
Version   :  6.4.0
Date      :  2 July 2015
Website   :  http://www.angusj.com

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1.886 uclibc 0.9.32.9

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Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed,  1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
by mail.bridge.intra (Postfix) with LMTP id C8C73794D
for <mps@bridge.intra>; Wed,  1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
  by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])
  by mail-blue.research.att.com (Postfix) with LMTP id B7929147CBB
for <ps.m@gmx.net>; Wed,  1 Mar 2006 14:23:45 -0500 (EST)
Received: (from gsf@localhost)
  by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
  for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: IJF3ZO9DeSEkJ2TcbHQhaXN11GRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net>           ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08  BB6E C389 975E A5F0 59F2
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1.887 websocket-client 9.4.20.v20190813

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish
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The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

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

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

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<table>
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<tr>
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<th>Owner</th>
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1.889 leveldb 1.11

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1.890 libgpg-error 1.26-2

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**1.891 python-stdlib-extensions 3.6.9-1~18.04**

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**A. HISTORY OF THE SOFTWARE**

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

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

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

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

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<td>yes</td>
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1.892 jwalterweatherman 1.0.0

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 */

1.894 go-yaml 2.0.0-20170712054546-1be3d31502d6
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    emitterc.go
    parserc.go
    readerc.go
    scanerc.go
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    yamlprivateh.go

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1.895 goprotobuf 1.4.2

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.897 xz 5.2.2 1.el7

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Version 2.1, February 1999

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package io.swagger.annotations;

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import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * @return the name of the license
 */

String name();

/**
 * An optional URL for the license.
 */
String url() default "";
}

1.899 mpdecimal 2.4.2-1ubuntu1

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Ackeret, Matt
Adler, Mark
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Anderson, Jamie
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Bowes, Keith
Boyce, Keith Garry
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Rossum, Guido van
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Rowe, William A., Jr.
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Valery, Reznic
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Venckus, Martynas
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Zacarias, Gustavo
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The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
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Castro, Felipe
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Hantrais, Frederic
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.909 dc 1.3
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1.911 pcre 8.32-14.el7
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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Written by: Zoltan Herczeg
Email local part: hzmester
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1.912 x-net 0.0.0-20190724013045

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the
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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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Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
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are the reason we use the ordinary General Public License for many
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be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.926 alpine-keys 2.2-r0
1.927 glibc 2.28-10

1.927.1 Available under license:

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**1.930 gorilla 1.7.3**

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  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api

-----

Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.944 lz4-java 1.6.0

1.945 audit 2.8.5 4.el7

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[This is the first released version of the library GPL. It is
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Preamble

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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.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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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.

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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go-runhcs is a fork of go-runc

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Protocol Buffers for Go with Gadgets

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

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

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1.968 java-compression 1.7.1

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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHash32JNI.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/StreamingXXHash64JNI.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4FastDecompressor.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4ByteBufferUtils.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Compressor.java
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* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Factory.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/util/Native.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Exception.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4SafeDecompressor.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4SafeUtils.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHash32.java
* /opt/ws_local/PERMITS_SQL/1068816920_1595472128.15/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4FrameInputStream.java
1.969 simpleclient-common 0.6.0

1.970 jna 3.4.0
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1.972 coreos-semver 0.2.0

