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Text Part Number: 78EE117C99-1421049124

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1.1 go-runewidth v0.0.2

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1.3 prometheus-client v0.8.0

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1.4 goleveldb

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1.5 grpc-go 1.29.1

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1.14 golang-protobuf-extensions v1.0.1

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1.16 golang-snappy

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WinJS

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1.20 x-text v0.3.0

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1.23 docker v1.13.1

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```
---
description: Learn about the permission levels available in Docker Universal Control
Plane.
keywords: authorization, authentication, users, teams, UCP
redirect_from:
- /ucp/user-management/permission-levels/
title: Permission levels
---
```

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to

cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

Default permission level	Description
`No Access`	The user can't view any resource, like volumes, networks, images, or containers.
`View Only`	The user can view volumes, networks and images, but can't create any containers.
`Restricted Control`	The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host.
`Full Control`	The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

****NOTE****: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

Team permission levels

Teams allow you to define fine-grain permissions to containers that have the label `com.docker.ucp.access.label` applied to them.

There are four permission levels:

Team permission level	Description

`No Access`	The user can't view containers with this label.	
`View Only`	The user can view but can't create containers with this label.	
`Restricted Control`	The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host.	
`Full Control`	The user can view and create containers with this label, without any restriction.	

Where to go next

- * [Create and manage users](create-and-manage-users.md)
- * [Create and manage teams](create-and-manage-teams.md)

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

Default permission level	Description

:-----	:-----

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|
| `View Only` | The user can view volumes, networks and images, but can't create any containers.

|
| `Restricted Control`

| The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |

| `Full Control` | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers. |

If a user has Restricted Control or Full Control default permissions, they can create resources without labels, and only the user and Admins can see and access the resources. Default permissions also affect ability for a user to access things that can't have labels, images and nodes.

Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

| Team permission level | Description

|:-----|:-----|
-----|

| `No Access` | The user can't view containers with this label.

| `View Only` | The user can view but can't create containers with this label.

| `Restricted Control` | The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host. |

| `Full Control` | The user can view and create containers with this label, without any restriction.

Where to go next

* [Create and manage users](create-and-manage-users.md)

* [Create and manage teams](create-and-manage-teams.md)

* [Docker Reference Architecture: Securing Docker Datacenter and Security Best

Practices](https://success.docker.com/KBase/Docker_Reference_Architecture%3A_Securing_Docker_Datacenter_and_Security_Best_Practices)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

title: License your installation

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

{: .with-border}

License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

{: .with-border}

Click **Upload License** for the changes to take effect.

Where to go next

* [Install UCP](../install/index.md)

* [Install UCP offline](../install/install-offline.md)

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

title: License Docker Trusted Registry

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License your installation

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Where to go next

*

[Install DTR](index.md)

* [Install DTR offline](install-offline.md)

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description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

title: Permission levels

Docker Trusted Registry allows you to define fine-grain permissions over image

repositories.

Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa.

When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

- * Manage users across Docker Datacenter,
- * Manage DTR repositories and settings,
- * Manage the whole UCP cluster.

Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

Repository operation	read	read-write	admin
View/ browse	x	x	x
Pull	x	x	x
Push		x	x
Delete tags		x	x
Edit description			x
Set public or private			x
Manage user access			x
Delete repository			

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

Overall permissions

Here's an overview of the permission levels available in DTR:

- * Anonymous users: Can search and pull public repositories.
- * Users: Can search and pull public repos, and create and manage their own repositories.
- * Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
- * Team admin: Everything a team member can do, and can also add members to the team.
- * Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
- * DDC admin: Can manage anything across UCP and DTR.

Where to go next

* [Authentication and authorization](index.md)

title: License your installation

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

- * When upgrading to a new major version,

- * When your current license expires.

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Click the **Apply new license** button, and upload your new license file.

Where to go next

*

[Use your own TLS certificates](use-your-own-tls-certificates.md)

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description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

redirect_from:

- /docker-trusted-registry/user-management/permission-levels/

title: Permission levels

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| Repository operation | read | read-write | admin |

|:-----:|:---:|:-----:|:-----:|

|

View/ browse | x | x | x |

| Pull | x | x | x |

| Push | | x | x |

| Delete tags | | x | x |

| Edit description | | | x |

| Set public or private | | | x |

| Manage user access | | | x |

| Delete repository | | | |

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

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Here's an overview of the permission levels available in DTR:

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- * DDC admin: Can manage anything across UCP and DTR.

Where to go next

* [Authentication and authorization](index.md)

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

redirect_from:

- /docker-trusted-registry/license/

- /docker-trusted-registry/install/license

title: License Docker Trusted Registry

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Click

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Where to go next

* [Install DTR](index.md)

* [Install DTR offline](install-dtr-offline.md)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

title: License UCP

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

{: .with-border}

License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

{: .with-border}

Click **Upload License** for the changes to take effect.

Where to go next

* [Install UCP](index.md)

* [Install UCP offline](install-offline.md)

description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

title: Permission levels in DTR

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa. When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

- * Manage users across Docker Datacenter,
- * Manage DTR repositories and settings,
- * Manage the whole UCP cluster.

Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

Repository operation	read	read-write	admin
View/ browse	x	x	x
Pull	x	x	x
Push		x	x
Delete tags		x	x
Edit description			x
Set public or private			x
Manage user access			x
Delete repository			

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

Overall permissions

Here's an overview of the permission levels available in DTR:

- * Anonymous users: Can search and pull public repositories.
- * Users: Can search and pull public repos, and create and manage their own repositories.
- * Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
- * Team admin: Everything a team member can do, and can also add members to the team.
- * Organization admin: Everything a team admin can do, can create

new teams, and add members to the organization.

* DDC admin: Can manage anything across UCP and DTR.

Where to go next

* [Authentication and authorization](index.md)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

redirect_from:

- /ucp/installation/license/

title: License UCP

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

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On the **License** page you can upload the new license.

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Where to go next

* [Install UCP](install-production.md)

* [Install UCP offline](install-offline.md)

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

Default permission level	Description
`No Access`	The user can't view any resource, like volumes, networks, images, or containers.
`View Only`	The user can view volumes, networks and images, but can't create any containers.
`Restricted Control`	The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host.
`Full Control`	The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

****NOTE****: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`.

The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

Team permission level Description	
----- :-----	
`No Access`	The user can't view containers with this label.
`View Only`	The user can view but can't create containers with this label.
`Restricted Control`	The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host.
`Full Control`	The user can view and create containers with this label, without any restriction.

Where to go next

- * [Create and manage users](create-and-manage-users.md)
- * [Create and manage teams](create-and-manage-teams.md)

1.24 ordered-set 4.0.2

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1.25 inf v0.9.0

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1.26 pq v1.0.0

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```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler  
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler  
// on it.  
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}
}

```

1.27 purell v1.1.0

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1.28 go-sql-driver-mysql v1.4.0

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1.31 logrus v0.11.5

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1.32 bolt v1.3.1

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1.33 distlib 0.3.3

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A. HISTORY OF THE SOFTWARE

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

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

software.

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

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

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

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Distutils2 Contributors

=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad DeLong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet
- Jeremy Kloth
- Thomas Kluyver
-

Amos Latteier
- Mathieu Leduc-Hamel
- Pierre Paul Lefebvre
- Tshepang Lekhonkhobe
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- Martin von Lwis
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1.34 dlintw-goconf 0.0.0-20120228082610-dcc070983490

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1.35 urfave-cli 1.20.0

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- * /cas-client-support-saml-3-4-1-sources-jar/org/jasig/cas/client/authentication/Saml11AuthenticationFilter.java

1.36 influxdata-kapacitor 1.5.8-rc0

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//
// For more information: http://goo.gl/8us55a#licenseObject
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1.37 influxdb 1.8.4

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1.38 mgo 0.0.0-20181015135952-eeefdecb41b8

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1.39 sqlx 1.3.4

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1.40 golang-set 1.7.1

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1.42 grpc-go v1.13.0

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1.47 x-time-rate

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1.48 aws-sdk-go v1.8.16

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

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1.51 easyjson

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5

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1.59 go-zookeeper

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1.62 x-crypto

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1.63 prometheus-client

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1.64 prometheus

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Extensions for Protocol Buffers to create more go like structures.

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

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

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

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

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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Go support for Protocol Buffers - Google's data interchange format

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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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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.77 spew

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1.78 x-crypto

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1.79 x-net

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1.81 x-text

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1.82 miekg-dns

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1.83 mitchellh-copystructure

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1.84 mitchellh-mapstructure

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1.85 grpc-go 1.42.0

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1.86 msgpack 1.0.3

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1.87 python-requests 2.27.1

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Requests

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1.89 python-pip 22.0.4

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

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

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

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

A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.5	2.6.4	2010	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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2.2 and above				
2.1.1	2001-now	PSF		yes

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1.94 py3-contextlib 21.6.0-r2

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In 1995, Guido continued his work on Python at the Corporation for

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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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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011		
PSF	yes			
3.2	3.1	2011	PSF	yes
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1.96 py3-ordered-set 4.0.2-r3

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1.101 golang-jwt 3.2.0

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1.102 go-uuid v1.2.0

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1.103 py3-pep 0.12.0-r2

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1.104 py3-more-itertools 8.13.0-r0

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1.105 py3-tomli 2.0.1-r1

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1.106 py3-pip 22.1.1-r0

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes

3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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=====

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=====

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

Footnotes:

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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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1.108 golang 1.13.6

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1.110 golang 1.18.4

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1.112 influxdb 1.7.1

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1.113 ghodss-yaml

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Any executables

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1.116 html5lib 1.1

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1.120 tenacity 8.0.1

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1.122 idna 14.0.0

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Julien Danjou
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Jon Dufresne
Tim Graham
Thomas Grainger
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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1.129 toml 0.10.2

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1.130 distro 1.7.0

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1.131 golang 1.18.6

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1.132 nats.go 1.13.1-0.20211018182449-f2416a8b1483

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1.133 xxhash

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1.134 beego-beego 2.0.5

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1.136 gosnmp 1.32.0

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1.137 golang-lru 0.5.4

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1.140 spew 1.1.1

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1.141 golang-protobuf-extensions 1.0.1

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1.142 gokrb5 8.4.2

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1.143 google-uuid 1.3.0

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1.144 goprotobuf 1.5.2

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1.148 libc-utils 0.7.2-r3

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1.149 bzip2 1.0.8-r1

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

1.150 libunistring 1.0-r0

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1.151 github.com/antchfx/xmlquery 1.3.9

