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Files: debian/*

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1.2 shadow 4.5-1.1

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1.4 xmlunit-core 2.3.0

1.5 attr 2.4.48-4

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1.6 bash 5.0-4

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1.8 cdebconf 0.249

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1.9 adduser 3.118

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Written by: Philip Hazel
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1.11 coreutils 8.30-3

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1.12 diffutils 3.7-3

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ASM: a very small and fast Java bytecode manipulation framework

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1.16 go-sockaddr 1.0.2

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1.17 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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1.19 libidn 2.2.0-2

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include/bsd/stringlist.h

man/fmtcheck.3bsd

man/humanize_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

src/humanize_number.c

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man/byteorder.3bsd

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man/flopen.3bsd

man/getpeereid.3bsd

man/pidfile.3bsd

src/expand_number.c

src/hash/sha512.h

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man/readpassphrase.3bsd
man/strncpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.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
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1.21 patch 2.7.6-6

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1.24 scowl 2018.04.16-1

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

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In addition, mere aggregation of another work not based on the Library

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

^L

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the

complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a

"work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

^L

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

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

Sections above.

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

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^L

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To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source file to most

effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> > directly

> > and see if he wants to relicense his code as LGPL... but at this

> > point,

> > it was enough to just get it consistent and documented as to what

> > it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
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> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine

>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)

Received: from

[82.68.43.14] (helo=[192.168.1.3])

by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000

Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.26 make 4.2.1-1.2

1.26.1 Available under license :

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Version 2, June 1991

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

Preamble

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free

library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference

between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

it.

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

In addition,

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

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

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

This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

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

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

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

of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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

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

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

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

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply,

and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Each

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the
names:

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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When we speak of free software, we are referring to
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have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

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

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

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

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

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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

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1. Source Code.

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

form of a work.

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

The

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

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered

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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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@c Local Variables:  
@c ispell-local-pdict: "ispell-dict"  
@c End:
```

1.27 ncurses 6.1+20181013-2+deb10u2

1.27.1 Available under license :

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```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.28 sound-theme-freedesktop 0.8-2ubuntu1

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audio-channel-front-center

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audio-channel-front-right

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audio-channel-rear-left

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audio-channel-side-left

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device-removed

power-plug

power-unplug

network-connectivity-established

network-connectivity-lost

message

dialog-information

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```

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1.30 Isof 4.91+dfsg-1

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1.32 gpm 1.20.7-5

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Upstream-Contact: gpm@lists.linux.it

Source: <https://nico.schottelius.org/software/gpm/archives/>

Files: *

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1.33 mpclib 1.1.0-1

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Version 3, 29 June 2007

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1.36 e2fsprogs 1.44.5-1+deb10u3

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

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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
+ Copyright (C) Andrew Tridgell      1999-2005
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul `Rusty' Russell  2000
```

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Gadi Oxman, August 1995

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```
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```

```
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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

```
Ty Coon, President of Vice
```

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

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```

#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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1.37 go-multierror 1.1.0

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1.39 mpdecimal 2.4.2-3

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```
# COPYING.other                -*- org -*-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.42 d-conf 0.36.0-1

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1.43 rtmpdump 2.4+20151223.gitfa8646d.1-2build1

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```
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```

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.44 libyam! 0.2.2-1

1.44.1 Available under license :

```
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```

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1.45 e2fsprogs 1.45.5-2ubuntu1

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

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

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2. This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

all:: image

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)  
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)  
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS_SHLIB) $(OBJS))  
$(MV) pic/$(BSD_LIB) .  
$(RM) -f ../$(BSD_LIB)  
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \  
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)  
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"  
@$(INSTALL_PROGRAM) $(BSD_LIB) \  
$(DESTDIR)$BSDLIB_INSTALL_DIR)/$(BSD_LIB)  
@-$(LD_CONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Version 2, June 1991

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```

```
Ty Coon, President of Vice
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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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That's all there is to it!

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

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.46 perl 5.30.0-9build1

1.46.1 Available under license :

```
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Files-Excluded-regen-configure: bin/*
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was initially debianized by Brendan O'Dea <bod@debian.org>
on Thu, 17 Aug 2000 16:10:54 +1000. The packaging has since been modified
by various others, including Dominic Hargreaves <dom@earth.li> and Niko
Tyni <ntyni@debian.org>.
.
Upstream Authors:
.
Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).
.
Last checked against: Perl 5.30.0