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1.973 icu 50.2 4.el7_7
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```makefile
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
```
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS=-Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.$(SO).o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(SO).o: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.$(SO).o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $<\n| sed "\"s/\(^.*\)\.o[ :]*\n\| \-s $@ ]\" ll-f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $<\n| sed "\"s/\(^.*\)\.o[ :]*\n\| \-s $@ ]\" ll-f $@’

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${<F}.$(SO).$(SO_TARGET_VERSION) $@

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1.974 vertx-core 3.8.5

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1.975 simpleclient 0.7.0

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1.976 jackson-databind 2.10.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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1.977 nghttp2 1.30.0-1ubuntu1

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: nghttp2
Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>
Source: https://github.com/tatsuhiro-t/nghttp2

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1.978 diffutils 3.3 5.el7
1.978.1 Available under license:

From RPM File Metadata:GPLv3+
/* diff - compare files line by line


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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
    proper_name ("Paul Eggert"), \
    proper_name ("Mike Haertel"), \
    proper_name ("David Hayes"), \
    proper_name ("Richard Stallman"), \
    proper_name ("Len Tower"

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
    char *regexps; /* chars representing disjunction of the regexps */
    size_t len; /* chars used in 'regexps' */
    size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps; /* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
 recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
 On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
 Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =

/* Values for long options that do not have single-letter equivalents. */
enum {
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
static char const group_format_option[][
sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][
sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    /* These options must be in sequence. */
    {"unchanged-group-format", 0, 0, UNCHANGED_GROUP_FORMAT_OPTION},
    {"old-group-format", 0, 0, OLD_GROUP_FORMAT_OPTION},
    {"new-group-format", 0, 0, NEW_GROUP_FORMAT_OPTION},
    {"changed-group-format", 0, 0, CHANGED_GROUP_FORMAT_OPTION},
};
/* Return a string containing the command options with which diff was invoked. 
Spaces appear between what were separate ARGV-elements. 
There is a space at the beginning but none at the end. 
If there were no options, the result is an empty string. 

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, 
the length of that vector. */

static char *
option_list (char **optionvec, int count)
{
  int i;
  size_t size = 1;
  char *result;
  char *p;

  for (i = 0; i < count; i++)
    size += 1 + shell_quote_length (optionvec[i]);

  p = result = xmalloc (size);

  for (i = 0; i < count; i++)
    {
      *p++ = ' '; 
      p = shell_quote_copy (p, optionvec[i]);
    }

  *p = '\0';
  return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
  return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
  int exit_status = EXIT_SUCCESS;

  /* */
int c;
int i;
int prev = -1;
lin ocontext = -1;
bool explicit_context = false;
size_t width = 0;
bool show_c_function = false;
char const *from_file = NULL;
char const *to_file = NULL;
uintmax_t numval;
char *numend;

/* Do our initializations. */
exit_failure = EXIT_TROUBLE;
initialize_main (&argc, &argv);
set_program_name (argv[0]);
setlocale (LC_ALL, "");
bindtextdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */
while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
{
    case 0:
        break;
    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
ocontext = LIN_MAX;
break;

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
{
    if (optarg)
    {
        numval = strtomax (optarg, &numend, 10);
        if (*numend)
            try_help ("invalid context length ‘%s’, optarg");
        if (LIN_MAX < numval)
            numval = LIN_MAX;
        else
            numval = 3;
    }
    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
    {
        context = numval;
        explicit_context = true;
    }
    break;
}

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
    {
        context = 3;
    }
    break;
case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
"%=%c ifndef %s \#endif /* ! %s */
%=%c define %s \#endif /* %s */
%=%c ifndef %s \#else /* %s */
%=%c define %s */
        char *b = xmalloc (sizeof C_ifdef_group_formats
+ 7 * strlen (optarg) - 14 /* 7*"%s" */
- 8 /* 5"%c" + 3"c" */);
        sprintf (b, C_ifdef_group_formats,
0,
        optarg, optarg, 0,
        optarg, optarg, 0,
        optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            specify_value (&group_format[i], b, '-D');
        b += strlen (b) + 1;
    }
    break;

case 'e':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

This currently has no effect. */
break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'T':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'T':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
    #ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
    #endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]]$\_");
    break;

case 'P':
unidirectional_new_file = true;
break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
if (add_exclude_file (add_exclude, excluded, optarg, exclude_options (), 'n'))
    pfatal_with_name (optarg);
break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ([invalid width '%s', optarg]);
    if (width != numval)
    {
        if (width)
            fatal ([conflicting width options]);
        width = numval;
    }
    break;

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (!isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, [--from-file]);
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ([invalid horizon length '%s', optarg]);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;
case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
try_help ("invalid tabsize "ervas", optarg);
if (tabsize != numval)
{
    if (tabsize)
        fatal ("conflicting tabsize options");
    tabsize = numval;
}
break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
break;

default:
    try_help (NULL, NULL);
}
    prev = c;

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}
if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \ 
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S,%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
    || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
    || (ocontext < context && ! explicit_context)))
    context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

       1. Two half lines plus a gutter must fit in a line.
       2. If the half line width is nonzero:
           a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
           b. If tabs are not expanded to spaces,
              a half line plus a gutter is an integral number of tabs,
              so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        if (!line_format[i])
            line_format[i] = "\n";
    if (!group_format[OLD])
        group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "\<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "\>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "\=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD], group_format[NEW], "");
}

no_diff_means_no_output =
    (output_style == OUTPUT_IFDEF ?
        (!*group_format[UNCHANGED] || (STREQ (group_format[UNCHANGED], "\=")
        && !*line_format[UNCHANGED])
    : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
    (brief & binary
    & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
    | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
        fatal ("--from-file and --to-file both specified");
    else
        for (; optind < argc; optind++)
        {
            int status = compare_files (NULL, from_file, argv[optind]);
            if (exit_status < status)
                exit_status = status;
        }
}
else
{
  if (to_file)
    for (; optind < argc; optind++)
    {
      int status = compare_files (NULL, argv[optind], to_file);
      if (exit_status < status)
        exit_status = status;
    }
  else
    {
      if (argc - optind != 2)
        {
          if (argc - optind < 2)
            try_help ("missing operand after " ARGV_APPEND_OP "", argv[argc - 1]);
          else
            try_help ("extra operand " ARGV_APPEND_OP "", argv[optind + 2]);
        }
      exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
    }
}

/* Print any messages that were saved up for last. */
print_message_queue ();
check_stdout ();
exit (exit_status);
return exit_status;

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
  size_t patlen = strlen (pattern);
  char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
  if (m != 0)
    error (0, 0, "%s: %s", pattern, m);
  else
    {
      char *regexps = reglist->regexps;
      size_t len = reglist->len;
      bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
      size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
size_t size = reglist->size;

if (size <= newlen)
{
  if (!size)
    size = 1;

do size *= 2;
while (size <= newlen);

reglist->size = size;
reglist->regexps = regexps = xrealloc (regexps, size);
}
if (multiple_regexps)
{
  regexps[len++] = '\';
  regexps[len++] = '|';
  memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps. This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void summarize_regexp_list (struct regexp_list *reglist)
{
  if (reglist->regexps)
  {
    /* At least one regexp was specified. Allocate a fastmap for it. */
    reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
    if (reglist->multiple_regexps)
    {
      /* Compile the disjunction of the regexps. (If just one regexp was specified, it is already compiled.) */
      char const *m = re_compile_pattern (reglist->regexps, reglist->len, reglist->buf);
      if (m)
        error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
    }
  }

static void try_help (char const *reasonmsgid, char const *operand)
{
  if (reasonmsgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort ();
}

static void
check_stdout (void)
{
  if (ferror (stdout))
    fatal ("write failed");
  else if (fclose (stdout) != 0)
    pfatal_with_name ("standard output");
}

static char const * const option_help_msgid[] = {
  N_("--normal                  output a normal diff (the default)")
N_("--q, --brief               report only when files differ")
N_("--s, --report-identical-files report when two files are the same")
N_("--c, -C NUM, --context[NUM] output NUM (default 3) lines of copied context")
N_("--u, -U NUM, --unified[NUM] output NUM (default 3) lines of unified context")
N_("--e, --ed                    output an ed script")
N_("--n, --rcs                   output an RCS format diff")
N_("--y, --side-by-side         output in two columns")
N_("--W, --width[NUM]           output at most NUM (default 130) print columns")
N_("--left-column               output only the left column of common lines")
N_("--suppress-common-lines     do not output common lines")
"""
N_("--p, --show-c-function       show which C function each change is in")
N_("--F, --show-function-line=RE show the most recent line matching RE")
N_("--label LABEL               use LABEL instead of file name
                                    (can be repeated)")
"""
N_("--t, --expand-tabs           expand tabs to spaces in output")
N_("--T, --initial-tab          make tabs line up by prepending a tab")
N_("--tabsize[NUM]              tab stops every NUM (default 8) print columns")
N_("--suppress-blank-empty      suppress space or tab before empty output lines")
N_("--l, --paginate             pass output through 'pr' to paginate it")
"""
N_("--r, --recursive            recursively compare any subdirectories found")
N_("--no-dereference            don't follow symbolic links")
N_("--N, --new-file             treat absent files as empty")
N_("--unidirectional-new-file   treat absent first files as empty")
N_("--ignore-file-name-case     ignore case when comparing file names")
N_("--no-ignore-file-name-case  consider case when comparing file names")
N_("--x, --exclude=PAT          exclude files that match PAT")
N_("--X, --exclude-from=FILE    exclude files that match any pattern in FILE")
N_("--S, --starting-file=FILE   start with FILE when comparing directories")
"""
Treat all files as text),
N_(" --strip-trailing-cr strip trailing carriage return on input"),
# if O_BINARY
N_(" --binary read and write data in binary mode"),
# endif

N_(" --ifdef=NAME output merged file with '#ifdef NAME' diffs"),
N_(" --GTYPE-group-format=GFMT format GTYPE input groups with GFMT"),
N_(" --line-format=LFMT format all input lines with LFMT"),
N_(" --LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_(" These format options provide fine-grained control over the output
    of diff, generalizing -D/--ifdef."),
N_(" LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'."),
N_(" GFMT (only) may contain:
    %< lines from FILE1\n
    %> lines from FILE2\n
    %= lines common to FILE1 and FILE2\n
    %[-][WIDTH][.][PREC][\{doxX\}]LETTER printf-style spec for LETTER\n
    LETTERs are as follows for new group, lower case for old group:\n        F first line number\n        L last line number\n        N number of lines = L-F+1\n        E F-1\n        M L+1\n
        %(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:
    %< contents of line\n
    %> contents of line, excluding any trailing newline\n
    %[-][WIDTH][.][PREC][\{doxX\}]n printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:
    %\% \%\n
    %c'C' the single character C\n
    %c'O00' the character with octal code O00\n
    C the character C (other characters represent themselves)"),
**Usage:**

Usage: %s [OPTION]... FILE

Compare FILE line by line.

Mandatory arguments to long options are mandatory for short options too.

Possible options:

- **-d, --minimal**
  try hard to find a smaller set of changes

- **--horizon-lines=NUM**
  keep NUM lines of the common prefix and suffix

- **--speed-large-files**
  assume large files and many scattered small changes

- **--help**
  display this help and exit

- **-v, --version**
  output version information and exit

FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.

If --from-file or --to-file is given, there are no restrictions on FILE(s).

If a FILE is '-', read standard input.

Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.

0

static void

usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILE\n"), program_name);
    printf (_("Compare FILE line by line\n"));

    fputs (_("\n Mandatory arguments to long options are mandatory for short options too.\n "), stdout);

    for (p = option_help_msgid;  *p;  p++)
    {
        if (!**p)
            putchar ('\n');
        else
        {
            char const *msg = _(*p);
            char const *nl;
            while ((nl = strchr (msg, '\n')))
            {
                int msglen = nl + 1 - msg;
                printf (_("  %.*s", msglen, msg);
                msg = nl + 1;
            }
            printf (_("  %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
        }
    }
    emit_bug_reporting_address ();
}

/* Set VAR to VALUE, reporting an OPTION error if this is a
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}

/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
#if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
#else defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
#endif
#endif

/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.
Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
        char const *name0,
        char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
register int f;
int status = EXIT_SUCCESS;
bool same_files;
char *free0;
char *free1;

    /* If this is directory comparison, perhaps we have a file
     * that exists only in one of the directories.
     * If so, just print a message to that effect. */

    if (! ((name0 && name1)
        || (unidirectional_new_file && name1)
        || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s
", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return
         * EXIT_FAILURE ("some files differ"). */
        return EXIT_FAILURE;
    }

    memset (cmp.file, 0, sizeof cmp.file);
    cmp.parent = parent;

    /* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

    cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
    cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;
/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0 = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1 = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].desc = STDIN_FILENO;
                }
            }
        }
    }
}
cmp.file[f].stat.st_size =
MAX (0, cmp.file[f].stat.st_size - pos);
}

/* POSIX 1003.1-2001 requires current time for stdin. */
set_mtime_to_now (&cmp.file[f].stat);
}
}
else if ((no_dereference_symlinks
? lstat (cmp.file[f].name, &cmp.file[f].stat)
: stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are inaccessible empty regular files (the kind of files that 'patch' creates to indicate nonexistent backups), or if they are top-level files that do not exist but their counterparts do exist. */
for (f = 0; f < 2; f++)
if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
? (S_ISREG (cmp.file[f].stat.st_mode)
&& ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
&& cmp.file[f].stat.st_size == 0)
: ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
|| cmp.file[f].desc == ERRNO_ENCODE (EBADF))
&& ! parent
&& (cmp.file[1 - f].desc == UNOPENED
|| cmp.file[1 - f].desc == STDIN_FILENO)))))
cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
if (cmp.file[f].desc == NONEXISTENT)
{
memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
}

for (f = 0; f < 2; f++)
{
int e = ERRNO_DECODE (cmp.file[f].desc);
if (0 <= e)
{
errno = e;
perror_with_name (cmp.file[f].name);
status = EXIT_TROUBLE;
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
        = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, ".")
        fatal ("cannot compare '-' to a directory");

    if ((no_dereference_symlinks
        ? lstat (filename, &cmp.file[dir_arg].stat)
        : stat (filename, &cmp.file[dir_arg].stat))
        != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }

if (status != EXIT_SUCCESS)
    {
        /* One of the files should exist but does not. */
    }
else if (cmp.file[0].desc == NONEXISTENT