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1.152 busybox 1.35.0-r17

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.153 pq 1.10.5

1.153.1 Available under license :

```
//go:build go1.10
// +build go1.10
```

```
package pq
```

```
import (
    "context"
    "database/sql/driver"
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
```

```

return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
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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```

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1.154 protobuf 1.27.1

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1.155 etcd 3.5.2

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1.157 goprotobuf 1.5.2

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1.158 pax-utils 1.3.4-r0

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1.160 openssl 1.1.1q-r0

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Description: Bindings to OpenSSL libssl and libcrypto, plus custom SSH pubkey parsers. Supports RSA, DSA and EC curves P-256, P-384 and P-521. Cryptographic signatures can either be created and verified manually or via

x509 certificates. AES can be used in cbc, ctr or gcm mode for symmetric encryption; RSA for asymmetric (public key) encryption or EC for Diffie Hellman. High-level envelope functions combine RSA and AES for encrypting arbitrary sized data. Other utilities include key generators, hash functions (md5, sha1, sha256, etc), base64 encoder, a secure random number generator, and 'bignum' math methods for manually performing crypto calculations on large multibyte integers.

Packaged: 2018-11-15 13:15:06 UTC; jeroen

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Title: Toolkit for Encryption, Signatures and Certificates Based on OpenSSL

URL: <https://github.com/jeroen/openssl#readme>

BugReports: <https://github.com/jeroen/openssl/issues>

SystemRequirements:

OpenSSL >= 1.0.1

RoxygenNote: 6.1.1

VignetteBuilder: knitr

Maintainer: Jeroen Ooms <jeroen@berkeley.edu>

Type: Package

Repository: CRAN

Version: 1.1

Suggests: testthat, digest, knitr, rmarkdown, jsonlite, jose

NeedsCompilation: yes

Author: Jeroen Ooms [aut, cre] (<<https://orcid.org/0000-0002-4035-0289>>), Oliver Keyes [ctb]

Package: openssl

Authors@R: c(person("Jeroen", "Ooms", role = c("aut", "cre"), email = "jeroen@berkeley.edu", comment = c(ORCID = "0000-0002-4035-0289")), person("Oliver", "Keyes", role = "ctb"))

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1.161 google-uuid 1.3.0

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1.162 bytearraypool 1.0.0

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1.163 go-yaml 2.4.0

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1.164 go-systemd 22.3.2

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1.166 x-sys 0.0.0-20220114195835-da31bd327af9

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1.167 jackc-chunkreader 2.0.1

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1.168 influxdb 1.9.4

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1.169 prometheus-client 0.2.0

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1.170 alpine-keys 2.4-r1

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1.171 prometheus-common 0.30.0

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1.172 libproc 3.3.17-r1

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1.173 python-setuptools 59.4.0

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1.174 supervisor 4.2.0

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1.175 klauspost-compress 1.15.0

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1.179 x-net 0.0.0-20220927171203-f486391704dc

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1.186 brotli 1.0.9-r6

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1.187 logrus 1.8.1

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1.188 golang-genproto 0.0.0-20210716133855-ce7ef5c701ea

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1.189 alpine-baselayout-data 3.2.0-r23

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/alpine-baselayout-3-2-0-r23-tgz/z: binary file matches

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* /bin/grep

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/*

* Create mount directories in fstab

*

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*

* usage: mkmntdirs [fstab]

*

*/

Found in path(s):

* /alpine-baselayout-3-2-0-r23-tgz/mkmntdirs.c

1.190 fsnotify 1.5.1

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1.191 go.uber.org/atomic 1.7.0

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1.192 globalsign-mgo 0.0.0-20181015135952-eeefdecbb41b8

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1.193 prometheus-client 1.11.1

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1.194 perks 1.0.1

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1.195 tzdata 2022a-r0

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1.196 influxdb 1.9.3

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1.197 json-iterator-go 1.1.11

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1.198 python-pip 22.1.1

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Contributors

- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
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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

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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=====

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=====

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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.204 netcat-openbsd 1.130-r3

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1.205 jcmtturner-gokrb 8.4.2

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1.206 github.com/influxdata/kapacitor 1.5.8-rc0

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```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
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Go support for Protocol Buffers - Google's data interchange format

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metrics from the pseudo-filesystem proc.

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1.207 queue 1.1.0

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1.208 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.216 go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.217 ncurses 6.3_p20220521-r0

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1.218 fasthttp 1.40.0

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1.219 deckarep-golang-set 1.7.1

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1.220 sqlx 1.3.4

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1.221 golang-lru 0.5.4

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1.225 zap 1.17.0

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1.228 jcmturner-gofork 1.0.0

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1.230 expat 2.4.9-r0

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1.232 antchfx-xpath 1.2.0

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1.233 py3-setuptools 59.4.0-r0

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1.234 github.com/dlintw/goconf 0.0.0-20120228082610-dcc070983490

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Metadata-Version: 1.1

Name: mimeparse

Version: 0.1.3

Author: Joe Gregorio

Author-email: joe@bitworking.org

Maintainer: Joe Gregorio

Maintainer-email: joe@bitworking.org

Home-page: <http://code.google.com/p/mimeparse/>

Download-url: <http://code.google.com/p/mimeparse/downloads/list>

Summary: mimeparse

License: MIT License

Description: A module provides basic functions for parsing mime-type names and matching them against a list of media-ranges.

Keywords: python mime-type

Platform: any

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include/bsd/timeconv.h
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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd

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man/fmtcheck.3bsd

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man/strncpy.3bsd

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src/arc4random_linux.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/freezero.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c

src/getentropy_hurd.c

src/getentropy_linux.c

src/getentropy_osx.c

src/getentropy_solaris.c

src/getentropy_win.c

src/readpassphrase.c

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1.236 gojsonschema 1.2.0

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1.237 grpc-go 1.27.0

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1.238 go-uber-org-multierr 1.6.0

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1.239 x-net 0.0.0-20220225172249-27dd8689420f

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1.240 nats-go 1.13.1-0.20211018182449-f2416a8b1483

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1.241 gogoprotobuf 1.3.2

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1.242 iputils 20211215-r0

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Ty Coon, President of Vice
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1.243 semver 3.5.1+incompatible

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1.244 jackc-pgtype 1.10.0

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1.245 jackc-pgservicefile 0.0.0-20200714003250-2b9c44734f2b

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1.246 jcmturner-aescts 2.0.0

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1.247 nghttp2 1.47.0-r0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.248 github.com/beego/beego/v2 2.0.5

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1.249 klauspost-compress 1.13.6

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```

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1.252 shadow 4.10-r3

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1.261 pierrec-lz4 2.6.1+incompatible

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1.262 jackc-pgio 1.0.0

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1.263 pam 1.5.2-r1

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1.264 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.265 alpine-baselayout 3.2.0-r23

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/alpine-baselayout-3-2-0-r23-tgz/z: binary file matches

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* /bin/grep

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/*

* Create mount directories in fstab

*

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*

* usage: mkmntdirs [fstab]

*

*/

Found in path(s):

* /alpine-baselayout-3-2-0-r23-tgz/mkmntdirs.c

1.266 jackc-pgconn 1.11.0

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1.267 go-resiliency 1.2.0

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1.268 gdbm 1.23-r0

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1.269 sarama 1.30.0

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1.270 influxdb 1.1.0

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1.271 jcmturner-rpc 2.0.3

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1.272 jackc-pgproto 2.2.0

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1.273 etcd-client-pkg 3.5.4

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1.274 py3-appdirs 1.4.4-r3

1.274.1 Available under license :

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1.275 cpp 11.2.1_git20220219-r2

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From 4ea687132408a7c662706c4a7eb3c61b7773d735 Mon Sep 17 00:00:00 2001
From: "H.J. Lu" <hjl.tools@gmail.com>
Date: Fri, 21 Jan 2022 13:24:00 -0800
Subject: [PATCH] x86: Properly disable -fsplit-stack support on non-glibc targets

Revert x86 changes in

commit c163647ffbc9a20c8feb6e079dbecccf016c82e

Author: Soren Tempel <soeren@soeren-tempel.net>

Date: Fri Jan 21 19:22:46 2022 +0000

Disable -fsplit-stack support on non-glibc targets

and change ix86_supports_split_stack to return true only on glibc.

PR bootstrap/104170

* common/config/i386/i386-common.c (ix86_supports_split_stack):

Return true only on glibc.

* config/i386/gnu-user-common.h (STACK_CHECK_STATIC_BUILTIN):

Revert commit c163647ffbc.

* config/i386/gnu.h (TARGET_LIBC_PROVIDES_SSP): Likewise.

gcc/common/config/i386/i386-common.c | 17 ++++++++-----

gcc/config/i386/gnu-user-common.h | 5 +---

gcc/config/i386/gnu.h

| 5 +----

3 files changed, 14 insertions(+), 13 deletions(-)

diff --git a/gcc/common/config/i386/i386-common.c b/gcc/common/config/i386/i386-common.c

index 96549aa7d7e..a3b5258e828 100644

--- a/gcc/common/config/i386/i386-common.c

+++ b/gcc/common/config/i386/i386-common.c

@@ -1696,16 +1696,21 @@ ix86_option_init_struct (struct gcc_options *opts)

field in the TCB, so they cannot be used together. */

static bool

-ix86_supports_split_stack (bool report ATTRIBUTE_UNUSED,

+ix86_supports_split_stack (bool report,

struct gcc_options *opts ATTRIBUTE_UNUSED)

{

+#ifdef TARGET_THREAD_SPLIT_STACK_OFFSET

+ if (opts->x_linux_libc != LIBC_GLIBC)

+#endif

+ {

+ if (report)

+ error ("%<-fsplit-stack%> currently only supported on GNU/Linux");

+ return false;

+ }

+

bool ret = true;

-#ifndef TARGET_THREAD_SPLIT_STACK_OFFSET

```

- if (report)
- error ("%<-fsplit-stack%> currently only supported on GNU/Linux");
- ret = false;
-#else
+#ifdef TARGET_THREAD_SPLIT_STACK_OFFSET
+ if (!HAVE_GAS_CFI_PERSONALITY_DIRECTIVE)
+ {
+     if (report)
diff --git a/gcc/config/i386/gnu-user-common.h b/gcc/config/i386/gnu-user-common.h
index 6e13315b5a3..00226f5a455 100644
--- a/gcc/config/i386/gnu-user-common.h
+++ b/gcc/config/i386/gnu-user-common.h
@@ -66,8 +66,7 @@ along with GCC; see the file COPYING3. If not see
#define STACK_CHECK_STATIC_BUILTIN 1

/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support for the CFI directives and
- targets glibc. */
-#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && OPTION_GLIBC
+ assembler has full support for the CFI directives. */
+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
#define TARGET_CAN_SPLIT_STACK
#endif
diff --git a/gcc/config/i386/gnu.h b/gcc/config/i386/gnu.h
index afd3e8e8841..25fbc07f58c 100644
--- a/gcc/config/i386/gnu.h
+++ b/gcc/config/i386/gnu.h
@@ -35,10 +35,7 @@ along with GCC. If not, see <http://www.gnu.org/licenses/>.
crti.o%s %static:crtbeginT.o%s;shared|pie:crtbeginS.o%s;;crtbegin.o%s}"
#endif

-/* -fsplit-stack uses a field in the TCB at a fixed offset. This
- field is only available for glibc. Disable -fsplit-stack for
- other libc implementations to avoid silent TCB corruptions. */
-#if defined (TARGET_LIBC_PROVIDES_SSP) && OPTION_GLIBC
+#ifdef TARGET_LIBC_PROVIDES_SSP

/* i386 glibc provides __stack_chk_guard in %gs:0x14. */
#define TARGET_THREAD_SSP_OFFSET    0x14
--
2.35.1

```

Found in path(s):

* /gcc-11-2-1-tar-gz/0047-x86-Properly-disable-fsplit-stack-support-on-non-gli.patch

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From 52ce9c86c0c89ae45e0d08cc232682e1811aa8f2 Mon Sep 17 00:00:00 2001

From: Drew DeVault <sir@cmpwn.com>

Date: Wed, 9 Dec 2020 16:07:26 +0000

Subject: [PATCH] configure: Add --enable-autolink-libatomic, use in
LINK_GCC_C_SEQUENCE_SPEC [PR81358]

This fixes issues with RISC-V.

```
Makefile.in      | 1 +
gcc/config.in    | 6 ++++++
gcc/config/gnu-user.h | 12 ++++++++--
gcc/configure     | 34 ++++++++-----
gcc/configure.ac  | 22 ++++++++--
gcc/doc/install.texi | 8 ++++++
gcc/doc/tm.texi   | 8 ++++++
gcc/doc/tm.texi.in | 8 ++++++
gcc/gcc.c        | 12 ++++++++
9 files changed, 103 insertions(+), 8 deletions(-)
```

diff --git a/Makefile.in b/Makefile.in

index f97db1ef569..7e577ed3dbb 100644

--- a/Makefile.in

+++ b/Makefile.in

```
@@ -222,6 +222,7 @@ HOST_EXPORTS = \
RANLIB_FOR_TARGET="$(RANLIB_FOR_TARGET)"; export RANLIB_FOR_TARGET; \
READELF_FOR_TARGET="$(READELF_FOR_TARGET)"; export READELF_FOR_TARGET; \
TOplevel_CONFIGURE_ARGUMENTS="$(TOplevel_CONFIGURE_ARGUMENTS)"; export
TOplevel_CONFIGURE_ARGUMENTS; \
+ TARGET_CONFIGDIRS="$(TARGET_CONFIGDIRS)"; export TARGET_CONFIGDIRS; \
HOST_LIBS="$(STAGE1_LIBS)"; export HOST_LIBS; \
GMPLIBS="$(HOST_GMPLIBS)"; export GMPLIBS; \
GMPINC="$(HOST_GMPINC)"; export GMPINC; \
```

diff --git a/gcc/config.in b/gcc/config.in

index 059c818c895..2a560417440 100644

--- a/gcc/config.in

+++ b/gcc/config.in

```
@@ -106,6 +106,12 @@
```

```
#endif
```

```
/* Define if libatomic should always be linked. */
```

```
#ifndef USED_FOR_TARGET
```

```
#undef ENABLE_AUTOLINK_LIBATOMIC
```

```
#endif
```

```
+
```

```
+
```

```
/* Define to 1 to specify that we are using the BID decimal floating point
format instead of DPD */
```

```
#ifndef USED_FOR_TARGET
```

diff --git a/gcc/config/gnu-user.h b/gcc/config/gnu-user.h

```

index 902378e1bad..daf7727a01a 100644
--- a/gcc/config/gnu-user.h
+++ b/gcc/config/gnu-user.h
@@ -109,8 +109,18 @@ see the files COPYING3 and
COPYING.RUNTIME respectively. If not, see
#define LINK_EH_SPEC "%{!static|static-pie:--eh-frame-hdr} "
#endif