Files: *
```

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regex.c

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inline.h

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Files:

dist/autouse/*

dist/base/*

dist/constant/*

dist/Devel-SelfStubber/*

dist/Dumpvalue/*

dist/Env/*

cpan/ExtUtils-Manifest/*

dist/I18N-Collate/*

dist/Safe/*

ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
ext/POSIX/*
ext/re/*
cpan/Socket/*
ext/Sys-Hostname/*
ext/Tie-Hash-NamedCapture/*
ext/Tie-Memoize/*
ext/VMS-DCLsym/*
ext/VMS-Stdio/*

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cpan/CPAN/scripts/cpan

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Files:

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_0.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_1.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_3.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_4.pod

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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po

cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po

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cpan/podlators/t/data/basic.clr

cpan/podlators/t/data/basic.man

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cpan/podlators/t/docs/synopsis.t

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cpan/podlators/t/lib/Test/RRA/Config.pm

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cpan/bignum/*

cpan/Tie-RefHash/*

cpan/Win32API-File/*

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.50 libedit 3.1-20191231-1

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1.51 lvm2 2.03.07-1ubuntu1

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1.54 mawk 1.3.4.20200120-2

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1.56 libcanberra 0.30-7ubuntu1

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1.57 libogg 1.3.4-0ubuntu1

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id 1QsTXr-0004MO-Ek

for ron@debian.org; Sun, 14 Aug 2011 05:47:35 +0000

In-Reply-To: <20110813065417.GV2324@audi.shelbyville.oz>

References: <20110813065417.GV2324@audi.shelbyville.oz>

From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>

Date: Sun, 14 Aug 2011 15:47:09 +1000

Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>

Subject: Re: Distributing the libogg RFCs in the Debian package

To: Ron <ron@debian.org>

Cc: Christopher Montgomery <monty@xiph.org>,

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1.58 findutils 4.7.0-1ubuntu1

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1.61 libcbor 0.6.0-Ubuntu1

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1.63 procps 3.3.16-1ubuntu2

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1.64 keyutils 1.6-6ubuntu1

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the

library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Version 2.1, February 1999

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

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use

it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them

with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

1.65 selinux 3.0-1build2

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1.66 grep 3.4-1

1.66.1 Available under license :

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Version 3, 29 June 2007

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

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

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

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

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the

extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

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

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

The

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

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

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

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

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1.67 icu 66.1-2ubuntu2

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

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

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

## Compiler switch to embed a runtime search path
LD_RPATH=
```

```

LD_RPATH_PRE= -Wl,-rpath,

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

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

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

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

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

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

## Versioned libraries rules

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

## Bind internal references

```

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

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

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

## End BSD-specific setup
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```

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```
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```

```
@vskip 20pt plus 1fil
```

```
@end macro
```

```
@macro copyrightstart{ }
```

```
@end macro
```

```
@macro copyrightend{ }
```

@end macro

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@comment node-name, next, previous, up

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GSS-API mechglue layer.

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@table

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.79 glibc 2.31-0ubuntu9

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1.81 shadow 4.8.1-1ubuntu5

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1.84 systemd 245.4-4ubuntu3.1

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```
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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus

Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each

version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  
<name of author>
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

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

Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

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

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

earlier work or a work "based on" the earlier work.

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

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

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

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

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;

section 10

makes it unnecessary.

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

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

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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

5. Conveying Modified Source Versions.

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

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This

License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

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1.98 pkg-config 0.29.1-Ubuntu4

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1.103 debianutils 4.8.6.1

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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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1.107 adduser 3.118ubuntu2

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rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

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1.109 debianutils 4.9.1

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1.113 sed 4.7-1

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The

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1.115 gnutls 3.6.13-2ubuntu1.2

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Version 3, 29 June 2007

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1.119 base-files 11ubuntu5

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The End

1.120 ncurses 6.2-0ubuntu2

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

This package is used for testing builds of ncurses.