    && cmp.file[1].desc == NONEXISTENT)
    {
        /* Neither file "exists", so there's nothing to compare. */
    }
else if ((same_files
        = (cmp.file[0].desc != NONEXISTENT
            && cmp.file[1].desc != NONEXISTENT
            && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
            && same_file_attributes (&cmp.file[0].stat,
                &cmp.file[1].stat)))
        && no_diff_means_no_output)
    {
        /* The two named files are actually the same physical file. */

We know they are identical without actually reading them. */
}
else if (DIR_P(0) & DIR_P(1))
{
    if (output_style == OUTPUT_IFDEF)
fatal("-D option not supported with directories");

    /* If both are directories, compare the files in them. */
    if (parent & !recursive)
    {
        /* But don't compare dir contents one level down
         * unless -r was specified.
         * See POSIX 1003.1-2001 for this format. */
        message("Common subdirectories: %s and %s
", cmp.file[0].name, cmp.file[1].name);
    }
    else
    status = diff_dirs(&cmp, compare_files);
}
else if ((DIR_P(0) | DIR_P(1))
    || (parent & !((S_ISREG(cmp.file[0].stat.st_mode)
        || S_ISLNK(cmp.file[0].stat.st_mode))
    & (S_ISREG(cmp.file[1].stat.st_mode)
        || S_ISLNK(cmp.file[1].stat.st_mode))))
    {
        if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
        {
            /* We have a subdirectory that exists only in one directory. */
            if ((DIR_P(0) | DIR_P(1))
                & & recursive
                & & (new_file
                    || (unidirectional_new_file
                        & & cmp.file[0].desc == NONEXISTENT)))
                status = diff_dirs(&cmp, compare_files);
            else
            {
                char const *dir;

                /* PARENT must be non-NULL here. */
                assert(parent);
                dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

                /* See POSIX 1003.1-2001 for this format. */
                message("Only in %s: %s
", dir, name0);
status = EXIT_FAILURE;
}
}
else
{
/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5 ("File %s is a %s while file %s is a %s\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_type (&cmp.file[0].stat),

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))
{
/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode)
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
  link_value[f] = xreadlink (cmp.file[f].name);
  if (link_value[f] == NULL)
  {
    perror_with_name (cmp.file[f].name);
    status = EXIT_TROUBLE;
    break;
  }
}
if (status == EXIT_SUCCESS)
{
  if ( ! STREQ (link_value[0], link_value[1]))
  {
    message ("Symbolic links %s and %s differ\n", cmp.file[0].name, cmp.file[1].name);
    /* This is a difference. */
    status = EXIT_FAILURE;
  }
}
for (f = 0; f < 2; f++)
    free (link_value[f]);
}
else
{
    /* We have two files that are not to be compared, because
     * one of them is a symbolic link and the other one is not. */
    message5 ("File %s is a %s while file %s is a %s\n", 
              file_label[0] ? file_label[0] : cmp.file[0].name, 
              file_type (&cmp.file[0].stat), 
              file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary 
    && S_ISREG (cmp.file[0].stat.st_mode) 
    && S_ISREG (cmp.file[1].stat.st_mode) 
    && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n", 
              file_label[0] ? file_label[0] : cmp.file[0].name, 
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED) 
        if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0) 
            perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (cmp.file[1].desc == UNOPENED) 
        if (same_files) 
            cmp.file[1].desc = cmp.file[0].desc;
else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}
}

/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
&& close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it,
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical\n",
file_label[0] ? file_label[0] : cmp.file[0].name,
}
else
{
    /* Flush stdout so that the user sees differences immediately.
This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
    pfatal_with_name (_("standard output"));
}

free (free0);
free (free1);
return status;
}

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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Stefan Reinauer

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

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

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"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

4. You may copy and distribute the Library (or a portion or
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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
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threshold for this to be true is not precisely defined by law.

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

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

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

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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

c) Accompany the work with a written offer, valid for at
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s")", %d, %#x" }, NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s")", %d, %#x" }, NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s")", %d, %#x" }, NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s")", %d, %#x" }, NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s")", %d, %#x" }, NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s")", %d, %#x" }, NULL, NULL },

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{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s("%s"), %d, %d, %#x"), NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s("%s"), %d, %d, %#x"), NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adtime, "adtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x")", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_exitctl, "exitctl", "%s("%s"), %d, \"%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s"), %d, \"%s", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s"), %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s"), %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s"), %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "%s("%s"), %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s"), %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s"), %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s"), %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s"), %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d, %#o)", NULL, NULL },

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{ TARGET_FREEBSD_NR_rtprv0_thread, "rtprv0_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
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Key Dates
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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
- https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
- https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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   -= Change Description / Commit Message / Patch Email =-

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

== Start of sample patch email message ==

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message
Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change. The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

== Start of sample patch email message ==

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

---
An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c	7 Sep 2007 10:01:21 -0000	1.1
+++ debug.c	15 Jan 2008 13:49:25 -0000	1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
     }
     if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
         printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
 for (i=0; i< M.x86.enc_pos; i++) {
     sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
 } 
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
 } 

 static void print_decoded_instruction (void)
 Index: ops2.c
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000
+++ ops2.c 20 Mar 2008 15:48:34 -0000
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+**************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+    // perform the byte swap
+    s32 temp = reg;
+    reg = (temp & 0xFF000000) >> 24;
+    reg |= (temp & 0xFF0000) >> 8;
+    reg |= (temp & 0xFF00) << 8;
+    reg |= (temp & 0xFF) << 24;
+    return reg;
+}
+void x86emuOp2_bswap(u8 op2)
+{
+    /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\n");
+    switch (op2) {
+    case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+    case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R ECX = x86emu_bswap(M.x86.R ECX);
+ break;
+ case 0xca:
+  DECODE_PRINTF("EDX\n");
+  M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+  break;
+ case 0xcb:
+  DECODE_PRINTF("EBX\n");
+  M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+  break;
+ case 0xcc:
+  DECODE_PRINTF("ESP\n");
+  M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+  break;
+ case 0xcd:
+  DECODE_PRINTF("EBP\n");
+  M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+  break;
+ case 0xce:
+  DECODE_PRINTF("ESI\n");
+  M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+  break;
+ case 0xcf:
+  DECODE_PRINTF("EDI\n");
+  M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+  break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();

@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

Index: ops.c
-------------------------------------------------------------------
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
DECODE_PRINTF2("PUSH	%d
", imm);
TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
DECODE_PRINTF2("%x
", target);
TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    } else {
+        push_word(imm);
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-/* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+/* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
     M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
-    /* move them until (E)CX is ZERO. */
-    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
-        /* move them until (E)CX is ZERO. */
-        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
val1 = fetch_data_byte(M.x86.R_SI);
val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+
if (M.x86.intr & INTR_HALTED)
+
break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* REPE */
 - /* move them until CX is ZERO. */
 - while (M.x86.R_CX != 0) {
 + /* move them until (E)CX is ZERO. */
 + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
 if (M.x86.mode & SYSMODE_PREFIX_DATA) {
     val1 = fetch_data_long(M.x86.R_SI);
     val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
     val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
     cmp_word((u16)val1, (u16)val2);
 }
 - M.x86.R_CX -= 1;
 + if (M.x86.mode & SYSMODE_32BIT_REP)
 + M.x86.R_ECX -= 1;
 + else
 + M.x86.R_CX -= 1;
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+
if (M.x86.intr & INTR_HALTED)
+
break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
 - /* move them until CX is ZERO. */
 - while (M.x86.R_CX != 0) {
 + /* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
    M.x86.R_CX -= 1;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        while (M.x86.R_CX != 0) {
            M.x86.R_CX -= 1;
        }
        count = M.x86.R_CX;
    }
    while (count--) {
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    while (M.x86.R_CX != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        M.x86.R_CX -= 1;
    }
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
+ else
  + M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
  + if (M.x86.intr & INTR_HALT)
  + break;
  
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
  @ @ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
      /* move them until CX is ZERO */
      - count = M.x86.R_CX;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
      + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
      +if (M.x86.mode & SYSMODE_32BIT_REP)
      + M.x86.R_ECX = 0;
      + M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
      @ @ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
  + if (M.x86.intr & INTR_HALT)
  + break;

    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
  @ @ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE */
      - while (M.x86.R_CX != 0) {
      + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX = 1;
        + else
        + M.x86.R_CX = 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
+
}  
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -            M.x86.R_CX -= 1;
        +            if (M.x86.mode & SYSMODE_32BIT_REP)
        +                M.x86.R_ECX -= 1;
        +            else
        +                M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
    } else {
        TRACE_AND_STEP();
        if (M.x86.mode & SYSMODE_PREFIX_REPE) {
            /* REPE */
            /* move them until CX is ZERO. */
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
                if (ACCESS_FLAG(F_ZF))
                    break; /* zero flag set means equal */
            } else {
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
+
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    -    /* move them until CX is ZERO. */
    -    while (M.x86.R_CX != 0) {
    +    /* move them until (E)CX is ZERO. */
    +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    -    M.x86.R_CX -= 1;
    +    if (M.x86.mode & SYSMODE_32BIT_REP)
    +        M.x86.R_ECX -= 1;
    +    else
    +        M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;          /* zero flag set means equal */
    }
    -    M.x86.R_CX -= 1;
    +    if (M.x86.mode & SYSMODE_32BIT_REP)
    +        M.x86.R_ECX -= 1;
    +    else
    +        M.x86.R_CX -= 1;
        if (ACCESS_FLAG(F_ZF))
            break;          /* zero flag set means equal */
    +    if (M.x86.intr & INTR_HALTED)
    +        break;
+
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -3238,9 +3300,9 @@
        DECODE_PRINTF("RET\t");
        imm = fetch_word_imm();
        DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
        TRACE_AND_STEP();
            M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
                M.x86.R_SP += imm;
                DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
    @@ -3254,9 +3316,9 @@
    {
        START_OF_INSTR();
        DECODE_PRINTF("RET\t");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
        TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\t");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
M.x86.R_CX -= 1;
if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
    M.x86.R_CX -= 1;
else
    M.x86.R_CX -= 1;
if (((M.x86.mode & SYSMODE_PREFIADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 && ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
M.x86.R_CX -= 1;
if (M.x86.R_CX != 0)
    M.x86.R_CX -= 1;
else
    M.x86.R_CX -= 1;
if (((M.x86.mode & SYSMODE_PREFIADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("\x\n", target);
TRACE_AND_STEP();
if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
DECODE_PRINTF2("%04x", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

@@ -4371,6 +4449,8 @@
    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

@@@@ -5013,12 +5093,14 @@
        break;
    case 4: /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
    case 5: /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
 {
#ifdef __HAS_LONG_LONG_
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;
 *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
 {
#ifdef __HAS_LONG_LONG_
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    } if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);

    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2355,15 @@
    } if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */


/* out until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c	7 Sep 2007 10:01:21 -0000	1.1
+++ sys.c	7 Sep 2007 10:03:13 -0000	1.2
@@ -45,11 +45,6 @@
-#include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

 #ifdef IN_MODULE
 #include "xf86_ansic.h"
 @@ -220,7 +215,7 @@
 {   DB(if (DEBUG_IO_TRACE())
      printk("inb %#04x \n", addr);
      return inb(addr);
+return 0;
 }  

};

/**************************************************************************
@@ -235,7 +230,7 @@
 {   DB(if (DEBUG_IO_TRACE())
      printk("inw %#04x \n", addr);

-return inw(addr);
+return 0;
}

/****************************************************************************
@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
-    return inl(addr);
+    return 0;
}

/****************************************************************************
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
-    outb(val, addr);
    return;
}

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
-    outw(val, addr);
    return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);
-    outl(val, addr);
    return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        	(M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()    	(M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()     	(M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()  	(M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()          	(M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()    	(M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()     	(M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()       	0
# define DEBUG_TRACECALL()    	0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP()     	0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS()          	0
# define DEBUG_MEM_TRACE()    	0
# define DEBUG_IO_TRACE()     	0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     
 if (DEBUG_TRACECALL())                                     
 	printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);  
-# define RETURN_TRACE(n,u,v)
-# define RETURN_TRACE(u,v,w,x,s)
 if (DEBUG_TRACECALLREGS())
 if (DEBUG_TRACECALL())                                     
 	printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);  
+# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
 if (DEBUG_TRACECALLREGS())
 x86emu_dump_regs();                                     
 if (DEBUG_TRACECALL())                                     
 	printk("%04x:%04x: %s\n", u,v,n);
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+ if (DEBUG_TRACEJMPREGS())
+ x86emu_dump_regs();
+ if (DEBUG_TRACEJMP())

+ printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
    # define CALL_TRACE(u,v,w,x,s)
    -# define RETURN_TRACE(n,u,v)
    +# define RETURN_TRACE(u,v,w,x,s)
    +# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP     0x00000800
#define SYSMODE_INTR_PENDING   0x10000000
#define SYSMODE_EXTRN_INTR     0x20000000