+#if !defined(LINK_LIBATOMIC_SPEC) && defined(ENABLE_AUTOLINK_LIBATOMIC)
+# ifdef LD_AS_NEEDED_OPTION
+# define LINK_LIBATOMIC_SPEC LD_AS_NEEDED_OPTION " -latomic "
LD_NO_AS_NEEDED_OPTION
+# else
+# define LINK_LIBATOMIC_SPEC "-latomic"
+# endif
+#elif !defined(LINK_LIBATOMIC_SPEC)
+# define LINK_LIBATOMIC_SPEC ""
+#endif
+
#define GNU_USER_TARGET_LINK_GCC_C_SEQUENCE_SPEC \
- "%{static|static-pie:--start-group} %G %{!nolibc:%L} \
+ "%{static|static-pie:--start-group} %G %{!nolibc:" LINK_LIBATOMIC_SPEC " %L} \
%{static|static-pie:--end-group} %{!static:%{!static-pie:%G}} "

#undef LINK_GCC_C_SEQUENCE_SPEC
diff --git a/gcc/configure b/gcc/configure
index 592e81e40f6..8672298f23f 100755
--- a/gcc/configure
+++ b/gcc/configure
@@ -978,6 +978,7 @@ with_changes_root_url
enable_languages
with_multilib_list
with_multilib_generator
+enable_autolink_libatomic
with_zstd
with_zstd_include
with_zstd_lib
@@ -1707,6 +1708,9 @@ Optional Features:
--disable-shared    don't provide a shared libgcc
--disable-gcov      don't provide libgcov and related host tools
--enable-languages=LIST specify which front-ends to build
+ --enable-autolink-libatomic
+
+     enable automatic linking of libatomic (ignored if
+     not built)
--disable-rpath      do not hardcode runtime library paths
--enable-sjlj-exceptions
                        arrange to use setjmp/longjmp exception handling
@@ -8070,7 +8074,6 @@ else

```

fi

-

Check whether --with-multilib-generator was given.

if test "\${with_multilib_generator+set}" = set; then :

withval=\$with_multilib_generator; :

@@ -8078,6 +8081,32 @@ else

with_multilib_generator=default

fi

+# If libatomic is available, whether it should be linked automatically

+# Check whether --enable-autolink-libatomic was given.

+if test "\${enable_autolink_libatomic+set}"

= set; then :

+ enableval=\$enable_autolink_libatomic;

+ case \$enable_autolink_libatomic in

+ yes | no) ;;

+ *) as_fn_error \$? "'\$enable_autolink_libatomic' is an invalid value for

++enable-autolink-libatomic. Valid choices are 'yes' and 'no'." "\$LINENO" 5 ;;

+ esac

+

+else

+ enable_autolink_libatomic="

+fi

+

+

+if test x\$enable_autolink_libatomic = xyes; then

+ if echo " \${TARGET_CONFIGDIRS} " | grep " libatomic " > /dev/null 2>&1 ; then

+

+\$as_echo "#define ENABLE_AUTOLINK_LIBATOMIC 1" >>confdefs.h

+

+ else

+ { \$as_echo "\$as_me:\${as_lineno-\$LINENO}: WARNING: libatomic is not build for this target, --enable-autolink-libatomic ignored" >&5

+\$as_echo "\$as_me: WARNING: libatomic is not build for this target, --enable-autolink-libatomic ignored" >&2;}

+ fi

+fi

+

Checks for other programs

@@ -19501,7 +19530,7 @@ else

lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2

lt_status=\$lt_dlunknown

cat > conftest.\$ac_ext

<<_LT_EOF

-#line 19501 "configure"

```

+#line 19158 "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
@@ -34068,4 +34097,3 @@ if test -n "$ac_unrecognized_opts" && test "$enable_option_checking" != no; then
$as_echo "$as_me: WARNING: unrecognized options: $ac_unrecognized_opts" >&2;}
fi

-
diff --git a/gcc/configure.ac b/gcc/configure.ac
index 1577529ffb7..e96691f69ba 100644
--- a/gcc/configure.ac
+++ b/gcc/configure.ac
@@ -1149,6 +1149,27 @@ AC_ARG_WITH(multilib-generator,
;,
with_multilib_generator=default)

+# If libatomic is available, whether it should be linked automatically
+AC_ARG_ENABLE(autolink-libatomic,
+[AS_HELP_STRING([--enable-autolink-libatomic],
+ [enable automatic linking of libatomic (ignored if not built)]),
+[
+ case $enable_autolink_libatomic in
+   yes | no) ;;
+   *) AC_MSG_ERROR(['$enable_autolink_libatomic' is an invalid value for
+--enable-autolink-libatomic. Valid choices are 'yes' and 'no'.]) ;;
+   esac
+], [enable_autolink_libatomic="])
+
+if
+ test x$enable_autolink_libatomic = xyes; then
+ if echo " ${TARGET_CONFIGDIRS} " | grep " libatomic " > /dev/null 2>&1 ; then
+   AC_DEFINE(ENABLE_AUTOLINK_LIBATOMIC, 1,
+ [Define if libatomic should always be linked.])
+ else
+   AC_MSG_WARN([libatomic is not build for this target, --enable-autolink-libatomic ignored])
+ fi
+fi
+
+
+# -----
+# Checks for other programs
+# -----
@@ -7729,4 +7750,3 @@ done
],
[subdirs=$subdirs])
AC_OUTPUT
-
diff --git a/gcc/doc/install.texi b/gcc/doc/install.texi

```

index 4c38244ae58..4a544e6a4ee 100644

--- a/gcc/doc/install.texi

+++ b/gcc/doc/install.texi

@@ -2213,6 +2213,14 @@ files, but these changed header paths may conflict with some compilation environments. Enabled by default, and may be disabled using `@option{--disable-canonical-system-headers}`.

+@item --enable-autolink-libatomic

+@itemx --disable-autolink-libatomic

+Tell GCC that it should automatically link libatomic; if supported by the linker,

the file is only linked as needed. This flag is ignored

+when libatomic is not built. Note that this configure flag is in particular

+useful when building an offloading-target compiler; as for those, a

+user had to specify `@code{-foffload=target=-latomic}` otherwise.

+

@item --with-glibc-version=@var{major}.@var{minor}

Tell GCC that when the GNU C Library (glibc) is used on the target it will be version `@var{major}.@var{minor}` or later. Normally this can diff --git a/gcc/doc/tm.texi b/gcc/doc/tm.texi

index b370bc76b25..acc78273983 100644

--- a/gcc/doc/tm.texi

+++ b/gcc/doc/tm.texi

@@ -381,7 +381,13 @@ the argument `@option{-lgcc}` to tell the linker to do the search.

@defmac LINK_GCC_C_SEQUENCE_SPEC

The sequence in which libgcc and libc are specified to the linker.

-By default this is `@code{%G %L %G}`.

+By default this is `@code{%G LINK_LIBATOMIC_SPEC %L %G}`.

+@end defmac

+

+@defmac LINK_LIBATOMIC_SPEC

+This macro is used in the default `@code{LINK_GCC_C_SEQUENCE_SPEC}` to link libatomic.

By default, it is unset unless `@code{ENABLE_AUTOLINK_LIBATOMIC}`

+is set.

@end defmac

@defmac POST_LINK_SPEC

diff --git a/gcc/doc/tm.texi.in b/gcc/doc/tm.texi.in

index 2974dae2701..80e003a38ce 100644

--- a/gcc/doc/tm.texi.in

+++ b/gcc/doc/tm.texi.in

@@ -381,7 +381,13 @@ the argument `@option{-lgcc}` to tell the linker to do the search.

@defmac LINK_GCC_C_SEQUENCE_SPEC

The sequence in which libgcc and libc are specified to the linker.

-By default this is `@code{%G %L %G}`.


```

+By default this is @code{%G LINK_LIBATOMIC_SPEC %L %G}.
+@end defmac
+
+@defmac LINK_LIBATOMIC_SPEC
+This macro is used in the default @code{LINK_GCC_C_SEQUENCE_SPEC} to link
+libatomic. By default, it is unset unless @code{ENABLE_AUTOLINK_LIBATOMIC}
+is set.
+@end defmac

@defmac POST_LINK_SPEC
diff --git a/gcc/gcc.c b/gcc/gcc.c
index 22dbbf85850..90aa576037a 100644
--- a/gcc/gcc.c
+++ b/gcc/gcc.c
@@ -980,13 +980,23 @@ proper position among the other output files. */
# define ASM_DEBUG_OPTION_SPEC
""
#endif

+#if !defined(LINK_LIBATOMIC_SPEC) && defined(ENABLE_AUTOLINK_LIBATOMIC)
+# ifdef LD_AS_NEEDED_OPTION
+# define LINK_LIBATOMIC_SPEC LD_AS_NEEDED_OPTION "-latomic "
LD_NO_AS_NEEDED_OPTION
+# else
+# define LINK_LIBATOMIC_SPEC "-latomic"
+# endif
+#elif !defined(LINK_LIBATOMIC_SPEC)
+# define LINK_LIBATOMIC_SPEC ""
+#endif
+
+/* Here is the spec for running the linker, after compiling all files. */

/* This is overridable by the target in case they need to specify the
-lgcc and -lc order specially, yet not require them to override all
of LINK_COMMAND_SPEC. */
#ifndef LINK_GCC_C_SEQUENCE_SPEC
#define LINK_GCC_C_SEQUENCE_SPEC "%G %!nolibc:%L %G}"
#define LINK_GCC_C_SEQUENCE_SPEC "%G %!nolibc:" LINK_LIBATOMIC_SPEC " %L %G}"
#endif

#ifdef ENABLE_DEFAULT_SSP
--
2.35.1

```

Found in path(s):

* /gcc-11-2-1-tar-gz/0039-configure-Add-enable-autolink-libatomic-use-in-LINK_.patch

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From 72f32e3383129ad139df76d9a063fac9b03079b1 Mon Sep 17 00:00:00 2001

From: Alex McGrath <amk@amk.ie>

Date: Wed, 13 Oct 2021 23:24:27 +0100

Subject: [PATCH] Fix attempt to use poisoned calloc error in libgccjit

This moves usages of pthread.h to above any usage of system.h as it included #pragma GCC poison calloc

gcc/jit/jit-playback.c | 4 ++--

gcc/jit/jit-recording.c | 4 ++--

gcc/jit/libgccjit.c | 3 ++-

3 files changed, 6 insertions(+), 5 deletions(-)

diff --git a/gcc/jit/jit-playback.c b/gcc/jit/jit-playback.c

index cee9daa8220..a5600084933 100644

--- a/gcc/jit/jit-playback.c

+++ b/gcc/jit/jit-playback.c

@@ -18,6 +18,8 @@ You should have received a copy of the GNU General Public License
along with GCC; see the file COPYING3. If not see

<<http://www.gnu.org/licenses/>>. */

+#include <pthread.h>

+

#include "config.h"

#include "system.h"

#include "coretypes.h"

@@ -41,8 +43,6 @@ along with GCC; see
the file COPYING3. If not see

#include "diagnostic.h"

#include "stmt.h"

+#include <pthread.h>

-

#include "jit-playback.h"

#include "jit-result.h"

#include "jit-builtins.h"

diff --git a/gcc/jit/jit-recording.c b/gcc/jit/jit-recording.c

index 117ff70114c..d2634a546b1 100644

--- a/gcc/jit/jit-recording.c

+++ b/gcc/jit/jit-recording.c

@@ -18,6 +18,8 @@ You should have received a copy of the GNU General Public License
along with GCC; see the file COPYING3. If not see

<<http://www.gnu.org/licenses/>>. */

+#include <pthread.h>

+

#include "config.h"

#include "system.h"

```
#include "coretypes.h"
@@ -25,8 +27,6 @@ along with GCC; see the file COPYING3. If not see
#include "pretty-print.h"
#include "toplev.h"
```

```
+#include <pthread.h>
```

```
-
```

```
#include "jit-builtins.h"
#include "jit-recording.h"
#include "jit-playback.h"
diff --git a/gcc/jit/libgccjit.c b/gcc/jit/libgccjit.c
index 0cc650f9810..2f44481eeb0 100644
--- a/gcc/jit/libgccjit.c
+++ b/gcc/jit/libgccjit.c
```

```
@@ -18,13 +18,14 @@ You
should have received a copy of the GNU General Public License
along with GCC; see the file COPYING3. If not see
<http://www.gnu.org/licenses/>. */
```

```
+#include <pthread.h>
+
#include "config.h"
#include "system.h"
#include "coretypes.h"
#include "timevar.h"
#include "typed-splay-tree.h"
#include "cppbuiltin.h"
+#include <pthread.h>
```