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

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

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-- vile:txtmode fc=72

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1.121 libsepol 3.0-1

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Version 2.1, February 1999

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1.122 base-passwd 3.5.47

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```

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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```

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group.master

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1.123 libpkit 0.23.20-1build1

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1.124 bzip2 1.0.8-2

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1.125 libseccomp 2.4.3-1ubuntu3.20.04.2

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1.127 systemd 245.4-4ubuntu3.2

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1.129 open-ldap 2.4.49+dfsg-2ubuntu1.3

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1.130 glib 2.64.3-1~ubuntu20.04.1

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

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

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

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

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

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

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

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1.131 gobject-introspection 1.64.1-

1~ubuntu20.04.1

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In

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

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

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1.132 less 551-1ubuntu0.1

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Less License

Less

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1.133 libssh 0.9.3-2ubuntu2.1

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=====

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1.137 cdebconf 0.251ubuntu1

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CDebConf was initially written by Randolph Chung <tausq@debian.org>

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CDebConf includes ideas and code from:

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1.138 curl 7.68.0-1ubuntu2.2

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=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>)

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libssh2

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1.139 also 1.2.2-2.1ubuntu2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

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Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.140 cryptsetup 2.2.2-3ubuntu2.2

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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

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1.141 glibc 2.31-0ubuntu9.1

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1.142 zlib 1.2.11.dfsg-2ubuntu1.1

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.143 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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

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

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

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

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

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

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

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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The

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1.146 brotli 1.0.7-6ubuntu0.1

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1.147 python 3.8.5-1~20.04

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

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

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

All

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

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1.148 zlib 1.2.11.dfsg-2ubuntu1.2

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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jloup@gzip.org madler@alumni.caltech.edu

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*/

1.149 linux-libc-dev 5.4.0-48.52

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* <http://www.hypermall.com/>
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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- * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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text-utils/hexdump.c

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extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/refactor.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.7/Lib/lib2to3/pytree.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_repr.py
*
/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/pygram.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/pygram.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/patcomp.py
*
/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/pytree.py

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* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.7/Lib/lib2to3/pygram.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/fixer_base.py
*
/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_has_key.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/pygram.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_has_key.py
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/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_repr.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/pytree.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_apply.py
*
/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_apply.py
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Found in path(s):
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extensions-3.8.5/3.9/Lib/lib2to3/pgen2/grammar.py
```


extensions-3.8.5/3.9/Lib/lib2to3/pgen2/conv.py

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version.

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* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/cygwincompiler.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/command/bdist_msi.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/command/bdist_msi.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/command/bdist_wininst.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/cygwincompiler.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/command/bdist_wininst.py

*

/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/command/bdist_wininst.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/command/bdist_wininst.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/cygwincompiler.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/command/bdist_msi.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/cygwincompiler.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/command/bdist_msi.py

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A grammar to describe tree matching patterns.

Not shown here:

- 'TOKEN' stands for any token (leaf node)

- 'any' stands for any node (leaf or interior)

With 'any' we can still specify the sub-structure.

The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('| Alternative)*

Alternative: (Unit | NegatedUnit)+