#define SYSMODE_HALTED         0x40000000
@@ -250,7 +253,8 @@
               SYSMODE_Intr pending |
               SYSMODE_SegOvr GS   | \
               SYSMODE_SegOvr SS   | \
-              SYSMODE_PREFIX_ADDR)
+              SYSMODE_PREFIX_ADDR    | \
+              SYSMODE_32BIT_REP)
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
*/
    u32                         mode;
    volatile int                intr;   /* mask of pending interrupts */
    int                         debug;
#endif DEBUG
    int                         check;
    int                         check;
    u16                         saved_ip;
    u16                         saved_cs;
int enc_pos;
Index: include/x86emu/x86emu.h

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-#endif /* __X86EMU_X86EMU_H */

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4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=========================================================================
= Change Description / Commit Message / Patch Email =
=========================================================================
Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
    made under the terms of the contribution agreement. This
    agreement is included below in this document.
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    by their real/legal name and their email address.

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Contributions.txt: TianoCore Contribution Agreement 1.0

= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0 The "TianoCore Contribution Agreement" is included below in this document.
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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.
== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompany file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

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* with significant code contributions by Nitin Ganatra
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MacBinaryIII.h

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Basic encoding and decoding of Macintosh files to the MacBinary III spec.

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The following copyright applies to the full-featured unreduce.c (now distributed separately):

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding...
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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.995 icu 64.2
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $<
| sed "\"s/\(#\)/\1/\" > $@; \\
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n sed 's/\s\+/\1/;g' > $@; \n [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$RM $@ && ln -s ${<F} $@
%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$RM $@ && ln -s ${*F}.SO.$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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1.1015 annotations 13.0

1.1016 util-linux 2.23.2 63.el7

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efdec7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266ce2df055067c18f2ef9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot   Start   End    Blocks   Id  System
______________
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot   Start   End    Blocks   Id  System
__ts_dev__1   2048   4095    1024   83  Linux

----------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73f bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Create default BSD
d2e1ceec59c969ae93f044f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end   size  fstype  [fsiz e bsiz e  cpg]
c:   4096  20479  16384  unused  0  0
    d:    0  16064  16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

---------

b5c121c2091b2ff26b880551fca7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end   size  fstype  [fsiz e bsiz e  cpg]
a:   4096  6144  2049  4.2BSD   0  0
    c:   4096  20479  16384  unused  0  0
d:    0  16064  16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

---------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):

1.1017 lshw B.02.18-14.el7

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Version 2.1, February 1999

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Arnaud LE HORS      BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93 65 77 71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

**SUMMARY**

*iccf* *ICCF*

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

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

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

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

=== begin of license ===

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   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
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is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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

=== end of license ===

Note:

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

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

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

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

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

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

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

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

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

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

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

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

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

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

vim:tw=78:ts=8:nowrap:ft=help:
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Version 2.1, February 1999

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its purpose remains meaningful.

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

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

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under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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1.1024 slf4j-log4j 1.7.25

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```
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```

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1.1026 libjpeg-turbo 1.2.90 8.el7

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README for release 6b of 27-Mar-1998
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:
User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.)

So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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Milpitas, CA 95035
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A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.
A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1027 cpp 7.5.0-3ubuntu1~18.04
1.1027.1 Available under license:

DRuntime: Runtime Library for the D Programming Language

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

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Version 3.1, 31 March 2009

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

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1.1029 kerberos 1.15.1 46.el7

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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
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lib/gssapi/mechglue/g_export_name.c
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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
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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slave/kpropd_rpc.c
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1.1032 net-tools 2.0 0.25.20131004git.el7

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1.1033 ghodss-yaml 1.0.0

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1.1034 go-connections 0.4.0

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1.1035 fdisk 2.23.2
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- Initialize empty image
  f1c9645dbc14efddc7d8a322685f26eb bsd.img
- Create new DOS partition table
  57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-------------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
__ts__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
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<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts</strong></td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td><strong>ts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 2st primary partition
1b0bf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8ddf51a88a045db233418dd73fbe bsd.img

---layout-------
__ts__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
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<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td><strong>ts</strong></td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1ffee529cb59e9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsiz bsize cpg]
c:  4096  20479  16384 unused 0 0
d:  0  16064  16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsiz bsize cpg]
a:  4096  6144  2049 4.2BSD 0 0 0
c:  4096  20479  16384 unused 0 0
d:  0  16064  16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused  5 4.1BSD  9 4.4LFS  d boot
1 swap  6 Eighth Edition  a unknown  e ADOS
2  Version 6  7 4.2BSD  b HPFS  f HFS
3  Version 7  8 MS-DOS  c ISO-9660  10 AdvFS
4  System V
BSD disklabel command (m for help):

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kpropd_rpc.c
   kprop/kproplog.c

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- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dup_name.c</span></code>
- <code class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_exp_sec_context.c</span></code>
class="n">g_store_cred</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">g_unseal</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">g_userok</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">g_utils</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">g_verify</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">gssd_pname_to_uid</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">mglueP</span><span class="o">.</span><span class="n">h</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">mechglue</span><span class="o">./</span><span class="n">oid_ops</span><span class="o">.</span><span class="n">c</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">spnego</span><span class="o">./</span><span class="n">gssapiP_spnego</span><span class="o">.</span><span class="n">h</span>  
class="n"><span class="o">./</span><span class="n">gssapi</span><span class="o">.</span><span class="n">spnego</span><span class="o">./</span><span class="n">spnego_mech</span><span class="o">.</span><span class="n">c</span>  


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

<code class="highlighter">(include <span class="o">./</span>iprop_hdr.h) <span class="o">./</span>kadmin/server/ipropd_svc.c <span class="o">./</span>lib/kdb/iprop.x <span class="o">./</span>lib/kdb/kdb_convert.c <span class="o">./</span>lib/kdb/kdb_log.c <span class="o">./</span>lib/krb5/error_tables.krb5_err <span class="o">./</span>kprop/kpropd_rpc.c</code>
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import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-.' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'^\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/\*\*\* in line:
        (line, sep, comment_part) = line.partition('/\*\*\*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())

is_license = check_comment(comment, fname, comment_starts_at,
                            code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != ':
    code_seen = True

ln += 1

for fname in sys.argv[1::]
    if fname.startswith('./'):
        fname = fname[2::]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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1.1046 gpm 1.20.7 6.el7

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Assignee: Esri.
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gdal/frmts/gtiff/tif_float.c

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gdal/frmts/hdf4/hdf-eos/*
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gdal/frmts/pcraster/libcsf
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port/cpl_minizip

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gdal/ogr/ogrfs_frmts/dxf/intronurbs.cpp

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gdal/alg/thinplatespline.cpp

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IEEE754 log() code derived from:
@(#)e_log.c 1.3 95/01/18

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gdal/alg/libqhull

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  C.B. Barber
  Arlington, MA

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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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gdal/frmts/mrf/* (apply when MRF driver included in build)

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    C.B. Barber
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1063 json-schema-validator 2.2.8

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1073 jetty-util 9.4.27.v20200227

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical
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procfs provides functions to retrieve system, kernel and process 
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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

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* The method that makes the authorization decision.
*
* We assume authorize() is thread-safe in a sense that there will not be two concurrent threads
* calling it at the same time for the same session.
*
* Should that not be the case, the side effect could be to make more calls to token endpoint than necessary.
* Other than that it should not affect proper functioning of this authorizer.
*
* @param session Current session
* @param operation Operation to authorize
* @param resource Resource to authorize
* @return true if permission is granted
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1.1098 python-setuptools 40.8.0 1

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

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

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

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Mersenne Twister
-------------
The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
------
The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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

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1.1101 zero-allocation-hashing 0.8

1.1102 shadow-utils 4.6 5.el7

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

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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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1.1110 go-runtime 1.15

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Stein <aaronstein12@gmail.com>
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Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@kisala.com>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Anton Kuikkin <anton.a.kukkin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibliano <antbnn@gmail.com>
Antonio Huete Jimenez <tuxillo@quantumachine.net>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Anze Kolar <me@akolar.com>
Aofei Sheng <aofei@aofeisheng.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hyrneanu <aram@mgk.ro>
Araragi Hokuto <kanseihonbucho@protonmail.com>
Arash Bina <arash@arash.io>
Arda Gl <ardagucu@gmail.com>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
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Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
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Aron Nopanen <aron.nopanen@gmail.com>
Artem Alekseev <artem.alekseev@intel.com>
Artem Kolin <artemkaxboy@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
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Audrey Lim <audreylh@gmail.com>
Audiurs Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
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Aurlien Rainone <aurelienu.rainone@gmail.com>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@gmail.com>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
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<td><a href="mailto:axel.wagner.hh@googlemail.com">axel.wagner.hh@googlemail.com</a></td>
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<td><a href="mailto:ayan@ayan.net">ayan@ayan.net</a></td>
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<td><a href="mailto:ayanamist@gmail.com">ayanamist@gmail.com</a></td>
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<td><a href="mailto:aymerick@jehanne.org">aymerick@jehanne.org</a></td>
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<td>Balazs Lecz</td>
<td><a href="mailto:leczb@gmail.com">leczb@gmail.com</a></td>
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<td>Baokun Lee</td>
<td><a href="mailto:nototon@gmail.com">nototon@gmail.com</a></td>
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<tr>
<td>Barnaby Keene</td>
<td><a href="mailto:accounts@southcla.ws">accounts@southcla.ws</a></td>
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<td>Bartosz Grzybowski</td>
<td><a href="mailto:melkorm@gmail.com">melkorm@gmail.com</a></td>
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<td><a href="mailto:brtsz@gmail.com">brtsz@gmail.com</a></td>
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<td>Bastian Ike</td>
<td><a href="mailto:bastian.ike@gmail.com">bastian.ike@gmail.com</a></td>
</tr>
<tr>
<td>Ben Burkert</td>
<td><a href="mailto:ben@benburkert.com">ben@benburkert.com</a></td>
</tr>
<tr>
<td>Ben Eitzen</td>
<td><a href="mailto:eitzenb@golang.org">eitzenb@golang.org</a></td>
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<td><a href="mailto:ben.fried@gmail.com">ben.fried@gmail.com</a></td>
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<td><a href="mailto:ben@links.org">ben@links.org</a></td>
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<td><a href="mailto:ben.lubar@gmail.com">ben.lubar@gmail.com</a></td>
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<td>Ben Lynn</td>
<td><a href="mailto:benlynn@gmail.com">benlynn@gmail.com</a></td>
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<td>Ben Olive</td>
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</tr>
<tr>
<td>Benjamin Cable</td>
<td><a href="mailto:cable.benjamin@gmail.com">cable.benjamin@gmail.com</a></td>
</tr>
<tr>
<td>Benjamin Hsieh</td>
<td><a href="mailto:tanookiben@users.noreply.github.com">tanookiben@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Benjamin Peterson</td>
<td><a href="mailto:benjamin@python.org">benjamin@python.org</a></td>
</tr>
<tr>
<td>Benjamin Prosnitz</td>