```
#include "libgccjit.h"
#include "jit-recording.h"
```

```
--
```

2.35.1

Found in path(s):

* /gcc-11-2-1-tar-gz/0042-Fix-attempt-to-use-poisoned-calloc-error-in-libgccji.patch

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From 18bcf23cae4069ffe9d9f64e851193d29dd4814f Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren+git@soeren-tempel.net>

Date: Mon, 3 Jan 2022 07:14:48 +0100

Subject: [PATCH] riscv: disable multilib support

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

From the musl wiki [1]:

musl does not support sharing an include directory between archs [...], and thus is not compatible with GCC-style multilib. It is recommended that distributions build GCC with multilib disabled, and use library directories named lib, not lib64 or lib32.

For this reason, we patch existing GCC configuration files (gcc/config) to pin MULTILIB_OSDIRNAMES to lib, there is also a corresponding GCC upstream bug about this issue [2]. Avoiding the use of lib64 and lib32 directories is a bit more difficult on the RISC-V architecture. This is due to the fact that the default RISC-V configuration does not only use the lib64 and lib32 directories but also subdirectories within these directories for different RISC-V ABIs (e.g. lp64d, lp64, ...) [3].

This patch aligns the RISC-V configuration with other architectures by pinning MULTILIB_OSDIRNAMES to lib for rv64gc (our default RISC-V -march). Furthermore, this patch removes the ABI-specific startfile prefix spec. Since both of these impact the default LIBRARY_PATH [4] this patch thereby aligns the default RISC-V LIBRARY_PATH with that from other Alpine architectures and thereby fixes #13369 [5].

Incidentally, this also fixes gccgo on riscv64, as without this patch gccgo is otherwise not able to find the *.gox files for the Go standard library.

[1]: https://wiki.musl-libc.org/guidelines-for-distributions.html#Multilib/multi_arch

[2]: https://gcc.gnu.org/bugzilla/show_bug.cgi?id=90077

[3]: https://gcc.gnu.org/bugzilla/show_bug.cgi?id=103889#c14

[4]:

<https://gcc.gnu.org/git/?p=gcc.git;a=blob;f=gcc/gcc.c;h=d4c8746b0aa322286decf92aa72a12f0a393b655;hb=HEAD#l9122>

[5]:

<https://gitlab.alpinelinux.org/alpine/aports/-/issues/13369>

gcc/config/riscv/linux.h | 6 -----

gcc/config/riscv/t-linux | 7 +++++--

2 files changed, 5 insertions(+), 8 deletions(-)

diff --git a/gcc/config/riscv/linux.h b/gcc/config/riscv/linux.h

index ee29979dd34..fe8a82d6702 100644

--- a/gcc/config/riscv/linux.h

+++ b/gcc/config/riscv/linux.h

@@ -71,9 +71,3 @@ along with GCC; see the file COPYING3. If not see
%{static:-static} }"

#define TARGET_ASM_FILE_END file_end_indicate_exec_stack

-

+#define STARTFILE_PREFIX_SPEC \

```

- "/lib" XLEN_SPEC "/" ABI_SPEC "/" " \
- "/usr/lib" XLEN_SPEC "/" ABI_SPEC "/" " \
- "/lib/ " \
- "/usr/lib/ "
diff --git a/gcc/config/riscv/t-linux b/gcc/config/riscv/t-linux
index 216d2776a18..1a8a863853e 100644
--- a/gcc/config/riscv/t-linux
+++ b/gcc/config/riscv/t-linux
@@ -1,3 +1,6 @@
-# Only XLEN and ABI affect Linux multilib dir names, e.g. /lib32/ilp32d/
-MULTILIB_DIRNAMES := $(patsubst rv32%,lib32,$(patsubst
rv64%,lib64,$(MULTILIB_DIRNAMES)))
+MULTILIB_OPTIONS := march=rv64gc
+MULTILIB_DIRNAMES := rv64gc
+
+MULTILIB_DIRNAMES := $(patsubst rv32%,lib32,$(patsubst rv64%,lib,$(MULTILIB_DIRNAMES)))
MULTILIB_OSDIRNAMES := $(patsubst lib%,../lib%,$(MULTILIB_DIRNAMES))
+MULTILIB_MATCHES := march?rv64gc=march?rv64imafdc
--
2.35.1

```

Found in path(s):

* /gcc-11-2-1-tar-gz/0029-riscv-disable-multilib-support.patch

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

From 400bae077d11c3a2ee9f4c8b96c31bbf39416a4f Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren@soeren-tempel.net>

Date: Mon, 21 Feb 2022 04:13:47 +0100

Subject: [PATCH] x86: Fix -fsplit-stack feature detection via

TARGET_CAN_SPLIT_STACK

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

Since commit c163647ffbc9a20c8feb6e079dbecccf016c82e -fsplit-stack is only supported on glibc targets. However, this original commit required some fixups. As part of the fixup, the changes to the gnu-user-common.h and gnu.h were partially reverted in commit 60953a23d57b13a672f751bec0c6eefc059eb1ab thus causing TARGET_CAN_SPLIT_STACK to be defined for non-glibc targets even though -fsplit-stack is actually not supported and attempting to use it causes a runtime error.

This causes gcc internal code, such as ./gcc/go/gospec.c to not correctly detect that -fsplit-stack is not supported and thus causes gccgo to fail compilation on non-glibc targets.

This commit ensures that TARGET_CAN_SPLIT_STACK is set based on the

changes performed in 2c31a8be4a5db11a0a0e97c366dded6362421086, i.e. the new `OPTION_GLIBC_P` macro is now used to detect if `-fsplit-stack` is supported in the x86 header files.

The proposed changes have been tested on x86_64 Alpine Linux (which uses `musl libc`) and fix compilation of `gccgo` for this target.

Signed-off-by: Sören Tempel <soeren@soeren-tempel.net>

gcc/ChangeLog:

```
* config/i386/gnu-user-common.h (defined): Only define
  TARGET_CAN_SPLIT_STACK for glibc targets.
* config/i386/gnu.h (defined): Ditto.
```

```
gcc/config/i386/gnu-user-common.h | 5 +++--
gcc/config/i386/gnu.h              | 5 +++--
2 files changed, 6 insertions(+), 4 deletions(-)
```

```
diff --git a/gcc/config/i386/gnu-user-common.h b/gcc/config/i386/gnu-user-common.h
index 00226f5a455..4e3fbb1de05 100644
--- a/gcc/config/i386/gnu-user-common.h
+++ b/gcc/config/i386/gnu-user-common.h
@@
-66,7 +66,8 @@ along with GCC; see the file COPYING3. If not see
#define STACK_CHECK_STATIC_BUILTIN 1
```

```
/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support for the CFI directives. */
-#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
+ assembler has full support for the CFI directives. Also
+ we only support -fsplit-stack on glibc targets. */
+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && defined(OPTION_GLIBC_P)
#define TARGET_CAN_SPLIT_STACK
#endif
diff --git a/gcc/config/i386/gnu.h b/gcc/config/i386/gnu.h
index 25fbc07f58c..41a6a37dfee 100644
--- a/gcc/config/i386/gnu.h
+++ b/gcc/config/i386/gnu.h
@@ -41,8 +41,9 @@ along with GCC. If not, see <http://www.gnu.org/licenses/>.
#define TARGET_THREAD_SSP_OFFSET    0x14
```

```
/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support for the CFI directives. */
-#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
+ assembler has full support for the CFI directives.
  Also
+ we only support -fsplit-stack on glibc targets. */
```

```

+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && defined(OPTION_GLIBC_P)
#define TARGET_CAN_SPLIT_STACK
#endif
/* We steal the last transactional memory word. */
--
2.35.1

```

Found in path(s):

* /gcc-11-2-1-tar-gz/0050-x86-Fix-fsplit-stack-feature-detection-via-TARGET_CA.patch

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

From 586e82425a024d85d1bd9952ca51d8a671aa9b5d Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 06:57:51 +0000

Subject: [PATCH] dlang: update zlib binding

libphobos/src/std/zlib.d | 266 ++++++-----

1 file changed, 196 insertions(+), 70 deletions(-)

diff --git a/libphobos/src/std/zlib.d b/libphobos/src/std/zlib.d

index e6cce240fd5..bd2fe37ebec 100644

--- a/libphobos/src/std/zlib.d

+++ b/libphobos/src/std/zlib.d

@@ -1,7 +1,7 @@

// Written in the D programming language.

/**

- * Compress/decompress data using the \$(HTTP www._zlib.net, _zlib library).

+ * Compress/decompress data using the \$(HTTP www.zlib.net, zlib library).

*

* Examples:

*

@@@ -43,12 +43,12 @@@

* References:

* \$(HTTP en.wikipedia.org/wiki/Zlib, Wikipedia)

*

- * Copyright: Copyright Digital Mars 2000 - 2011.

+ * Copyright: Copyright The D Language Foundation 2000

- 2011.

* License: \$(HTTP www.boost.org/LICENSE_1_0.txt, Boost License 1.0).

* Authors: \$(HTTP digitalmars.com, Walter Bright)

- * Source: \$(PHOBOSSRC std/_zlib.d)

+ * Source: \$(PHOBOSSRC std/zlib.d)

*/

/* Copyright Digital Mars 2000 - 2011.

+/* Copyright The D Language Foundation 2000 - 2011.

* Distributed under the Boost Software License, Version 1.0.

* (See accompanying file LICENSE_1_0.txt or copy at

* http://www.boost.org/LICENSE_1_0.txt)

@@ -75,9 +75,9 @@ enum

class ZlibException : Exception

{

- this(int errnum)

- { string msg;

-

+ private static string getmsg(int errnum) nothrow @nogc pure @safe

+ {

+ string msg;

switch (errnum)

{

case Z_STREAM_END: msg = "stream end"; break;

@@ -90,7 +90,12 @@ class ZlibException : Exception

case Z_VERSION_ERROR: msg = "version error"; break;

default: msg = "unknown error"; break;

}

- super(msg);

+ return msg;

+ }

+

+ this(int errnum)

+ {

+ super(getmsg(errnum));

}

}

@@ -104,7 +109,7 @@ class ZlibException : Exception

* buf = buffer containing input data

*

* Returns:

- * A \$(D uint) checksum for the provided input data and starting checksum

+ * A `uint` checksum for the provided input data and starting checksum

*

* See_Also:

* \$(LINK <http://en.wikipedia.org/wiki/Adler-32>)

@@ -147,7 +152,7 @@ uint Adler32(uint Adler, const(void)[] buf)

* buf = buffer containing input data

*

* Returns:

- * A \$(D uint) checksum for the provided input data and starting checksum

+ * A `uint` checksum for the provided input data and starting checksum

*

* See_Also:

* \$(LINK http://en.wikipedia.org/wiki/Cyclic_redundancy_check)


```

@@ -191,13 +196,14 @@ uint crc32(uint crc, const(void)[] buf)
ubyte[] compress(const(void)[] srcbuf, int level)
in
{
-   assert(-1 <= level && level <= 9);
+
+   assert(-1 <= level && level <= 9, "Compression level needs to be within [-1, 9].");
}
-body
+do
{
    import core.memory : GC;
+   import std.array : uninitializedArray;
    auto destlen = srcbuf.length + ((srcbuf.length + 1023) / 1024) + 12;
-   auto destbuf = new ubyte[destlen];
+   auto destbuf = uninitializedArray!(ubyte[])(destlen);
    auto err = etc.c.zlib.compress2(destbuf.ptr, &destlen, cast(ubyte *) srcbuf.ptr, srcbuf.length, level);
    if (err)
    {
@@ -276,7 +282,7 @@ void[] uncompress(const(void)[] srcbuf, size_t destlen = 0u, int winbits = 15)
        throw new ZlibException(err);
    }
}
-   assert(0);
+   assert(0, "Unreachable code");
}

@system unittest
@@ -370,9 +376,9 @@ class Compress
    this(int level, HeaderFormat header = HeaderFormat.deflate)
    in
    {
-       assert(1 <= level && level <= 9);
+       assert(1 <= level && level <= 9, "Legal compression level are in [1, 9].");
    }
-   body
+   do
    {

        this.level = level;
        this.gzip = header == HeaderFormat.gzip;
@@ -406,6 +412,7 @@ class Compress
    const(void)[] compress(const(void)[] buf)
    {
        import core.memory : GC;
+       import std.array : uninitializedArray;
        int err;
        ubyte[] destbuf;

```

```

@@ -420,7 +427,7 @@ class Compress
    init = 1;
}

-   destbuf = new ubyte[zs.avail_in + buf.length];
+   destbuf = uninitializedArray!(ubyte[])(zs.avail_in + buf.length);
    zs.next_out = destbuf.ptr;
    zs.avail_out = to!uint(destbuf.length);