<td><a href="mailto:bprosnitz@gmail.com">bprosnitz@gmail.com</a></td>
</tr>
<tr>
<td>Benjamin Wester</td>
<td><a href="mailto:bwest@squareup.com">bwest@squareup.com</a></td>
</tr>
<tr>
<td>Benjamin Wuethrich</td>
<td><a href="mailto:benjamin.wuethrich@gmail.com">benjamin.wuethrich@gmail.com</a></td>
</tr>
<tr>
<td>Benny Siegert</td>
<td><a href="mailto:bsiegert@gmail.com">bsiegert@gmail.com</a></td>
</tr>
<tr>
<td>Benoit Sigoure</td>
<td><a href="mailto:tsunanet@gmail.com">tsunanet@gmail.com</a></td>
</tr>
<tr>
<td>Berengar Lehr</td>
<td><a href="mailto:Berengar.Lehr@gmx.de">Berengar.Lehr@gmx.de</a></td>
</tr>
<tr>
<td>Berkant Ipek</td>
<td><a href="mailto:41230766+0xbkt@users.noreply.github.com">41230766+0xbkt@users.noreply.github.com</a></td>
</tr>
<tr>
<td>Bharath Thiruveedula</td>
<td><a href="mailto:tbharath91@gmail.com">tbharath91@gmail.com</a></td>
</tr>
<tr>
<td>Bhavin Gandhi</td>
<td><a href="mailto:bhavin7392@gmail.com">bhavin7392@gmail.com</a></td>
</tr>
<tr>
<td>Bill Neubauer</td>
<td><a href="mailto:wcn@golang.org">wcn@golang.org</a></td>
</tr>
<tr>
<td>Bill O'Farrell</td>
<td><a href="mailto:bill.neubauer@gmail.com">bill.neubauer@gmail.com</a></td>
</tr>
<tr>
<td>Bill Prin</td>
<td><a href="mailto:waprin@gmail.com">waprin@gmail.com</a></td>
</tr>
<tr>
<td>Bill Thiede</td>
<td><a href="mailto:couchmoney@gmail.com">couchmoney@gmail.com</a></td>
</tr>
<tr>
<td>Bill Zissimopoulos</td>
<td><a href="mailto:billziss@navimatics.com">billziss@navimatics.com</a></td>
</tr>
<tr>
<td>Billie Harold Cleek</td>
<td><a href="mailto:bhcleek@gmail.com">bhcleek@gmail.com</a></td>
</tr>
<tr>
<td>Billy Lynch</td>
<td><a href="mailto:wlynch@gmail.com">wlynch@gmail.com</a></td>
</tr>
<tr>
<td>Billy Zaelani Malik</td>
<td><a href="mailto:m.billyzaelani@gmail.com">m.billyzaelani@gmail.com</a></td>
</tr>
<tr>
<td>Bjrn Erik Pedersen</td>
<td><a href="mailto:bjorn.eric.pedersen@gmail.com">bjorn.eric.pedersen@gmail.com</a></td>
</tr>
</tbody>
</table>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <briski@gmail.com>
Bob McNaughton <bobmcn@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbypowers@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boqin Qin <boqin@gmail.com>
Boris Nagaev <nagaev@gmail.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bderickson@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@gmail.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhittaker@fastly.com>
Braden Basingthwaite <bbasingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandongifp@gmail.com>
Brandon Ryan <bjryan19@gmail.com>
Brayden Cloud <bcloud@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brettj.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian Falk <falk@logicparty.org>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgm@gmail.com> <bgm@google.com>
Brian Kennedy <bkennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@gmail.com>
Brian Smith <oohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chriskprintf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chrism@vanclueverttech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.caahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Loessl <cloessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementskaugmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradopl@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Corne van der Plas <vdplas@gmail.com>
Cosmos Nicolaou <ncnicolaou@google.com>
Costin Chirvasuta <ctin@google.com>
Craig Citro <craigcitro@gmail.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihlauac ALVARADO <cuihlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dttanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtonnd@google.com>
Dan Jacques <dnj@google.com>
Dan Johnson <computerdruid@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@google.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cormier <danielt@knowbc4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <djsjones@gmail.com>
David Lazar <lazar@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <d symonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <d timm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@urlid.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Eigenmann <7621705+decanus@users.noreply.github.com>
Dean Prichard <dean.pritchard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Isaev <idenx@yandex.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuys <derek.buitenhuys@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Phan <derekphan94@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojhal2@gmail.com>
Dev Zhousun <dev.zhousun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruvduett Jadhav <dhruvduett.jadhav@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micncim (21333876) <micncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu11@icloud.com>
GitHub User @OlgaVPetrova (44112727) <OVPetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @saiturunreddy (21041941) <saiturunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb+google.com>
Glenn Lewis <gmlewiss+google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon+doxxx.net>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller+google.com>
Grant Griffiths <gpp493@gmail.com>
Greg Poirier <greg.istehbest+google.com>
Greg Steuck <gnezdo+github.com>
Greg Thelen <gthelen+google.com>
Greg Ward <greg+erg.ca>
Grgoire Delattre <gregoire.delattre+github.com>
Gregory Man <man.gregory+google.com>
Gregory Petrosyan <gregory.petrosyan+google.com>
Guilherme Caruso <gui.martinscaruso+gmail.com>
Guilherme Garnier <guilherme.garnier+gmail.com>
Joshua Crowgey <jcrowgey@uw.edu>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@gmail.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@gmail.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@gmail.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@gmail.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Trauenmiller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@gmail.com>
Kamal Aboul-Hosn <aboulhosn@gmail.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karloq Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@gmail.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Maximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michael Durakananda <pongad@gmail.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedenese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <stroake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mwiacek@google.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikiohmikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>
Miroslav Genov <smgenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Mohit Verma <v.mohit.93@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevsds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Muir Manders <muir@nmd.rs>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Nikita Vanyasin <nikita.vanyasin@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nikson Kanti Paul <nikson.sust@gmail.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noah Goldman <noahg34@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <ncruces@users.noreply.github.com>
Obeyda Djeffal <djefobey@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dimage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Dupray <dupray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Omar Jarjur <ojarjur@gmail.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Caderno <kaderno@gmail.com>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Pdraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Panos Georgiadis <pgeorgiadis@suse.de>
Pantelis Sampaziotis <psampaz@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkrmoore@gmail.com>
Parminder Singh <parmsingh101@gmail.com>
Pascal Dierich <pascal@pascaldierich.com>
Pascal S. de Kloet <pascal@quies.net>
Paschalis Tsilias <paschalis.tsilias@gmail.com>
Pasi Thkp <pasi.tahkapaa@gmail.com>
Pat Moroney <pat@pat.email>
Patrick Barker <barkerp@vmware.com>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <spr@google.com>
Patrick Smith <pat4smith@gmail.com>
Patrik Lundin <patrik@sigterm.se>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@google.com>
Paul D. Weber <x0bdev@gmail.com>
PauHammond <paul@paulhammond.org>
Paul Hankin <paulhankin@gmail.com>
PauL Jolly <paul@myitcv.org.uk>
PauL Lalonde <paul.a.lalonde@gmail.com>
PauL M Furley <paul@paulfurley.com>
PauL Marks <pmarks@google.com>
PauL Meyer <paul.meyer@microsoft.com>
PauL Nasrat <pnasrat@gmail.com>
PauL PISCUC <paul.piscuc@gmail.com>
PauL Querna <pquerna@apache.org>
PauL Rosania <paul.rostania@gmail.com>
PauL Ruest <pruest@gmail.com>
PauL Sbarra <sbarra.paul@gmail.com>
PauL Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
PauL Tyng <paul@paultyng.net>
PauL van Brouwershaven <paul@vanbrouwershaven.com>
PauL Wankadia <junyer@paul.com>
PauLo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulo.gomes.uk@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Pei Xian Chee <luciolas1991@gmail.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Dambovaliev <petar.atanassov.1987@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <spconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@gmail.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@gmail.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mitcis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@gmail.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Carru <pierre.carru@eshard.com>
Silvan Jegen <s.jegen@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczr.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
Srinidhi Kaushik <srinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <stnillson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <suercher@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tomberman@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomalinford@gmail.com>
Tom Parkin <tom.parkin@gmail.com>
Tom Payne <twopayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tomas Dabasinskas <tomas@dabasinskas.net>
Tommy Schaefer <tommy.schaefer@tecom.com>
Tomohiro Kusumoto <zabo1192@gmail.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <touro.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Torben Schinke <torben.schinke@neotos.de>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <itacon@gmail.com>
Tristan Amini <tamin01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tsui J Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuogoogle.com>
Tyler Bui-Pulsulich <tpulsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <tysonandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
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DMIDecode Python Extension Module shadows the DMIDecode utility

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  src/preproc/grn/gprint.h
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--------------

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

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

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

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

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

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

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AUTHOR
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Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
Ottawa (ON)  K1L 6X6

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1120 protobuf-c 1.3.1-1+b1
1.1120.1 Available under license:

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1.1121 libpsl 0.19.1-5build1
1.1121.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libpsl
Source: https://github.com/rockdaboot/libpsl

Files: *
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1.1122 jackson-module-jaxb-annotations 2.9.9

1.1123 rfkill 0.4 10.el7

1.1124 kerberos 1.17-r0

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# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):

print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment # is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/'- and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/* ([^ ]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*\*\?\*\*/', '', line)
        line = line.strip()
if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())

is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != '':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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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
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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_inquire_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables.krb5_err`
- `kprop/kpropd_rpc.c`
- `kprop/kproplog.c`

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.. parsed-literal::

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    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
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    lib/gssapi/mechglue/g_context_time.c
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    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
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    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/gsdd_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:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kpropd_rpc.c
   kprop/kproplog.c

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**1.1130 metrics 4.0.2**

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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  jar/io/netty/resolver/DefaultAddressResolverGroup.java
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  jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1068271484_1594339281.28/0/netty-resolver-4-1-45-final-sources-1-
  jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068271484_1594339281.28/0/netty-resolver-4-1-45-final-sources-1-
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  jar/io/netty/resolver/package-info.java
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1150 xiang90-probing 0.0.0-
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1.1151 resteasy-core-spi 4.3.0.Final
1.1151.1 Available under license:

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/**
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally
* by the Resteasy runtime and wrapped with an instance of WriterException.
*
* If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception mapper for WriterException.
*
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
*
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1080721535_1597679499.3/0/resteasy-core-spi-4-3-0-final-sources-jar/org/jboss/resteasy/spli/WriterException.java

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/**
* Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally
* by the Resteasy runtime and wrapped with an instance of ReaderException.
*
* If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception mapper for ReaderException.
*
* Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
1.1152 gdal 2.4.0+dfsg-1+b1

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1.1153 tre 0.8.0

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1.1154 kubernetes-model-common 4.6.4

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

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

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

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1.1166 busybox 1.30.1 r2

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
package api

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

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\d)*( All rights reserved.)(//|#) Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
`

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }
        // Do some testing here...
    })
if err != nil {
    return err
}
if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

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

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

---

1.1169 go-kit 0.8.0

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  jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/pool/DefaultChannelPool.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/pool/DefaultChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/pool/DefaultChannelPoolMap.java
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/*
Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its \[link ChannelPipeline\].

Sub-types

[link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:

- \[link ChannelInboundHandler\] to handle inbound I/O events, and
- \[link ChannelOutboundHandler\] to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- \[link ChannelInboundHandlerAdapter\] to handle inbound I/O events,
- \[link ChannelOutboundHandlerAdapter\] to handle outbound I/O operations,
- \[link ChannelDuplexHandler\] to handle both inbound and outbound events

For more information, please refer to the documentation of each subtype.

The context object

A \[link ChannelHandler\] is provided with a \[link ChannelHandlerContext\] object. A \[link ChannelHandlerContext\] is supposed to interact with the \[link ChannelPipeline\] it belongs to via a context object. Using the context object, the \[link ChannelHandlerContext\] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using \[link AttributeKey\]s) which is specific to the handler.
A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See {ChannelInitializer#initChannel}.
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]s:
* <pre>
* public interface Message {
*     // your methods here
* }
* </pre>
* @code @Sharable
* public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; {
*     private final [@link AttributeKey] &lt;@link Boolean&gt; &gt; auth =
*         [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")];
*     
*     @code @Override
*     public void channelRead( [@link ChannelHandlerContext] ctx, Message message) {
*         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (@code Boolean.TRUE.equals(attr.get()) </b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends [@link ChannelInitializer] &lt;@link Channel&gt; {
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
*     
*     @code @Override
*     public void initChannel( [@link Channel] channel) {
*         channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
*     }
* }
* </pre>
* </h4>The [@code @Sharable] annotation</h4>
* <p>
* In the example above which used an [@link AttributeKey],
you might have noticed the [@code @Sharable] annotation.

If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Please refer to the [@link ChannelHandler], and [@link ChannelPipeline] to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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

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1.1185 tar 1.29b 2ubuntu0.1

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1.1188 jetty-http 9.4.24.v20191120

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
```

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**Open Source Used In Connected-Pharma 1.5 - Platform, Connectors and Infra 13066**
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1189 google-api-go-client 0.20.0

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package api

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

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(.*\)( All rights reserved.)*
(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.
`)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }
    if err != nil {
      return err
    }
    if filepath.Ext(path) != "\.go" && filepath.Ext(path) != "\.sh" {
      return nil
    }
    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }
    // Verify that the license is matched.
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }
  })
}
// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == "_.go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
} return nil
}
if err != nil {
    t.Fatal(err)
}

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Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>
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1.1191 debianutils 4.8.4
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1.1192 lsb 9.20170808ubuntu1

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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1.1204 elfutils 0.170-0.4ubuntu0.1

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1.1206 python-defaults 3.7.3-1

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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

A. HISTORY OF THE SOFTWARE

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

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

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

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1.1216 mergo 0.3.9

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import: ../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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libs/date_time/example/gregorian/days_since_year_start.cpp
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libs/numeric/odeint/doc/range_table.qbk
libs/numeric/odeint/test_external/eigen/is_resizeable.cpp
libs/numeric/odeint/test_external/eigen/Jamfile.v2
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libs/numeric/odeint/test_external/eigen/same_size.cpp
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libs/numeric/odeint/test_external/gmp/Jamfile.v2
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libs/numeric/odeint/test_external/thrust/check_thrust.cu
libs/numeric/odeint/test_external/thrust/Makefile
libs/numeric/odeint/test_external/vexcl/Jamfile.v2
libs/numeric/odeint/test_external/vexcl/lorenz.cpp
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libs/numeric/odeint/examples/generation_functions.cpp
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libs/fusion/test/sequence/list_nest.cpp
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libs/graph/doc/astar_heuristic.html
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libs/pool/test/test_bug_3349.cpp
libs/pool/test/test_bug_4960.cpp
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libs/pool/test/test_simple_seg_storage.cpp
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libs/compute/CMakeLists.txt
libs/compute/doc/advanced_topics.qbk
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libs/compute/doc/tutorial.qbk
libs/compute/example/amd_cpp_kernel.cpp
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libs/compute/perf/perf_reverse.cpp
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libs/compute/perf/perf_sort.cpp
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libs/compute/perf/perf_thrust_sort.cu
libs/compute/perf/perf_thrust_unique.cu
libs/compute/perf/perfdoc.py
libs/compute/test/check_macros.hpp
libs/compute/test/CMakeLists.txt
libs/compute/test/extra/CMakeLists.txt
libs/compute/test/extra/test_interop_eigen.cpp
libs/compute/test/extra/test_interop_opencv.cpp
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libs/compute/test/extra/test_interop_qt.cpp
libs/compute/test/extra/test_interop_vtk.cpp
libs/compute/test/extra/test_multiple_objects1.cpp
libs/compute/test/extra/test_multiple_objects2.cpp
libs/compute/test/Jamfile.v2
libs/compute/test/quirk.hpp
libs/compute/test/test_accumulate.cpp
libs/compute/test/test_adjacent_difference.cpp
libs/compute/test/test_adjacent_find.cpp
libs/compute/test/test_amd_cpp_kernel_language.cpp
libs/compute/test/test_any_all_none_of.cpp
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libs/smart_ptr/include/boost/smart_ptr/detail/atomic_count_gcc.hpp
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Files:
libs/graph/include/boost/graph/floyd_warshall_shortest.hpp
libs/graph/test/floyd_warshall_test.cpp
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libs/fusion/include/boost/fusion/support/detail/and.hpp
libs/fusion/test/sequence/conversion.hpp
libs/fusion/test/sequence/fixture.hpp
libs/fusion/test/sequence/traits.hpp
libs/fusion/test/sequence/tuple_conversion.cpp
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libs/config/test/boost_no_tem_local_classes.ipp
libs/contract/build/boost_contract_build.jam
libs/contract/build/boost_contract_no.jam-gen.py
libs/contract/build/boost_contract_no.jam
libs/contract/build/Jamfile.v2
libs/contract/doc/acknowledgments.qbk
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libs/contract/meta/explicit-failures-markup.xml
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libs/contract/test/constructor/decl_pre_all.cpp
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libs/callable_traits/scripts/wandbox_deploy.py
libs/fusion/test/sequence/as_deque.cpp
libs/fusion/test/sequence/deque_is_constructible.cpp
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libs/fusion/test/support/is_sequence.cpp
libs/fusion/test/support/tag_of.cpp
libs/graph/doc/hawick_circuits.html
libs/graph/example/hawick_circuits.cpp
libs/graph/include/boost/hawick_circuits.hpp
libs/graph/test/cycle_test.hpp
libs/graph/test/hawick_circuits.cpp
libs/hana/.appveyor.yml
libs/hana/.travis.yml
libs/hana/benchmark/chart.html
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libs/hana/benchmark/find_if/compile.fusion.list.erb.cpp
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libs/hana/example/basic_tuple/make.cpp
libs/hana/example/cartesian_product.cpp
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libs/hana/example/contains.cpp
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The debian/copyright file for Boost is very complicated, because the library has accumulated a huge number of files and contributors over the years. It would be intractable to fill it by hand, and FTP masters do not like the previous choice to just generically indicate the Boost Software License and see each individual file for the differences.

Fortunately Boost itself already contains a small program, called bcp, that searches for common regular expressions in each file to find the file's license and copyright holders. The program has some deficiencies, but is overall a good foundation to automatically generate a debian/copyright file.

A patched fork of the bcp program is maintained by Giovanni Mascellani in the repository [1].

[1] https://salsa.debian.org/gio/boost-copyright

It can be compiled with qmake and make. Then you change dir to where you have unpacked the Boost tarball and run something like:

    find -type f | grep -v ^./debian/ | grep -v ^./.pc/ | bcp --report-debian --read-from-stdin debian/copyright

This will erase and regenerate the debian/copyright file. The boost-copyright repository already contains a skeleton of the copyright file (called manual_copyright), which is automatically included at the beginning of the generated file.

Since bcp cannot identify the copyright status for each single file, because some of them do not actually contain such information, the manual_copyright file contains some blanket stanzas for the main Boost directories, so that the copyright for each not better identified file is (reasonably) assigned to the people responsible for that subdirectory. The subdirectories loosely correspond to the individual...
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The script generator.py, in the boost-copyright repository, can be used to manually regenerate most of manual_copyright based on the meta/repositories.json files available in the Boost distribution. However, it is recommended to carefully check its output, because there will be some inaccuracies.

1.1219 rocksdb 11
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1.1248 mergo 0.3.8

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root
1.1249 diffutils 3.7 3

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1.1257 btf 1.2

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Python interface to tdb.

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*****************************************************************************
----
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include/GL/glxext.h
include/GL/wglxext.h :

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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=============

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1.1276 tinycdb 0.78
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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001
minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

1.1278 kmod 20-28.el7
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/Java9SslEngine.java
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ipfilter/Ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/traffic/package-info.java

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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/traffic/package-info.java
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/* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
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JUnit

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1.1286 perl 5.28.1 6
1.1286.1 Available under license :
   #!/perl

   =head1 NAME

   copyright.t

   =head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { 
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;
}
my ($year) = $copyright_msg =~ /.*(\d{4,})/s
   or die "Year not found in README copyright message '$copyright_msg';

$year;
}

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

    $year;
}

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
Eric Youngdale <eric at andante dot org>,

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   James Bottomley <jejb at parisc-linux dot org>,
   Lars Marowsky-Bree <lmb at suse dot de>,
   Kurt Garloff <garloff at suse dot de>,
   Grant Grundler <grundler at parisc-linux dot org>,
   Christophe Varoqui <christophe dot varoqui at free dot fr>,
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Douglas Gilbert
10th April 2012

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1.1292 libalgorithm-merge-perl 0.08-3

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NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT =&gt; sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT =&gt; sub { }
}, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
CONFLICT => sub { }

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(@ancestor, @a, @b);

@diff = diff3(@ancestor, @a, @b, $key_generation_function);

@diff = diff3(@ancestor, @a, @b);

@diff = diff3(@ancestor, @a, @b, $key_generation_function);

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
});

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
    }, $key_generation_function);

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
});

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
    }, $key_generation_function);

USAGE
This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the 'original' list. The second list is the 'left' list. The third list is the 'right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.
The default "CONFLICT" callback returns the following:

\[
q\{<!-- ------ START CONFLICT ------ -->},
\ (@left),
q\{<!-- ---------------------------- -->},
\ (@right),
q\{<!-- ------ END CONFLICT ------ -->}.
\]

\text{traverse\_sequences3}

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

\text{NO\_CHANGE}

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

\text{A\_DIFF}

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

\text{B\_DIFF}

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first
and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
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#  
# For testing:
#
sub main::diag {
    warn join("", @_), "\n";
}

print join(" ", merge(
    #print Data::Dumper -> Dump([
    # merge(
    # #[qw(a b c d    h i j)], # ancestor
    # #[qw(a b c d f    h i j)], # left
    # #[qw(a b c e    g   )], # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6     8 a b)],
    [qw(0 1 2 3 5 8 a b)],
    
    CONFLICT => sub ($$) { (q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
    ) },
}
)), "\n";
#})}, "\n";
#print join(" ", @{
# [qw(0 1 @ < 3 | # > 6)]
# })}, "\n";

1;
__END__

1:
__END__
NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge($@ancestor, $@a, $@b, {
  CONFLICT => sub { }
});

@merged = merge($@ancestor, $@a, $@b, {
  CONFLICT => sub { }
}, $key_generation_function);

$merged = merge($@ancestor, $@a, $@b, {
  CONFLICT => sub { }
});

$merged = merge($@ancestor, $@a, $@b, {
  CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3($@ancestor, $@a, $@b);

@diff = diff3($@ancestor, $@a, $@b, $key_generation_function);

$diff = diff3($@ancestor, $@a, $@b);

$diff = diff3($@ancestor, $@a, $@b, $key_generation_function);

@trav = traverse_sequences3($@ancestor, $@a, $@b, {
  # callbacks
});

@trav = traverse_sequences3($@ancestor, $@a, $@b, {
  # callbacks
}, $key_generation_function);

$trav = traverse_sequences3($@ancestor, $@a, $@b, {
  # callbacks
});

$trav = traverse_sequences3($@ancestor, $@a, $@b, {
  # callbacks
}, $key_generation_function);
This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```plaintext
original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
```

merge: a b d e g i j k

we have the following result from diff3:

```plaintext
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'o', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------ END CONFLICT ------ -->},

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.
This is called if the first sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

This is called if the third sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third
sequence is different than the corresponding element in the other two
two
sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the
current position. The three arguments are the current positions within
each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above
element does not work, send it to <jsmith@cpan.org> or report it on
<http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of
C<traverse_sequences> may not be symmetric with respect to the input
sequences if the second and third sequence are of different lengths.
Because of this, C<traverse_sequences3> will calculate the diffs of
the second and third sequences as passed and swapped. If the differences
are not the same, it will issue an `Algorithm::Diff::diff is not symmetric
for second and third sequences...' warning. It will try to handle
this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

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Tests included here are based on build output generated by the six-speed benchmark suite.

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}

val x: ((Int, Int) => Int) = (((a, b)) => a)

\^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}

val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

\^
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `\[ case (param1, ..., param3) => ... \]`
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^ three errors found

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  jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
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* /opt/ws_local/PERMITS_SQL/1089355283_1600123265.49/0/jline-3-0-0-m1-sources-
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  jar/org/jline/reader/impl/DefaultExpander.java
* /opt/ws_local/PERMITS_SQL/1089355283_1600123265.49/0/jline-3-0-0-m1-sources-jar/org/jline/terminal/impl/jna/win/AnsiOutputStream.java
* /opt/ws_local/PERMITS_SQL/1089355283_1600123265.49/0/jline-3-0-0-m1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/ws_local/PERMITS_SQL/1089355283_1600123265.49/0/jline-3-0-0-m1-sources-jar/org/jline/terminal/impl/Pty.java
* /opt/ws_local/PERMITS_SQL/1089355283_1600123265.49/0/jline-3-0-0-m1-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/ws_local/PERMITS_SQL/1089355283_1600123265.49/0/jline-3-0-0-m1-sources-jar/org/jline/reader/impl/completer/completer/ArgumentCompleter.java

1.1317 cifs-utils 6.9-r0
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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1.1330 jul-to-slf4j 1.7.25

1.1331 llvm 7.0.1-8

1.1331.1 Available under license :

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]
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define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [\[BLOCK0_LO\]]
; CHECK-DAG: scvtf.2d v1, [\[BLOCK0_HI\]]
; CHECK-DAG: scvtf.2d v2, [\[BLOCK1_LO\]]
; CHECK-DAG: scvtf.2d v3, [\[BLOCK1_HI\]]
; CHECK-DAG: scvtf.2d v4, [\[BLOCK2_LO\]]
; CHECK-DAG: scvtf.2d v5, [\[BLOCK2_HI\]]
; CHECK-DAG: scvtf.2d v6, [\[BLOCK3_LO\]]
; CHECK-DAG: scvtf.2d v7, [\[BLOCK3_HI\]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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*/

; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL0000000000000000000000000000000000000000000
ret fp128 %res
;
CHECK-LABEL: TestSelect:
CHECK movaps 16(%rsp), %xmm1
CHECK-NEXT callq __subtf3
CHECK-NEXT testl %ebx, %ebx
CHECK-NEXT jg .LBB0_2
CHECK-NEXT # %bb.1:
CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
CHECK-NEXT .LCPI0_0(%rip), %xmm0
CHECK-NEXT addq $32, %rsp
CHECK-NEXT popq %rbx
CHECK-NEXT retq
}
define fp128 @TestFabs(fp128 %a) {
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
;
CHECK-LABEL: TestFabs:
CHECK andps .LCPI1_0(%rip), %xmm0
CHECK-NEXT retq
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
;
CHECK-LABEL: TestCopysign:
CHECK andps .LCPI2_1(%rip), %xmm0
CHECK-NEXT orps %xmm1, %xmm0
CHECK-NEXT retq
}
define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000000000000000000000, %mul
ret fp128 %res
;
CHECK-LABEL: TestFneg:
CHECK movaps %xmm0, %xmm1
CHECK-NEXT callq __multf3
CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
CHECK-NEXT popq %rax
CHECK-NEXT retq
}
#
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
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# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file as:
#     Name <email address>
#
# Please keep the list sorted.