@@ -461,9 +468,10 @@ class Compress
    void[] flush(int mode = Z_FINISH)
    in
    {
-       assert(mode == Z_FINISH || mode == Z_SYNC_FLUSH || mode == Z_FULL_FLUSH);
+       assert(mode == Z_FINISH || mode == Z_SYNC_FLUSH || mode == Z_FULL_FLUSH,
+           "Mode must be either Z_FINISH, Z_SYNC_FLUSH or Z_FULL_FLUSH.");
    }
-   body
+   do
    {
        import core.memory : GC;
        ubyte[] destbuf;
@@
-523,6 +531,7 @@ class UnCompress
    z_stream zs;
    int init;
    int done;
+   bool inputEnded;
    size_t destbufsize;

    HeaderFormat format;
@@ -571,16 +580,16 @@ class UnCompress
    const(void)[] uncompress(const(void)[] buf)
    in
    {
-       assert(!done);
+       assert(!done, "Buffer has been flushed.");
    }
-   body
+   do
    {
+       if (inputEnded || !buf.length)
+           return null;
+
        import core.memory : GC;
+       import std.array : uninitializedArray;
        int err;

```

```

-   ubyte[] destbuf;
-
-   if (buf.length == 0)
-       return null;

    if (!inited)
    {
@@ -598,26 +607,152 @@ class UnCompress

        if (!destbufsize)
            destbufsize = to!uint(buf.length) * 2;
-       destbuf = new ubyte[zs.avail_in * 2 + destbufsize];
-       zs.next_out = destbuf.ptr;
-       zs.avail_out = to!uint(destbuf.length);
-
-       if (zs.avail_in)
-           buf = zs.next_in[0 .. zs.avail_in]
~ cast(ubyte[]) buf;
+       auto destbuf = uninitializedArray!(ubyte[])(destbufsize);
+       size_t destFill;

        zs.next_in = cast(ubyte*) buf.ptr;
        zs.avail_in = to!uint(buf.length);

-       err = inflate(&zs, Z_NO_FLUSH);
-       if (err != Z_STREAM_END && err != Z_OK)
+       while (true)
        {
-           GC.free(destbuf.ptr);
-           error(err);
+           auto oldAvailIn = zs.avail_in;
+
+           zs.next_out = destbuf[destFill .. $].ptr;
+           zs.avail_out = to!uint(destbuf.length - destFill);
+
+           err = inflate(&zs, Z_NO_FLUSH);
+           if (err == Z_STREAM_END)
+           {
+               inputEnded = true;
+               break;
+           }
+           else if (err != Z_OK)
+           {
+               GC.free(destbuf.ptr);
+               error(err);
+           }
+           else if (!zs.avail_in)
+               break;

```

```

+
+      /*
+      According to the zlib manual inflate()
+      stops when either there's
+      no more data to uncompress or the output buffer is full
+      So at this point, the output buffer is too full
+      */
+
+      destFill = destbuf.length;
+
+      if (destbuf.capacity)
+      {
+          if (destbuf.length < destbuf.capacity)
+              destbuf.length = destbuf.capacity;
+          else
+          {
+              auto newLength = GC.extend(destbuf.ptr, destbufsize, destbufsize);
+
+              if (newLength && destbuf.length < destbuf.capacity)
+                  destbuf.length = destbuf.capacity;
+              else
+                  destbuf.length += destbufsize;
+          }
+      }
+      else
+          destbuf.length += destbufsize;
+    }
+
+    destbuf.length = destbuf.length - zs.avail_out;
+    return destbuf;
+  }
+
+  // Test for issues 3191 and 9505
+  @system unittest
+  {
+      import std.algorithm.comparison;
+      import std.array;
+      import std.file;
+      import std.zlib;
+
+      // Data that can be easily compressed
+      ubyte[1024] originalData;
+
+      // This should yield a compression ratio of at least 1/2
+      auto compressedData = compress(originalData, 9);
+      assert(compressedData.length < originalData.length / 2,
+          "The compression ratio is too low to accurately test this situation");
+  }

```

```

+
+   auto chunkSize = compressedData.length / 4;
+   assert(chunkSize < compressedData.length,
+         "The length of the compressed data is too small to accurately test this situation");
+
+   auto decompressor = new UnCompress();
+   ubyte[originalData.length] uncompressedData;
+   ubyte[] reusedBuf;
+   int progress;
+
+   reusedBuf.length = chunkSize;
+
+   for (int i = 0; i < compressedData.length; i += chunkSize)
+   {
+       auto len =
+       min(chunkSize, compressedData.length - i);
+       // simulate reading from a stream in small chunks
+       reusedBuf[0 .. len] = compressedData[i .. i + len];
+
+       // decompress using same input buffer
+       auto chunk = decompressor.uncompress(reusedBuf);
+       assert(progress + chunk.length <= originalData.length,
+             "The uncompressed result is bigger than the original data");
+
+       uncompressedData[progress .. progress + chunk.length] = cast(const ubyte[]) chunk[];
+       progress += chunk.length;
+   }
+
+   auto chunk = decompressor.flush();
+   assert(progress + chunk.length <= originalData.length,
+         "The uncompressed result is bigger than the original data");
+
+   uncompressedData[progress .. progress + chunk.length] = cast(const ubyte[]) chunk[];
+   progress += chunk.length;
+
+   assert(progress == originalData.length,
+         "The uncompressed and the
+original data sizes differ");
+   assert(originalData[] == uncompressedData[],
+         "The uncompressed and the original data differ");
+ }
+
+ @system unittest
+ {
+     ubyte[1024] invalidData;
+     auto decompressor = new UnCompress();
+
+     try

```

```

+     {
+         auto uncompressedData = decompressor.uncompress(invalidData);
+     }
+     catch (ZlibException e)
+     {
+         assert(e.msg == "data error");
+         return;
+     }
+
+     assert(false, "Corrupted data didn't result in an error");
+ }
+
+ @system unittest
+ {
+     ubyte[2014] originalData = void;
+     auto compressedData = compress(originalData, 9);
+
+     auto decompressor = new UnCompress();
+     auto uncompressedData = decompressor.uncompress(compressedData ~ cast(ubyte[]) "whatever");
+
+     assert(originalData.length == uncompressedData.length,
+         "The uncompressed and the original data sizes differ");
+
+     assert(originalData[] == uncompressedData[],
+         "The uncompressed and the original data differ");
+     assert(!decompressor.uncompress("whatever").length,
+         "Compression continued after the end");
+ }
+
+ /**
+  * Decompress and return any remaining data.
+  * The returned data should be appended to that returned by uncompress().
+ @@ -626,49 +761,40 @@ class UnCompress
+     void[] flush()
+     in
+     {
+ -     assert(!done);
+ +     assert(!done, "Buffer has been flushed before.");
+     }
+     out
+     {
+ -     assert(done);
+ +     assert(done, "Flushing failed.");
+     }
+ - body
+ + do
+     {
+ -     import core.memory : GC;

```

```

-   ubyte[] extra;
-   ubyte[] destbuf;
-   int err;
-
-   done = 1;
-   if (!inited)
-       return null;
+   return null;
+ }

-   L1:
-   destbuf = new ubyte[zs.avail_in * 2 + 100];
-   zs.next_out = destbuf.ptr;
-   zs.avail_out = to!uint(destbuf.length);
+
+   /// Returns true if all input data has been decompressed and no further data
+   /// can be decompressed (inflate() returned Z_STREAM_END)
+   @property bool empty() const
+   {
+       return inputEnded;
+   }

-   err = etc.c.zlib.inflate(&zs, Z_NO_FLUSH);
-   if (err == Z_OK && zs.avail_out == 0)
-   {
-       extra ~= destbuf;
-       goto L1;
-   }
-   if (err != Z_STREAM_END)
-   {
-       GC.free(destbuf.ptr);
-       if (err == Z_OK)
-           err = Z_BUF_ERROR;
-       error(err);
-   }
-   destbuf = destbuf.ptr[0 .. zs.next_out - destbuf.ptr];
-   err = etc.c.zlib.inflateEnd(&zs);
-   inited = 0;
-   if (err)
-       error(err);
-   if (extra.length)
-       destbuf = extra ~ destbuf;
-   return destbuf;
+   ///
+   @system unittest
+   {
+       // some random data
+       ubyte[1024] originalData = void;

```

```

+
+ // append garbage data (or
+ don't, this works in both cases)
+ auto compressedData = cast(ubyte[]) compress(originalData) ~ cast(ubyte[]) "whatever";
+
+ auto decompressor = new UnCompress();
+ auto uncompressedData = decompressor.uncompress(compressedData);
+
+ assert(uncompressedData[] == originalData[],
+        "The uncompressed and the original data differ");
+ assert(decompressor.empty, "The UnCompressor reports not being done");
+ }
+ }

```

--

2.35.1

Found in path(s):

* /gcc-11-2-1-tar-gz/0016-dlang-update-zlib-binding.patch

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

From 2c6bf28619c9b3bf713f7f5319c5d750a6c297ae Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren@soeren-tempel.net>

Date: Fri, 21 Jan 2022 19:22:46 +0000

Subject: [PATCH] Disable -fsplit-stack support on non-glibc targets

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

The -fsplit-stack option requires the pthread_t TCB definition in the libc to provide certain struct fields at specific hardcoded offsets. As far as I know, only glibc provides these fields at the required offsets. Most notably, musl libc does not have these fields. However, since gcc accesses the fields using a fixed offset, this does not cause a compile-time error, but instead results in a silent memory corruption at run-time with musl libc. For example, on s390x libgcc's __stack_split_initialize CTOR will overwrite the cancel field in the pthread_t TCB on musl.

The -fsplit-stack option

is used within the gcc code base itself by

gcc-go (if available). On musl-based systems with split-stack support (i.e. s390x or x86) this causes Go programs compiled with gcc-go to misbehave at run-time.

This patch fixes gcc-go on musl by disabling -fsplit-stack in gcc itself since it is not supported on non-glibc targets anyhow. This is achieved by checking if gcc targets a glibc-based system. This check has been

added for x86 and s390x, the rs6000 config already checks for TARGET_GLIBC_MAJOR. Other architectures do not have split-stack support. With this patch applied, the gcc-go configure script will detect that -fsplit-stack support is not available and will not use it.

See <https://www.openwall.com/lists/musl/2012/10/16/12>

This patch was written under the assumption that glibc is the only libc implementation which supports the required fields at the required offsets in the pthread_t TCB. The patch has been tested on Alpine Linux Edge on the s390x and x86 architectures by bootstrapping Google's Go implementation with gcc-go.

Signed-off-by: Sören Tempel <soeren@soeren-tempel.net>

gcc/ChangeLog:

```
* common/config/s390/s390-common.c (s390_supports_split_stack):
Only support split-stack on glibc targets.
* config/i386/gnu-user-common.h (STACK_CHECK_STATIC_BUILTIN): Ditto.
* config/i386/gnu.h (defined): Ditto.
```

```
gcc/common/config/s390/s390-common.c | 14 ++++++++----
gcc/config/i386/gnu-user-common.h    |  5 +++--
gcc/config/i386/gnu.h                 |  5 ++++-
3 files changed, 17 insertions(+), 7 deletions(-)
```

```
diff --git a/gcc/common/config/s390/s390-common.c b/gcc/common/config/s390/s390-common.c
index b6bc8501742..8c1e590322d 100644
--- a/gcc/common/config/s390/s390-common.c
+++ b/gcc/common/config/s390/s390-common.c
@@ -116,13 +116,19 @@ s390_handle_option (struct gcc_options *opts ATTRIBUTE_UNUSED,
```

```
/* -fsplit-stack uses a field in the TCB, available with glibc-2.23.
```

```
   We don't verify it, since earlier versions just have padding at
-   its place,
   which works just as well. */
+   its place, which works just as well. For other libc implementations
+   we disable the feature entirely to avoid corrupting the TCB. */
```

```
static bool
-s390_supports_split_stack (bool report ATTRIBUTE_UNUSED,
- struct gcc_options *opts ATTRIBUTE_UNUSED)
+s390_supports_split_stack (bool report,
+ struct gcc_options *opts)
{
- return true;
```

```

+ if (opts->x_linux_libc == LIBC_GLIBC)
+   return true;
+
+ if (report)
+   error ("%<-fsplit-stack%> currently only supported on GNU/Linux");
+ return false;
}

#undef TARGET_DEFAULT_TARGET_FLAGS
diff --git a/gcc/config/i386/gnu-user-common.h b/gcc/config/i386/gnu-user-common.h
index 00226f5a455..6e13315b5a3 100644
--- a/gcc/config/i386/gnu-user-common.h
+++ b/gcc/config/i386/gnu-user-common.h
@@ -66,7 +66,8 @@ along with GCC; see the file COPYING3.  If not see
#define STACK_CHECK_STATIC_BUILTIN 1

/* We only build the -fsplit-stack support in libgcc if the
- assembler has full support
for the CFI directives. */
#ifndef HAVE_GAS_CFI_PERSONALITY_DIRECTIVE
+ assembler has full support for the CFI directives and
+ targets glibc. */
+#if HAVE_GAS_CFI_PERSONALITY_DIRECTIVE && OPTION_GLIBC
#define TARGET_CAN_SPLIT_STACK
#endif
diff --git a/gcc/config/i386/gnu.h b/gcc/config/i386/gnu.h
index 25fbc07f58c..afd3e8e8841 100644
--- a/gcc/config/i386/gnu.h
+++ b/gcc/config/i386/gnu.h
@@ -35,7 +35,10 @@ along with GCC.  If not, see <http://www.gnu.org/licenses/>.
crti.o%s %{static:crtbeginT.o%s;shared|pie:crtbeginS.o%s;;crtbegin.o%s}"
#endif

#ifndef TARGET_LIBC_PROVIDES_SSP
+/* -fsplit-stack uses a field in the TCB at a fixed offset. This
+ field is only available for glibc. Disable -fsplit-stack for
+ other libc implementations to avoid silent TCB corruptions. */
+#if defined (TARGET_LIBC_PROVIDES_SSP) && OPTION_GLIBC

/* i386 glibc provides __stack_chk_guard in %gs:0x14. */
#define TARGET_THREAD_SSP_OFFSET    0x14
--
2.35.1

```

Found in path(s):

* /gcc-11-2-1-tar-gz/0046-Disable-fsplit-stack-support-on-non-glibc-targets.patch

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

From 8de5d46c530ceca9f4add46d5cae3cd52c38eba3 Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 06:46:56 +0000

Subject: [PATCH] On linux targets pass --as-needed by default to the linker,
but always link the sanitizer libraries with --no-as-needed.