Albert Pretorius <pretoalb@gmail.com>
Arne Beer <arne@twobeer.de>
Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Millikin <jmllikin@stripe.com>
Jussi Knuuttila <jussi.knuuttila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>
Matt Clarkson <mattyclarkson@gmail.com>
Maxim Vafin <maxvafin@gmail.com>
Nick Hutchinson <nshutchinson@gmail.com>
Oleksandr Sochka <sasha.sochka@gmail.com>
Pascal Leroy <phil@google.com>
Paul Redmond <paul.redmond@gmail.com>
Pierre Phaneuf <pphaneuf@google.com>
Radoslav Yovchev <radoslav.tm@gmail.com>
Raul Marin <rmrodriguez@cartodb.com>
Ray Glover <ray.glover@uk.ibm.com>
Robert Guo <robert.guo@mongodb.com>
Roman Lebedev <lebedev.ri@gmail.com>
Shuo Chen <chenshuo@chenshuo.com>
Tobias Ulvgd <tobias.ulvgard@dirac.se>
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>
Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <utatane.tea@gmail.com>
Zbigniew Skowron <zbychs@gmail.com>

; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register

BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
 ; AVX-LABEL: 'zext512'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <16 x i8> undef to <16 x i32>
%D = sext <16 x i16> undef to <16 x i32>
%E = sext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; SKX256-LABEL: 'sext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

RUN: opt -consthoist -S -o - %s | FileCheck %s


target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]]= bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]]= bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]]= bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]]= bitcast i32 805873688 to i32
; CHECK: %0 = inttofp i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = inttofp i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttofp i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttofp i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttofp i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttofp i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %11 = inttofp i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttofp i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %13 = inttofp i32 %[[M5]] to i8*

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874719 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874727 to i16*), align 2
  store i16 %4, i16* inttoptr(i32 805873688 to i16*), align 2
  store i16 %3, i16* inttoptr(i32 805873719 to i16*), align 2
  store i16 %2, i16* inttoptr(i32 805873720 to i16*), align 2
  store i16 %1, i16* inttoptr(i32 805873727 to i16*), align 2
  store i16* inttoptr(i32 805874800 to i16*), i16** @goo
  ret void
}
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.
    define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
        ; CHECK-LABEL: add256:
        ; CHECK:       # %bb.0:
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT:  vpavgb (%rdi), %ymm0
  ; CHECK-NEXT:  vpavgb 32(%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqu %ymm0, (%rax)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = add <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: add512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  vpaddd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: avg_v64i8_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm0
  ; CHECK-NEXT:  vpavgb (%rdi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqu64 %zmm0, (%rax)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %1 = load <64 x i8>, <64 x i8>* %a
  %2 = load <64 x i8>, <64 x i8>* %b
  %3 = zext <64 x i8> %1 to <64 x i32>
  %4 = zext <64 x i8> %2 to <64 x i32>
  %5 = add nuw nsw <64 x i32> %3, %4
  %6 = add nuw nsw <64 x i32> %5, %4
  %7 = lshr <64 x i32> %6, %5, %4
  %8 = trunc <64 x i32> %7 to <64 x i8>
  store <64 x i8> %8, <64 x i8>* undef, align 4
  ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: pmaddwd_32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %1 = load <32 x i16>, <32 x i16>* %APtr
  %2 = load <32 x i16>, <32 x i16>* %BPtr
  %3 = zext <32 x i16> %1 to <32 x i32>
  %4 = zext <32 x i16> %2 to <32 x i32>
  %5 = add nuw nsw <32 x i32> %3, %4
  %6 = add nuw nsw <32 x i32> %5, %4
  %7 = lshr <32 x i32> %6, %5, %4
  %8 = trunc <32 x i32> %7 to <32 x i16>
  store <32 x i16> %8, <32 x i16>* undef, align 4
  ret void
}
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm0
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
    ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm0, %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm0, %ymm5
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm5, %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm0, %ymm5
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm5, %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm0, %ymm5
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm5, %ymm5

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL:  _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:    # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpswapd %xmm1, %ymm0
    ; CHECK-NEXT:    vpswapd %xmm1, %ymm0
    ; CHECK-NEXT:    vpswapd %xmm1, %ymm0
    ; CHECK-NEXT:    &PSDF:  
}
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unt
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB10_1: # %vector.body
  ; CHECK-NEXT:  ; =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
  ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  entry:
  br label %vector.body

  vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> <bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> <bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> <bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 %s1, %zmm0, %xmm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f32_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:   kshiftrw $8, %k0, %k1
 ; CHECK-NEXT:   vpmovm2d %k1, %ymm0
 ; CHECK-NEXT:   vcvtdq2ps %ymm0, %ymm0
 ; CHECK-NEXT:   vpmovm2d %k0, %ymm1
 ; CHECK-NEXT:   vcvtdq2ps %ymm1, %ymm1
 ; CHECK-NEXT:   vmovaps %ymm1, (%rdi)
 ; CHECK-NEXT:   vmovaps %ymm0, 32(%rdi)
 ; CHECK-NEXT:   vzeroupper
 ; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zeros
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f32_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:   vpmovm2d %k0, %zmm0
 ; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0
 ; CHECK-NEXT:   vpmovaps %zmm0, (%rdi)
 ; CHECK-NEXT:   vzeroupper
 ; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zeros
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f64_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:   kshiftrw $8, %k0, %k1
 ; CHECK-NEXT:   vpmovm2d %k1, %ymm0
 ; CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm1
 ; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrl $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrl $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrl $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm3, %xmm3
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpmovm2d %k0, %ymm3
; CHECK-NEXT: vmoveps %ymm2, 32(%rdi)
; CHECK-NEXT: vmoveps %ymm3, 32(%rdi)
; CHECK-NEXT: vmoveps %ymm0, 32(%rdi)
; CHECK-NEXT: vmoveps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsll $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vextract64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
    %a = load <16 x float>, <16 x float>* %ptr  
    %mask = fptoui <16 x float> %a to <16 x i1>  
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
    ret <16 x i16> %select  
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
    %a = load <16 x float>, <16 x float>* %ptr  
    %mask = fptosi <16 x float> %a to <16 x i1>  
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
    ret <16 x i16> %select  
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {  
    %a = load <64 x i8>, <64 x i8>* %ptr  
    %mask = fptosi <64 x float> %a to <64 x i1>  
    %select = select <64 x i1> %mask, <64 x i8> %passthru, <64 x i8> zeroinitializer  
    ret <64 x i8> %select  
}
store <64 x i8> %f, <64 x i8>* %c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
CHECK-LABEL: mul512:
CHECK: # %bb.0:
CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
CHECK-NEXT: vpunpckhbw {{.*#+}} zmm3 =
CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
CHECK-NEXT: vzeroupper
CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:     # %bb.0:
; CHECK-NEXT: vptestmd %xmm0, %xmm0, %k1
; CHECK-NEXT: vpblendmd (%rdi), %xmm1, %xmm0 { %k1
; CHECK-NEXT: retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32 4, <4 x i1>, <4 x i32>)
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x
; arg 1.val)
declare internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
bb:
%tmp = load <8 x i64>*, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
; i64>* %tmp)
%tmp4 = load <8 x i64>*, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}
; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
; i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {  
bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg1  
  store <8 x i64> %tmp, <8 x i64>* %arg  
  ret void  
}  

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {  
bb:  
  %tmp = alloca <8 x i64>, align 32  
  %tmp2 = alloca <8 x i64>, align 32  
  %tmp3 = bitcast <8 x i64>* %tmp to i8*  
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
  ret void  
}  

; This should promote  
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1)  
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {  
bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg1  
  store <8 x i64> %tmp, <8 x i64>* %arg  
  ret void  
}  

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {  
bb:  
  %tmp = alloca <8 x i64>, align 32  
  %tmp2 = alloca <8 x i64>, align 32  
  %tmp3 = bitcast <8 x i64>* %tmp to i8*  
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
  ret void  
}  

; This should promote  
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" { ret void }

define internal void @innerLarge() "min-legal-vector-width"="512" { ret void }

define internal void @innerNoAttribute() { ret void }

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this function.
define void @outerNoAttribute() { call void @innerLarge() ret void }

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" { call void @innerLarge() ret void }
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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* /opt/ws_local/PERMITS_SQL/1080728262_1597680111.32/0/kafka-oauth-server-0.5.0-sources-jar/io/strimzi/kafka/oauth/server/ServerConfig.java

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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Theodore Ts'o
23-June-2007

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(O) $(OBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
$(MV) pic/$ (BSD_LIB)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$ (BSD_LIB)

1.1354 j2objc-annotations 1.1
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--------------------------------------------

<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
</ul>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement the <code>Replaceable</code> interface in their text representation class.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }
    public final String getName() { return null; }
}
public void checkGuard(Object obj) throws SecurityException {}

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);
1.1356 etcd 0.5.0-alpha.5.0.20200819165624-17cef6e3e

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1.1360 asn1crypto 0.24.0-1

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Alain Vongsouvanhalains <alainv@google.com>
Andreas Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@goglers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
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1.1362 servlet-api 3.1.0

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'openssl/apps/x509.c',
'openssl/apps/app_rand.c',
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'openssl/apps/bf_prefix.c',
'openssl/apps/opt.c',


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'openssl/apps/s_socket.c',
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'defines': ['<@(openssl_defines_BSD-x86)]
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}

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Open Source Used In Connected-Pharma 1.5 - Platform, Connectors and Infra 15879
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

=======================================================================
Copyright (C) 2012 by Jun Woong.
This package is a JavaScript porting of `wcwidth()` implementation
(by Markus Kuhn)[http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c].

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Open Source Used In Connected-Pharma 1.5 - Platform, Connectors and Infra 15927
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Open Source Used in Connected-Pharma 1.5 - Platform, Connectors and Infra 15930
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# spdx-license-ids


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## Installation

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

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `Array<string>`

All license IDs except for the currently deprecated ones.

```javascript
```
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', 'AFL-1.2', ...]

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

ids.includes('GPL-3.0'); //=> false
```
```javascript
### require('spdx-license-ids/deprecated')

Type: `<Array<string>>`

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

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
deprecatedIds.includes('GPL-3.0'); //=> true
```
```javascript
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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<th>Year</th>
<th>Owner</th>
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:
```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);

The function will return a warning and suggestion for nearly-correct license identifiers:

### javascript
assert.deepEqual(
valid('Apache 2.0'),
{
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be ','
    'a valid SPDX license expression (without "LicenseRef"), ','
    '"UNLICENSED", or '+'
    '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
});
```
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```javascript
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
```
```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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// Original can be found at:
//  https://bitbucket.org/lindenlab/llsd
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// ES3/ES5 implementation of the Krhonos Typed Array Specification
//  Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//  Date: 2011-02-01
//
// Variations:
//  * Allows typed_array.get/set() as alias for subscripts (typed_array[[]])
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This package was originally put together by Austin Donnelly
<and1000@debian.org>, but is heavily based on bsdutils, originally put
together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any
problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith
<cpbs@debian.org>. I gathered data for the 1999-2001 calendar files
from various sources on the Internet, and I'd also like to thank Oliver
Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing
much useful data on the various religious calendars. I have edited the
files they provided to fit calendar's requirements, so any errors should
be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for
almost two years, before Tollef Fog Heen <tfheen@debian.org> took over.
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1.1367 icu 67

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### Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

### Flags for position independent code
SHAREDLIBCFLAGS = -fPIC

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SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPFFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.*
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

# Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $<
| sed \"s/\($(\!\$*)\)\.o\[ :\]*/\1.o $@ : /g\" $<' || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $<
| sed \"s/\($(\!\$*)\)\.o\[ :\]*/\1.o $@ : /g\" $<' || rm -f $@'

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1.1368 btree 1.0.0

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

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its purpose remains meaningful.