```
gcc/config/aarch64/aarch64-linux.h | 1 +
gcc/config/alpha/linux-elf.h       | 2 +-
gcc/config/arm/linux-elf.h         | 1 +
gcc/config/gnu-user.h              | 6 +++---
gcc/config/i386/gnu-user.h         | 2 +-
gcc/config/i386/gnu-user64.h       | 1 +
gcc/config/ia64/linux.h            | 2 +-
gcc/config/mips/gnu-user.h         | 1 +
gcc/config/riscv/linux.h           | 1 +
gcc/config/rs6000/linux64.h        | 4 +++--
gcc/config/rs6000/sysv4.h          | 2 +-
gcc/config/s390/linux.h            | 2 +-
gcc/config/sparc/linux.h           | 2 +-
gcc/gcc.c                          | 28 ++++++-----
14 files changed, 36 insertions(+), 19 deletions(-)
```

diff --git a/gcc/config/aarch64/aarch64-linux.h b/gcc/config/aarch64/aarch64-linux.h

index 7f2529a2a1d..b097e1688aa 100644

--- a/gcc/config/aarch64/aarch64-linux.h

+++ b/gcc/config/aarch64/aarch64-linux.h

@@ -35,6 +35,7 @@

#define CPP_SPEC "%{pthread:-D_REENTRANT}"

#define LINUX_TARGET_LINK_SPEC "%{h*} \

+ --as-needed \

%{static:-Bstatic} \

%{shared:-shared} \

%{symbolic:-Bsymbolic} \

diff --git a/gcc/config/alpha/linux-elf.h b/gcc/config/alpha/linux-elf.h

index c1dae8ca2cf..a87dc740171 100644

--- a/gcc/config/alpha/linux-elf.h

+++ b/gcc/config/alpha/linux-elf.h

@@ -37,7 +37,7 @@ along with GCC; see the file COPYING3. If not see

#define ELF_DYNAMIC_LINKER GNU_USER_DYNAMIC_LINKER

-#define LINK_SPEC "-m elf64alpha %{G*} %{relax:-relax} \

+#define LINK_SPEC "-m elf64alpha --as-needed %{G*} %{relax:-relax} \

%{O*:-O3} %{!O*:-O1} \

%{shared:-shared} \

%{!shared: \

```

diff
--git a/gcc/config/arm/linux-elf.h b/gcc/config/arm/linux-elf.h
index 0c1c4e70b6b..8b581afacdd 100644
--- a/gcc/config/arm/linux-elf.h
+++ b/gcc/config/arm/linux-elf.h
@@ -70,6 +70,7 @@ @@
    %{rdynamic:-export-dynamic} \
    %{!shared:-dynamic-linker " GNU_USER_DYNAMIC_LINKER "} \
-X \
+ --as-needed \
    %{mbig-endian:-EB} %{mlittle-endian:-EL}" \
SUBTARGET_EXTRA_LINK_SPEC

diff --git a/gcc/config/gnu-user.h b/gcc/config/gnu-user.h
index 5ebbf42a13d..902378e1bad 100644
--- a/gcc/config/gnu-user.h
+++ b/gcc/config/gnu-user.h
@@ -136,7 +136,7 @@ @@ see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
#define LIBASAN_EARLY_SPEC "%{!shared:libasan_preinit%O%s} " \
    "%{static-libasan:%{!shared:" \
    LD_STATIC_OPTION " --whole-archive -lasan --no-whole-archive " \
- LD_DYNAMIC_OPTION "}%{!static-libasan:-lasan}"
+ LD_DYNAMIC_OPTION "}%{!static-libasan:%{!fuse-ld=gold:--push-state} --no-as-needed -lasan %{fuse-ld=gold:--as-needed;--pop-state}}"
#undef LIBHWASAN_EARLY_SPEC
#define LIBHWASAN_EARLY_SPEC "%{static-libhwasan:%{!shared:" \
    LD_STATIC_OPTION " --whole-archive -lhwasan --no-whole-archive " \
@@ -145,12 +145,12 @@ @@ see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
#define LIBTSAN_EARLY_SPEC "%{!shared:libtsan_preinit%O%s} " \
    "%{static-libtsan:%{!shared:" \
    LD_STATIC_OPTION " --whole-archive -ltsan --no-whole-archive " \
- LD_DYNAMIC_OPTION "}%{!static-libtsan:-ltsan}"
+ LD_DYNAMIC_OPTION "}%{!static-libtsan:%{!fuse-ld=gold:--push-state} --no-as-needed -ltsan %{fuse-ld=gold:--as-needed;--pop-state}}"
#undef LIBLSAN_EARLY_SPEC
#define LIBLSAN_EARLY_SPEC "%{!shared:liblsan_preinit%O%s} " \
    "%{static-liblsan:%{!shared:" \
    LD_STATIC_OPTION " --whole-archive -llsan --no-whole-archive " \
- LD_DYNAMIC_OPTION "}%{!static-liblsan:-llsan}"
+ LD_DYNAMIC_OPTION "}%{!static-liblsan:%{!fuse-ld=gold:--push-state} --no-as-needed -llsan %{fuse-ld=gold:--as-needed;--pop-state}}"
#endif

#undef TARGET_F951_OPTIONS
diff --git a/gcc/config/i386/gnu-user.h b/gcc/config/i386/gnu-user.h
index a23e7ab3eb7..12ac8cb93a9 100644
--- a/gcc/config/i386/gnu-user.h
+++ b/gcc/config/i386/gnu-user.h

```

```

@@ -68,7 +68,7 @@ along with GCC; see the file COPYING3. If not see
{ "link_emulation", GNU_USER_LINK_EMULATION },\
{ "dynamic_linker", GNU_USER_DYNAMIC_LINKER }

#define GNU_USER_TARGET_LINK_SPEC "-m %(link_emulation) %{shared:-shared} \
#define GNU_USER_TARGET_LINK_SPEC "-m %(link_emulation) --as-needed %{shared:-shared} \
%{!shared: \
%{!static: \
%{!static-pie: \
diff --git a/gcc/config/i386/gnu-user64.h b/gcc/config/i386/gnu-user64.h
index f3e25b1412a..712b0f1c30e 100644
--- a/gcc/config/i386/gnu-user64.h
+++ b/gcc/config/i386/gnu-user64.h
@@ -56,6 +56,7 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
    "%{ " SPEC_64 ":-m " GNU_USER_LINK_EMULATION64 " } \
    "%{ " SPEC_32 ":-m " GNU_USER_LINK_EMULATION32
"} \
    "%{ " SPEC_X32 ":-m " GNU_USER_LINK_EMULATIONX32 " } \
+ --as-needed \
%{shared:-shared} \
%{!shared: \
%{!static: \
diff --git a/gcc/config/ia64/linux.h b/gcc/config/ia64/linux.h
index ac40c3dfd3f..6e19e25c35a 100644
--- a/gcc/config/ia64/linux.h
+++ b/gcc/config/ia64/linux.h
@@ -58,7 +58,7 @@ do { \
#define GLIBC_DYNAMIC_LINKER "/lib/ld-linux-ia64.so.2"

#undef LINK_SPEC
#define LINK_SPEC "\
#define LINK_SPEC " --as-needed \
%{shared:-shared} \
%{!shared: \
%{!static: \
diff --git a/gcc/config/mips/gnu-user.h b/gcc/config/mips/gnu-user.h
index a390bcece83..be0ee289367 100644
--- a/gcc/config/mips/gnu-user.h
+++ b/gcc/config/mips/gnu-user.h
@@ -55,6 +55,7 @@ along with GCC; see the file COPYING3. If not see
#undef GNU_USER_TARGET_LINK_SPEC
#define GNU_USER_TARGET_LINK_SPEC "\
%{G*} %{EB} %{EL} %{mips*} %{shared} \
+ -as-needed \
%{!shared: \
%{!static: \
%{rdynamic:-export-dynamic} \
diff --git a/gcc/config/riscv/linux.h

```

```

b/gcc/config/riscv/linux.h
index fce5b896e6e..ee29979dd34 100644
--- a/gcc/config/riscv/linux.h
+++ b/gcc/config/riscv/linux.h
@@ -58,6 +58,7 @@ along with GCC; see the file COPYING3. If not see
    "%{mabi=ilp32:_ilp32}"

#define LINK_SPEC "\
+-as-needed \
-melf" XLEN_SPEC DEFAULT_ENDIAN_SPEC "riscv" LD_EMUL_SUFFIX " \
%{mno-relax:--no-relax} \
%{mbig-endian:-EB} \
diff --git a/gcc/config/rs6000/linux64.h b/gcc/config/rs6000/linux64.h
index e3f2cd254f6..43499ed29cf 100644
--- a/gcc/config/rs6000/linux64.h
+++ b/gcc/config/rs6000/linux64.h
@@ -374,13 +374,13 @@ extern int dot_symbols;
    " -m elf64ppc")
#endif

-#define LINK_OS_LINUX_SPEC32 LINK_OS_LINUX_EMUL32 " %{!shared: %{!static: \
+#define LINK_OS_LINUX_SPEC32 LINK_OS_LINUX_EMUL32 " --as-needed %{!shared: %{!static: \
%{!static-pie: \
    %{rdynamic:-export-dynamic} \
    -dynamic-linker " GNU_USER_DYNAMIC_LINKER32 "}} \
%(link_os_extra_spec32)"

-#define LINK_OS_LINUX_SPEC64 LINK_OS_LINUX_EMUL64
" %{!shared: %{!static: \
+#define LINK_OS_LINUX_SPEC64 LINK_OS_LINUX_EMUL64 " --as-needed %{!shared: %{!static: \
%{!static-pie: \
    %{rdynamic:-export-dynamic} \
    -dynamic-linker " GNU_USER_DYNAMIC_LINKER64 "}} \
diff --git a/gcc/config/rs6000/sysv4.h b/gcc/config/rs6000/sysv4.h
index 510abe169c5..3c1f3a8ec5d 100644
--- a/gcc/config/rs6000/sysv4.h
+++ b/gcc/config/rs6000/sysv4.h
@@ -789,7 +789,7 @@ GNU_USER_TARGET_CC1_SPEC
#define GNU_USER_DYNAMIC_LINKER GLIBC_DYNAMIC_LINKER
#endif

-#define LINK_OS_LINUX_SPEC "-m elf32ppclinux %{!shared: %{!static: \
+#define LINK_OS_LINUX_SPEC "-m elf32ppclinux --as-needed %{!shared: %{!static: \
%{rdynamic:-export-dynamic} \
-dynamic-linker " GNU_USER_DYNAMIC_LINKER "}}"

diff --git a/gcc/config/s390/linux.h b/gcc/config/s390/linux.h
index daa48fdcf2b..2fcfc5d770f 100644

```

```

--- a/gcc/config/s390/linux.h
+++ b/gcc/config/s390/linux.h
@@ -82,7 +82,7 @@ along with GCC; see the file COPYING3. If not see

#undef LINK_SPEC
#define
LINK_SPEC \
- "%{m31:-m elf_s390}%{m64:-m elf64_s390} \
+ "%{m31:-m elf_s390}%{m64:-m elf64_s390} --as-needed \
  %{shared:-shared} \
  %{!shared: \
    %{static:-static} \
diff --git a/gcc/config/sparc/linux.h b/gcc/config/sparc/linux.h
index 2550d7ee8f0..7596d0b2757 100644
--- a/gcc/config/sparc/linux.h
+++ b/gcc/config/sparc/linux.h
@@ -81,7 +81,7 @@ extern const char *host_detect_local_cpu (int argc, const char **argv);
#define GLIBC_DYNAMIC_LINKER "/lib/ld-linux.so.2"

#undef LINK_SPEC
-#define LINK_SPEC "-m elf32_sparc %{shared:-shared} \
+#define LINK_SPEC "-m elf32_sparc --as-needed %{shared:-shared} \
  %{!mno-relax:%{!r:-relax}} \
  %{!shared: \
    %{!static: \
diff --git a/gcc/gcc.c b/gcc/gcc.c
index faf9ce76b3d..1ad5da6d769 100644
--- a/gcc/gcc.c
+++ b/gcc/gcc.c
@@ -737,8 +737,11 @@
@@ -737,8 +737,11 @@ proper position among the other output files. */
#ifdef LIBASAN_EARLY_SPEC
#define LIBASAN_SPEC STATIC_LIBASAN_LIBS
#elif defined(HAVE_LD_STATIC_DYNAMIC)
-#define LIBASAN_SPEC
+ "%{static-libasan:" LD_STATIC_OPTION \
-   " } -lasan %{static-libasan:" LD_DYNAMIC_OPTION "}" \
+#define LIBASAN_SPEC "%{static-libasan:" LD_STATIC_OPTION "}" \
+   " %{!static-libasan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+   " -lasan " \
+   " %{static-libasan:" LD_DYNAMIC_OPTION "}" \
+   " %{!static-libasan:%{fuse-ld=gold:--as-needed;:--pop-state}}}" \
  STATIC_LIBASAN_LIBS
#else
#define LIBASAN_SPEC "-lasan" STATIC_LIBASAN_LIBS
@@ -773,8 +773,11 @@
@@ -773,8 +773,11 @@ proper position among the other output files. */
#ifdef LIBTSAN_EARLY_SPEC
#define LIBTSAN_SPEC STATIC_LIBTSAN_LIBS
#elif defined(HAVE_LD_STATIC_DYNAMIC)

```

```

-#define LIBTSAN_SPEC "%{static-libtsan:" LD_STATIC_OPTION \
-    " } -ltsan %{static-libtsan:" LD_DYNAMIC_OPTION "}" \
+#define LIBTSAN_SPEC "%{static-libtsan:" LD_STATIC_OPTION "}" \
+    "%{!static-libtsan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+    "-ltsan " \
+    "%{static-libtsan:" LD_DYNAMIC_OPTION "}" \
+
+    "%{!static-libtsan:%{fuse-ld=gold:--as-needed;--pop-state} }" \
+    STATIC_LIBTSAN_LIBS
#else
#define LIBTSAN_SPEC "-ltsan" STATIC_LIBTSAN_LIBS
@@ -791,8 +797,11 @@ proper position among the other output files. */
#ifdef LIBLSAN_EARLY_SPEC
#define LIBLSAN_SPEC STATIC_LIBLSAN_LIBS
#elif defined(HAVE_LD_STATIC_DYNAMIC)
-#define LIBLSAN_SPEC "%{static-liblsan:" LD_STATIC_OPTION \
-    " } -llsan %{static-liblsan:" LD_DYNAMIC_OPTION "}" \
+#define LIBLSAN_SPEC "%{static-liblsan:" LD_STATIC_OPTION "}" \
+    "%{!static-liblsan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+    "-llsan " \
+    "%{static-liblsan:" LD_DYNAMIC_OPTION "}" \
+    "%{!static-liblsan:%{fuse-ld=gold:--as-needed;--pop-state} }" \
+    STATIC_LIBLSAN_LIBS
#else
#define LIBLSAN_SPEC "-llsan" STATIC_LIBLSAN_LIBS
@@ -807,8 +816,11 @@ proper position among the other output files. */
#define STATIC_LIBUBSAN_LIBS \
    "%{static-libubsan|static:~%include(libsanitizer.spec)%link_libubsan}"
#ifdef HAVE_LD_STATIC_DYNAMIC
-#define LIBUBSAN_SPEC "%{static-libubsan:" LD_STATIC_OPTION \
-    " } -lubsan %{static-libubsan:" LD_DYNAMIC_OPTION "}" \
+#define LIBUBSAN_SPEC "%{static-libubsan:" LD_STATIC_OPTION "}" \
+    "%{!static-libubsan:%{!fuse-ld=gold:--push-state }--no-as-needed}" \
+    "-lubsan " \
+    "%{static-libubsan:" LD_DYNAMIC_OPTION "}" \
+    "%{!static-libubsan:%{fuse-ld=gold:--as-needed;--pop-state} }" \
+    STATIC_LIBUBSAN_LIBS
#else
#define LIBUBSAN_SPEC "-lubsan" STATIC_LIBUBSAN_LIBS
--
2.35.1

```

Found in path(s):

* /gcc-11-2-1-tar-gz/0005-On-linux-targets-pass-as-needed-by-default-to-the-li.patch

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

From d7064ab25a561bb99c3d0b35663154656013aed2 Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 07:06:30 +0000

Subject: [PATCH] ada: libgnarl compatibility for musl

gcc/ada/libgnarl/s-osinte__linux.ads | 11 -----

gcc/ada/libgnarl/s-taprop__linux.adb | 53 ++-----

2 files changed, 3 insertions(+), 61 deletions(-)

diff --git a/gcc/ada/libgnarl/s-osinte__linux.ads b/gcc/ada/libgnarl/s-osinte__linux.ads

index 2272f83d68d..1d78456544a 100644

--- a/gcc/ada/libgnarl/s-osinte__linux.ads

+++ b/gcc/ada/libgnarl/s-osinte__linux.ads

@@ -401,12 +401,6 @@ package System.OS_Interface is

PTHREAD_RWLOCK_PREFER_WRITER_NP : constant := 1;

PTHREAD_RWLOCK_PREFER_WRITER_NONRECURSIVE_NP : constant := 2;

- function pthread_rwlockattr_setkind_np

- (attr : access pthread_rwlockattr_t;

- pref : int) return int;

- pragma Import

-

(C, pthread_rwlockattr_setkind_np, "pthread_rwlockattr_setkind_np");

-

function pthread_rwlock_init

(mutex : access pthread_rwlock_t;

attr : access pthread_rwlockattr_t) return int;

@@ -468,11 +462,6 @@ package System.OS_Interface is

protocol : int) return int;

pragma Import (C, pthread_mutexattr_setprotocol);

- function pthread_mutexattr_setprioceiling

- (attr : access pthread_mutexattr_t;

- prioceiling : int) return int;

- pragma Import (C, pthread_mutexattr_setprioceiling);

-

type struct_sched_param is record

sched_priority : int; -- scheduling priority

end record;

diff --git a/gcc/ada/libgnarl/s-taprop__linux.adb b/gcc/ada/libgnarl/s-taprop__linux.adb

index 757a6cdfdad..82df94f6a00 100644

--- a/gcc/ada/libgnarl/s-taprop__linux.adb

+++ b/gcc/ada/libgnarl/s-taprop__linux.adb

@@ -198,9 +198,6 @@ package body System.Task_Primitives.Operations is

pragma Import

(C, GNAT_pthread_condattr_setup, "__gnat_pthread_condattr_setup");

- function GNAT_has_cap_sys_nice return C.int;

- pragma Import

```

- (C, GNAT_has_cap_sys_nice, "__gnat_has_cap_sys_nice");
-- We do not have pragma Linker_Options ("-lcap"); here, because this
-- library is not present on many Linux systems. 'libcap' is the Linux
-- "capabilities" library, called by __gnat_has_cap_sys_nice.
@@ -210,38 +207,6 @@ package body System.Task_Primitives.Operations is
-- Convert Ada priority to Linux priority. Priorities are 1 .. 99 on
-- GNU/Linux, so we map 0 .. 98 to 1 .. 99.

- function Get_Ceiling_Support return Boolean;
- -- Get the value of the Ceiling_Support constant (see below).
- -- Note well: If this function or related code is modified, it should be
- -- tested by hand, because automated testing doesn't exercise it.
-
- -----
- -- Get_Ceiling_Support --
- -----
-
- function Get_Ceiling_Support return Boolean is
-   Ceiling_Support : Boolean
- := False;
- begin
-   if Locking_Policy /= 'C' then
-     return False;
-   end if;
-
-   declare
-     function geteuid return Integer;
-     pragma Import (C, geteuid, "geteuid");
-     Superuser : constant Boolean := geteuid = 0;
-     Has_Cap : constant C.int := GNAT_has_cap_sys_nice;
-     pragma Assert (Has_Cap in 0 | 1);
-   begin
-     Ceiling_Support := Superuser or else Has_Cap = 1;
-   end;
-
-   return Ceiling_Support;
- end Get_Ceiling_Support;
-
- pragma Warnings (Off, "non-preelaborable call not allowed*");
- Ceiling_Support : constant Boolean := Get_Ceiling_Support;
- pragma Warnings (On, "non-preelaborable call not allowed*");
-- True if the locking policy is Ceiling_Locking, and the current process
-- has permission to use this policy. The process has permission if it is
-- running as 'root', or if the capability was set by the setcap command,
@@ -344,7 +309,9 @@ package body System.Task_Primitives.Operations
is
-- Init_Mutex --
-----

```

```

+ pragma Warnings (Off, "formal parameter * is not referenced");
function Init_Mutex (L : RTS_Lock_Ptr; Prio : Any_Priority) return C.int is
+ pragma Warnings (On, "formal parameter * is not referenced");
  Mutex_Attr : aliased pthread_mutexattr_t;
  Result, Result_2 : C.int;

```

```

@@ -356,16 +323,7 @@ package body System.Task_Primitives.Operations is
    return Result;
  end if;

```

```

-   if Ceiling_Support then
-     Result := pthread_mutexattr_setprotocol
-       (Mutex_Attr'Access, PTHREAD_PRIO_PROTECT);
-     pragma Assert (Result = 0);
-
-     Result := pthread_mutexattr_setprioceiling
-       (Mutex_Attr'Access, Prio_To_Linux_Prio (Prio));
-     pragma Assert (Result = 0);
-
-   elsif Locking_Policy = 'T' then
+   if Locking_Policy = 'T' then
      Result := pthread_mutexattr_setprotocol
        (Mutex_Attr'Access, PTHREAD_PRIO_INHERIT);
      pragma Assert
        (Result = 0);

```

```

@@ -405,11 +363,6 @@ package body System.Task_Primitives.Operations is
    Result := pthread_rwlockattr_init (RWlock_Attr'Access);
    pragma Assert (Result = 0);

```

```

-     Result := pthread_rwlockattr_setkind_np
-       (RWlock_Attr'Access,
-        PTHREAD_RWLOCK_PREFER_WRITER_NONRECURSIVE_NP);
-     pragma Assert (Result = 0);
-
-     Result := pthread_rwlock_init (L.RW'Access, RWlock_Attr'Access);
-
-     pragma Assert (Result in 0 | ENOMEM);
--

```

2.35.1

Found in path(s):

* /gcc-11-2-1-tar-gz/0031-ada-libgnarl-compatibility-for-musl.patch

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

From 18d44a7f8d801cc6926a73e2dda2f0ce859dc561 Mon Sep 17 00:00:00 2001

From: Ariadne Conill <ariadne@dereferenced.org>

Date: Fri, 21 Aug 2020 07:01:06 +0000

Subject: [PATCH] add fortify-headers paths

gcc/config/linux.h | 2 ++
1 file changed, 2 insertions(+)

diff --git a/gcc/config/linux.h b/gcc/config/linux.h
index 4e1db60fced..7fcf402b416 100644

--- a/gcc/config/linux.h
+++ b/gcc/config/linux.h

@@ -167,6 +167,8 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see