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END OF TERMS AND CONDITIONS

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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

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A "covered work" means either the unmodified Program or a work based on the Program.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
}
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLRERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/*@ the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
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* @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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/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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#include <sys/rb.h>

# ifndef HAVE_SETRESGID

#ifndef HAVE_SETRESGID

---

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int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mourning Exp */

/*
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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1))
#endif
#endif

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1.1381 debianutils 4.8.1.1

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Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Woodbeck <adam@woodbeck.net>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <sphpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed Wahed <oneofone@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvnneanu <aram@mgk.ro>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bztt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvind Rajesh Tamilmani <art@a-30.net>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptososophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayanamist Yang <ayananamist@gmail.com>
Aymeric Jhanne <aymeric@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatcenter.com>
Balazs Lecz <leczb@google.com>
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Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Prin <waprin@gmail.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <rbriski@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@gmail.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
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ChaiShushan <chaishushan@gmail.com>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarmis@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
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Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <cavyliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrismith@users.noreply.github.com>
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Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
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Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
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Dan Jacques <dnj@gmail.com>
Dan Johnson <computerdruid@gmail.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Danil de Kok <ne@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingrmonds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Open Source Used in Connected-Pharma 1.5 - Platform, Connectors and Infra

Ivan Markin <sw@nogoegst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Sharavuev <shpirwan@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivvy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jack Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbbaskin@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@go.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@gmail.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jlawj@tacy.com>
James Meneghello <rawrzor@gmail.com>
James Myers <jmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@go.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs19895@icloud.com>
James Sweet <james.sweet88@gmail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@go.com>
James Whitehead <jwhitehead@gmail.com>
Jamie Beverly <jamie.r.bevelry@gmail.com>
Jamie Gennis <jgennis@go.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@goolemail.com>
Jamie Liu <jamieliu@go.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
John Gilik <john@gilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoulli>
Jonathan Allie <jonallie@gmail.com>
Jonathan Amsterdam <jba@gmail.com>
Jonathan Boule <jonathanboule@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@gmail.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@gmail.com>
Jonathan Mark <jmark@xenops.com> <jmark000@gmail.com>
Jonathan Nieder <jrn@gmail.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@gmail.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jos Visser <josv@gmail.com>
Jose Luis Vquez Gonzalez <josvazg@gmail.com>
Joseph Bonneau <jcb@gmail.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@gmail.com>
Josh Holland <jrh@joshh.co.uk>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmov@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julie Qi <julie@golang.org>
Julien Kauffmann <julien.kaufmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Junda Liu <junda@celer.network>
Junho Ahn <jahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justynameme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmiller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukanguste@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@google.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@gmail.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyoehi Kadota <lufia@lufia.org>
Kyrlo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lanml@gmail.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@gmail.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <ruiginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@gmail.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@gmail.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matt.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@gmail.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@gmail.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Darakananda <pongad@gmail.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaisingre@gmail.com>
Omar Jarjur <sojarjur@google.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamungo@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Paolo Giarrusso <p.giarrasso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkermoore@gmail.com>
Parminder Singh <parmsingh101@gmail.com>
Pascal S. de Kloe <pascal@quies.net>
Pat Moroney <pat@pat.email>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattysack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <p.p pelletsier@gmail.com>
Patrick Riley <pfr@google.com>
Patrick Smith <pat2smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@gmail.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@google.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@google.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnnasrat@google.com>
Paul PISCUC <paul.piscucc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Piers <google@hellowpies.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietrou10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtaitx@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashanttv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qais Patankar <qaisip@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperesz@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Leiven <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Rens Rikkerink <lkkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Richard Barnes <rlb@ipv.sx>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalov <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stphane Travostino <stphane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephennm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streetering <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_inquire_context.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@gmail.com>
Chris Taylor <taylorc@gmail.com>
Dan Egnor <egnor@gmail.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
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Ji Sigursson <joi@gmail.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keithray@gmail.com>
Kenton Varda <kentont@google.com>
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Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
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1.1401 xz 5.2.4 1

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Zstd-jni: JNI bindings to Zstd Library

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<signature of Ty Coon>, 1 April 1989
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That's all there is to it!

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the 
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = ";
my $copyright_msg = <$readme>;

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

$year;
}

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

$year;
}

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

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nmodule-build@perl.org."
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
1.1416 libverto 0.3.1-r0

1.1416.1 Available under license:

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1.1417 alpine-keys 2.1 r2

1.1418 shared-mime-info 1.9 2

1.1418.1 Available under license:

This package was debianized by Filip Van Raemdonck (mechanix@debian.org) on Thu, 4 Jul 2002 20:59:23 +0200.

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

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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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

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

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

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reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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QLogic Linux qlcnic NIC Driver

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
*
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### 1.1441 man-pages 4.10-2

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1.1442 ncurses 6.1+20181013 2+deb10u2

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 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
No license file was found, but licenses were detected in source scan.

/*
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 * version 2.0 (the "License"); you may not use this file except in compliance
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 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
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 * under the License.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4.0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/Native.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4.0/netty-transport-native-epoll-4.1.45-final-sources-jar/netty_epoll_native.c

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/*
 * Copyright 2016 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
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 *   http://www.apache.org/licenses/LICENSE-2.0
 *
 *
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
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/*
 * Copyright 2014 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */

/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */
1.1449 cracklib 2.9.0-11.el7

1.1449.1 Available under license:

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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Sent: Monday, October 01, 2007 8:33 PM
To: Neulinger, Nathan
Cc: cracklib-devel@li...; Alec Muffett
Subject: Re: [Cracklib-devel] cracklib license

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

Seems like the ideal thing here would be for you and the other distro
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much other than cleaning up the packaging and patches and a small
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additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

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

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

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

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On Sunday 05 October 2008, Alec Muffett wrote:
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Nathan Neulinger is the only one who can actually make said change ...
-mike

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

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

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

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

------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
The license for my code in the Cracklib distribution is henceforth GPL.
Happy now? :-) 

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

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

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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License, or (at your option) any later version.

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A copy of the GNU Lesser General Public License 2.1 is available as
/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc.; 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

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

Happy now? :-)

------- Forwarded message -------
From: Neulinger, Nathan <nneul@umr.edu>
Date: Sep 27, 2007 2:58 PM
Subject: RE: cracklib license
To: alecm@crypto.dircon.co.uk

Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.1470 latencyutils 2.0.3

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Lua 5.1.4 15.el7

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* /opt/ws_local/PERMITS_SQL/1049165745_1591417514.84/0/animal-sniffer-annotations-1-17-sources-1-
jarMETA-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml
No license file was found, but licenses were detected in source scan.

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 *
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1.1474 hunspell 1.3.2 15.el7

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 *
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*
* An almost complete rewrite of MySpell for use by
* the Mozilla project has been developed by David Einstein
* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
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* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1.48-final-sources-1-jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1.48-final-sources-1-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1.48-final-sources-1-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4.1.48-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4-1-48-final-sources-1-jar/io/netty/buffer/PoolSubpageMetric.java
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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4-1-48-final-sources-1-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4-1-48-final-sources-1-jar/io/netty/buffer/UnsafeHeapByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1068412544_1594398729.94/0/netty-buffer-4-1-48-final-sources-1-
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<script type="text/javascript">
 var DOCUMENTATION_OPTIONS = {
 URL_ROOT: './',
 VERSION: '1.17',
 COLLAPSE_INDEX: false,
 FILE_SUFIX: '.html',
 HAS_SOURCE: true,
 SOURCELINK_SUFFIX: '.txt'
};
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<script type="text/javascript" src="_static/jquery.js"></script>
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c

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

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
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   kprop/kproplog.c

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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if line.isspace() or line.strip() == '':
            continue
        if indicates_license(line):
            is_license = True
            break
    if not text_seen and is_license:
        return True
    return False
if not is_license and indicates_license(line):
    is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/**' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( -.* )? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*? */', '', line)
        line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
   :hidden:

   copyright.rst

.. include:: notice.rst

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```
lib/gssapi/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
```

Open Source Used In Connected-Pharma 1.5 - Platform, Connectors and Infra 17267
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- `include/iprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.x`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/kdb/kdb_log.h`
- `lib/krb5/error_tables/kdb5_err.et`
- `kprop/kpropd_rpc.kprop`
- `kprop/kproplg.kprop`

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Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
Arvid Picciani
Bartosz Brachaczek
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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"Source code" for a work means the preferred form of the work for
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.1481 jetty-plus 9.4.20.v20190813

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1482 gdb 7.6.1 119.el7

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Version 2, June 1991

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

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We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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 \texttt{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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table, the facility still operates, and performs whatever part of
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a purpose that is entirely well-defined independent of the
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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@enumerate
@item
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@item
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@end iftex
@end ifinfo
@end page
@end appendixsubsec

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Upstream Author: Christian Werner <chw@ch-werner.de>

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.  
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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--- end of FTL.TXT ---

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Contributors:
James Graham - jg307@cam.ac.uk
Anne van Kesteren - annevankesteren@gmail.com
Lachlan Hunt - lachlan.hunt@lachy.id.au
Matt McDonald - kanashii@kanashii.ca
Sam Ruby - rubys@intertwingly.net
Ian Hickson (Google) - ian@hixie.ch
Thomas Broyer - t.broyer@ltgt.net
Jacques Distler - distler@golem.ph.utexas.edu
Henri Sivonen - hsivonen@iki.fi
Adam Barth - abarth@webkit.org
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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Other documentation files in the distribution are:

User documentation:
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.
We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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FILE FORMAT WARS
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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

libsdl
skia

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node_preamble

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tcmalloc

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vulkanmemoryallocator

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Arjan van de Ven  <arjan@linux.intel.com>
Jim Kukunas      <james.t.kukunas@linux.intel.com>
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Vinodh Gopal    <vinodh.gopal@intel.com>
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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010

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{{appDescription}}

{{version}}OpenAPI spec version: {{version}}{{/version}}

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**1.1506 mime-support 3.60ubuntu1**

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1.1507 libdrm 2.4.97-2.el7

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1.1510 libgcrypt 1.7.3

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1.1514 Linux-Kernel 3.10.0

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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
*   2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
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Antonio Luna
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Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang

Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorg.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C
Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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+ many more (please mail me if you are missing in this list and would like to be mentioned)
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1.1517 go-colorable 0.0.9

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function: `\[ case (a, b) => ... ]`
val x: ((Int, Int) => Int) = (((a, b)) => a)

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
^  
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^  
three errors found
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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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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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### 1.1523 junit 4.13

#### 1.1523.1 Available under license:

JUnit

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1.1524 pflag 1.0.5

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1.1525 Mitchellh-copystructure 1.0.0

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