```
#ifndef NATIVE_SYSTEM_HEADER_DIR
#define INCLUDE_DEFAULTS_MUSL_NATIVE \
+ { NATIVE_SYSTEM_HEADER_DIR "/fortify", 0, 0, 0, 1, 2 }, \
+ { NATIVE_SYSTEM_HEADER_DIR "/fortify", 0, 0, 0, 1, 0 }, \
  { NATIVE_SYSTEM_HEADER_DIR, 0, 0, 0, 1, 2 }, \
  { NATIVE_SYSTEM_HEADER_DIR, 0, 0, 0, 1, 0 },
#else
--
2.35.1
```

Found in path(s):

* /gcc-11-2-1-tar-gz/0021-add-fortify-headers-paths.patch

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

From 7b5108375bb67532af30d1e7f553ac5f3b1096fe Mon Sep 17 00:00:00 2001

From: Jakub Jelinek <jakub@redhat.com>

Date: Mon, 24 Jan 2022 11:13:39 +0100

Subject: [PATCH] properly disable -fsplit-stack on non-glibc targets

[PR104170]

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

On Sat, Jan 22, 2022 at 10:32:21AM +0100, Martin Liška wrote:

> I've just noticed the patch broke a few cross compilers:

>

> s390x-ibm-tpf:

>

> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/s390/s390-common.cc: In function
> 'bool s390_supports_split_stack(bool, gcc_options*)':

> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/s390/s390-common.cc:126:13: error:
> 'struct gcc_options' has no member named 'x_linux_libc'

> 126 | if (opts->x_linux_libc == LIBC_GLIBC)

> | ^~~~~~

>

> i686-kopensolaris-gnu, i686-symbolics-gnu

```
>
> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/i386/i386-common.cc:
In function 'bool ix86_supports_split_stack(bool, gcc_options*)':
> /home/marxin/buildworker/zen2-cross-compilers/build/gcc/common/config/i386/i386-common.cc:1721:13: error:
'struct gcc_options' has no member named 'x_linux_libc'
> 1721 |   if (opts->x_linux_libc != LIBC_GLIBC)
>       |           ^~~~~~
> make[1]: *** [Makefile:2418: i386-common.o] Error 1
>
> Can you please take a look? Btw. do you have a bugzilla account?
```

I bet instead of `opts->x_linux_libc != LIBC_GLIBC` it needs to use `#ifdef OPTION_GLIBC`

```
if (!OPTION_GLIBC)
#endif
```

or so. I think the first committed patch actually used that but used it in `#if` directive, which is wrong because it is something that needs to be evaluated at runtime.

That doesn't work well either, because the `*supports_split_stack` hooks have `opts` argument and `OPTION_GLIBC` doesn't take that.

So, here is a patch that introduces `OPTION_*_P` macros that take `opts` as an argument and redefines `OPTION_*` using those (similarly to how the option scripts create `TARGET_*_P` and `TARGET_*` macros).

2022-01-24 Jakub Jelinek <jakub@redhat.com>

```
PR bootstrap/104170
* config/linux.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/alpha/linux.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/rs6000/linux.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/rs6000/linux64.h (OPTION_GLIBC_P, OPTION_UCLIBC_P,
OPTION_BIONIC_P, OPTION_MUSL_P): Define.
(OPTION_GLIBC, OPTION_UCLIBC, OPTION_BIONIC, OPTION_MUSL): Redefine
using OPTION_*_P macros.
* config/fuchsia.h (OPTION_MUSL_P):
```

Redefine.

* config/glibc-stdint.h (OPTION_MUSL_P): Define if not defined.

* common/config/s390/s390-common.cc (s390_supports_split_stack): Re-add ATTRIBUTE_UNUSED to opts parameter. If OPTION_GLIBC_P is defined, use OPTION_GLIBC_P (opts) as condition, otherwise assume if (false).

* common/config/i386/i386-common.cc (ix86_supports_split_stack): If OPTION_GLIBC_P is defined use !OPTION_GLIBC_P (opts) as condition, otherwise assume if (true).

```
gcc/common/config/i386/i386-common.c | 4 +---
gcc/common/config/s390/s390-common.c | 6 +++++--
gcc/config/alpha/linux.h             | 25 ++++++++-----
gcc/config/fuchsia.h                 | 2 ++
gcc/config/glibc-stdint.h            | 3 +++
gcc/config/linux.h                   | 25 ++++++++-----
gcc/config/rs6000/linux.h             | 25 ++++++++-----
gcc/config/rs6000/linux64.h          | 25 ++++++++-----
8 files changed, 71 insertions(+), 44 deletions(-)
```

diff --git

a/gcc/common/config/i386/i386-common.c b/gcc/common/config/i386/i386-common.c

index a3b5258e828..864e68ab985 100644

--- a/gcc/common/config/i386/i386-common.c

+++ b/gcc/common/config/i386/i386-common.c

@@ -1699,8 +1699,8 @@ static bool

ix86_supports_split_stack (bool report,

struct gcc_options *opts ATTRIBUTE_UNUSED)

{

 #ifndef TARGET_THREAD_SPLIT_STACK_OFFSET

 - if (opts->x_linux_libc != LIBC_GLIBC)

 + #if defined(TARGET_THREAD_SPLIT_STACK_OFFSET) && defined(OPTION_GLIBC_P)

 + if (!OPTION_GLIBC_P (opts))

 #endif

 {

 if (report)

diff --git a/gcc/common/config/s390/s390-common.c b/gcc/common/config/s390/s390-common.c

index 8c1e590322d..11116f131cb 100644

--- a/gcc/common/config/s390/s390-common.c

+++ b/gcc/common/config/s390/s390-common.c

@@ -121,10 +121,12 @@ s390_handle_option (struct gcc_options *opts ATTRIBUTE_UNUSED,

static bool

s390_supports_split_stack (bool report,

- struct gcc_options *opts)

+ struct gcc_options *opts ATTRIBUTE_UNUSED)

{

- if (opts->x_linux_libc

```

== LIBC_GLIBC)
#ifdef OPTION_GLIBC_P
+ if (OPTION_GLIBC_P (opts))
    return true;
#endif

if (report)
    error ("%<-fsplit-stack%> currently only supported on GNU/Linux");
diff --git a/gcc/config/alpha/linux.h b/gcc/config/alpha/linux.h
index bde7fb0d292..812ec8ecb31 100644
--- a/gcc/config/alpha/linux.h
+++ b/gcc/config/alpha/linux.h
@@ -58,18 +58,23 @@ along with GCC; see the file COPYING3.  If not see
#define WCHAR_TYPE "int"

#ifdef SINGLE_LIBC
#define OPTION_GLIBC (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
#define OPTION_GLIBC
    (linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (linux_libc == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif

#define OPTION_GLIBC OPTION_GLIBC_P (&global_options)
#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
#undef OPTION_MUSL
#define OPTION_MUSL OPTION_MUSL_P (&global_options)

/* Determine what functions are present at the runtime;
   this includes full c99 runtime and sincos. */
diff --git a/gcc/config/fuchsia.h b/gcc/config/fuchsia.h

```

```

index 54602dc300d..47c0dfd8b81 100644
--- a/gcc/config/fuchsia.h
+++ b/gcc/config/fuchsia.h
@@
-52,6 +52,8 @@ along with GCC; see the file COPYING3. If not see
/* We are using MUSL as our libc. */
#undef OPTION_MUSL
#define OPTION_MUSL 1
+#undef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) 1

#ifndef TARGET_SUB_OS_CPP_BUILTINS
#define TARGET_SUB_OS_CPP_BUILTINS()
diff --git a/gcc/config/glibc-stdint.h b/gcc/config/glibc-stdint.h
index c8d7ba18d1c..f095197514f 100644
--- a/gcc/config/glibc-stdint.h
+++ b/gcc/config/glibc-stdint.h
@@ -27,6 +27,9 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
#ifndef OPTION_MUSL
#define OPTION_MUSL 0
#endif
+#ifndef OPTION_MUSL_P
+#define OPTION_MUSL_P(opts) 0
+#endif

#define SIG_ATOMIC_TYPE "int"

diff --git a/gcc/config/linux.h b/gcc/config/linux.h
index 7fcf402b416..ab62a1741f7 100644
--- a/gcc/config/linux.h
+++ b/gcc/config/linux.h
@@ -29,18 +29,23 @@ see the files COPYING3 and COPYING.RUNTIME respectively. If not, see

/* C libraries supported on Linux. */
#ifdef SINGLE_LIBC
-#define OPTION_GLIBC
-  (DEFAULT_LIBC == LIBC_GLIBC)
-#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
-#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
-#undef OPTION_MUSL
-#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
-#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
-#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
-#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
-#undef OPTION_MUSL_P
-#define OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
-#else
-#define OPTION_GLIBC (linux_libc == LIBC_GLIBC)

```



```

#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (linux_libc == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif
#define
OPTION_GLIBC OPTION_GLIBC_P (&global_options)
#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
#undef OPTION_MUSL
#define OPTION_MUSL OPTION_MUSL_P (&global_options)

#define GNU_USER_TARGET_OS_CPP_BUILTINS() \
do { \
diff --git a/gcc/config/rs6000/linux.h b/gcc/config/rs6000/linux.h
index 47c9d9ac0b6..be04462d357 100644
--- a/gcc/config/rs6000/linux.h
+++ b/gcc/config/rs6000/linux.h
@@ -27,18 +27,23 @@
#define NO_PROFILE_COUNTERS 1

#ifdef SINGLE_LIBC
#define OPTION_GLIBC (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define
OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
#define OPTION_GLIBC (linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (linux_libc == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL_P

```

```

#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif

#define OPTION_GLIBC OPTION_GLIBC_P (&global_options)
#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
#undef OPTION_MUSL
#define OPTION_MUSL OPTION_MUSL_P (&global_options)

/* Determine what functions are present at the runtime;
   this includes full c99 runtime and sincos. */
diff --git a/gcc/config/rs6000/linux64.h b/gcc/config/rs6000/linux64.h
index
43499ed29cf..1d73a09a476 100644
--- a/gcc/config/rs6000/linux64.h
+++ b/gcc/config/rs6000/linux64.h
@@ -267,18 +267,23 @@ extern int dot_symbols;
#define OS_MISSING_POWERPC64 !TARGET_64BIT

#ifdef SINGLE_LIBC
#define OPTION_GLIBC (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (DEFAULT_LIBC == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) (DEFAULT_LIBC == LIBC_GLIBC)
#define OPTION_UCLIBC_P(opts) (DEFAULT_LIBC == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) (DEFAULT_LIBC == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) (DEFAULT_LIBC == LIBC_MUSL)
#else
#define OPTION_GLIBC (linux_libc == LIBC_GLIBC)
#define OPTION_UCLIBC (linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC (linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL
#define OPTION_MUSL (linux_libc == LIBC_MUSL)
#define OPTION_GLIBC_P(opts) ((opts)->x_linux_libc == LIBC_GLIBC)
#define
OPTION_UCLIBC_P(opts) ((opts)->x_linux_libc == LIBC_UCLIBC)
#define OPTION_BIONIC_P(opts) ((opts)->x_linux_libc == LIBC_BIONIC)
#undef OPTION_MUSL_P
#define OPTION_MUSL_P(opts) ((opts)->x_linux_libc == LIBC_MUSL)
#endif

#define OPTION_GLIBC OPTION_GLIBC_P (&global_options)
#define OPTION_UCLIBC OPTION_UCLIBC_P (&global_options)
#define OPTION_BIONIC OPTION_BIONIC_P (&global_options)
#undef OPTION_MUSL
#define OPTION_MUSL OPTION_MUSL_P (&global_options)

```

```
/* Determine what functions are present at the runtime;
   this includes full c99 runtime and sincos. */
--
2.35.1
```

Found in path(s):

* /gcc-11-2-1-tar-gz/0049-properly-disable-fsplit-stack-on-non-glibc-targets-P.patch

1.276 drill 1.8.1-r0

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1.277 zlib 1.2.12-r3

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1.278 nuid 1.0.1

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1.279 curl 7.83.1-r3

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1.280 popt 1.18-r0

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1.281 libidn 2.3.2-r2

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1.282 grpc-go 1.29.1

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1.283 gopkg.in/urfave/cli.v1 1.20.0

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@page

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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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

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1.285 libc6-compat 1.2.3-r0

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1.286 urllib3 1.26.6-1.ph1

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1.287 errors 0.9.1

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1.288 coreos-semver 0.3.0

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1.289 pam 1.5.2-r0

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1.290 klauspost-compress 1.13.6

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

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DRuntime: Runtime Library for the D Programming Language

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1.292 sh 1.13.1

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1.293 xxhash 2.1.2

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1.294 golang-protobuf-extensions 1.0.1

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1.297 nkeys 0.3.0

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1.298 x-term 0.0.0-20210927222741-03fcf44c2211

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1.300 wget 1.21.3-r0

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1.301 spew 1.1.1

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1.302 sqlite 3.38.5-r0

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1.303 zap 1.19.1

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1.304 libcap 2.64-r0

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1.306 ca-certificates 20220614-r0

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1.307 jackc-pgpassfile 1.0.0

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1.308 contextlib2 21.6.0

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=====

contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes

3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011		
PSF	yes			
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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Python/Jython

1.309 etcd 3.5.4

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1.310 x-crypto 0.0.0-20220926161630-eccd6366d1be

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1.311 pq 1.10.4

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```
//go:build go1.10
// +build go1.10
```

```

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
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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