```
Unit: [NAME '='] ( STRING [Repeater]
    | NAME [Details] [Repeater]
    | '(' Alternatives ')' [Repeater]
    | '[' Alternatives ']'
  )
```

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [, NUMBER]' }

Details: '<' Alternatives '>'

Found in path(s):

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*

/opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/PatternGrammar.txt

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('binary-only', None,

"cannot supply both '--source-only' and '--binary-only'")

'License: ' + self.distribution.get_license(),

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* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/command/bdist_rpm.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/command/bdist_rpm.py

* /opt/cola/permits/1111626314_1615241408.84/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/command/bdist_rpm.py

1.152 fcntl 1.0.0

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1.153 fiddle 1.0.0

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1.154 armon-go-metrics 0.3.1

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1.155 btree 1.0.0

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1.156 errors 0.8.1

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1.157 go-toml 1.2.0

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1.158 google-uuid 1.1.1

1.158.1 Available under license :

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1.159 libseccomp 2.3.3-4

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Version 2.1, February 1999

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Version 3, 29 June 2007

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1.162 pam 1.3.1-5

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```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.164 iconv 2.31

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Version 2, June 1991

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

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

Because

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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

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section 10

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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=====

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1.170 gdbm 1.18.1-5

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Version 3, 29 June 2007

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1.171 mime-support 3.64ubuntu1

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1.172 python3.8 3.8.5-1~20.04

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.174 python-setuptools 45.2.0-1

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* @version 3.0 (December 2000)

*

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

*

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

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

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1.180 libxcrypt 4.4.10-10ubuntu4

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1.182 sysv-init 2.93-8

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1.184 file 5.35-4+deb10u2

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1.185 json-glib 1.4.4-2ubuntu2

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1.187 go-immutable-radix 1.1.0

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1.188 go-msgpack 0.5.5

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jar/org/apache/commons/logging/impl/package.html
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jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1134796792_1613421916.0/0/commons-logging-1-1-sources-8-
jar/org/apache/commons/logging/impl/LogKitLogger.java
*
/opt/cola/permits/1134796792_1613421916.0/0/commons-logging-1-1-sources-8-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1134796792_1613421916.0/0/commons-logging-1-1-sources-8-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1134796792_1613421916.0/0/commons-logging-1-1-sources-8-
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jar/org/apache/commons/logging/impl/Log4JLogger.java
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jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1134796792_1613421916.0/0/commons-logging-1-1-sources-8-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
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Files-Excluded: appveyor.yml

circle.yml

build/*

programs/windres/*

.travis.yml

.buckversion

.buckconfig

.circleci/*

Files: *

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Comment: Starting from 1.3.1 zstd's patent claim is removed

see: <https://github.com/facebook/zstd/pull/801>

Files: zlibWrapper/examples/*.c

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Files: zlibWrapper/gz*.c

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1.192 servlet-api 3.1.0

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1.193 libproxy 0.4.15-10ubuntu1.1

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1.194 gsettings-desktop-schemas 3.36.0-1ubuntu1

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

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1.195 supervisor 4.1.0-1ubuntu1

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1.196 libtasn 4.16.0-2

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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section 10

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<dd><p>One might, for example, want to query all objects that overlap with the 35th parallel: SELECT id FROM demo_index WHERE maxY>=35.0 AND minY<=35.0; But, generally speaking, the more constraints that the R*Tree module has to work with, and the smaller the bounding box, the faster the results will come back. 3.4. Roundoff Error By default, coordinates are stored in an R*Tree using 32-bit floating point values. When a coordinate cannot be exactly represented by a 32-bit floating point number, the lower-bound coordinates are rounded down and the upper-bound coordinates are rounded up. Thus, bounding boxes might be slightly larger than specified, but will never be any smaller. This is exactly what is desired for doing the more common "overlapping" queries where the application

wants to find every entry in the R*Tree that overlaps a query bounding box. Rounding the entry bounding boxes outward might cause a few extra entries to appear in an overlapping query if the edge of the entry bounding box corresponds to an edge of the query bounding box. But the overlapping query will never miss a valid table entry. However, for a "contained-within" style query, rounding the bounding boxes outward might cause some entries to be excluded from the result set if the edge of the entry bounding box corresponds to the edge of the query bounding box. To guard against this, applications should expand their contained-within query boxes slightly (by 0.000012%) by rounding down the lower coordinates and rounding up the top coordinates, in each dimension. 3.5. Reading And Writing At The Same Time It is the nature of the Guttman R-Tree algorithm that any write might radically restructure the tree, and in the process change the scan order of the nodes. For this reason, it is not generally possible to modify the R-Tree in the middle of a query of the R-Tree. Attempts to do so will fail with a SQLITE_LOCKED "database table is locked" error. So, for example, suppose an application runs one query against an R-Tree like this: SELECT id FROM demo_index WHERE maxY>=35.0 AND minY<=35.0; Then for each "id" value returned, suppose the application creates an UPDATE statement like the following and binds the "id" value returned against the "?1" parameter: UPDATE demo_index SET maxY=maxY+0.5 WHERE id=?1; Then the UPDATE might fail with an SQLITE_LOCKED error. The reason is that the initial query has not run to completion. It is remembering its place in the middle of a scan of the R-Tree. So an update to the R-Tree cannot be tolerated as this would disrupt the scan. It is also possible to express this kind of simultaneous read and write on an R-Tree within a single query, for example if an UPDATE statement tries to change the value of one row of the R-Tree based on a complicated

query from another row of the same R-Tree, perhaps something like this: UPDATE demo_index SET maxY = (SELECT max(maxX) FROM demo_index AS x2 WHERE x2.maxY>demo_index.x2) WHERE maxY>=35.0 AND minY<=35.0; This is a limitation of the R-Tree extension only. Ordinary tables in SQLite are able to read and write at the same time. Other virtual tables might (or might not) also that capability. And R-Tree can appear to read and write at the same time in some circumstances, if it can figure out how to reliably run the query to completion before starting the update. But you shouldn't count on that for every query. Generally speaking, it is best to avoid running queries and updates to the same R-Tree at the same time. If you really need to update an R-Tree based on complex queries against the same R-Tree, it is best to run the complex queries first and store the results in a temporary table, then update the R-Tree based on the values stored in the temporary table. 4. Using R*Trees Effectively

For SQLite versions prior to 3.24.0 (2018-06-04), the only information that an R*Tree index stores about an object is its integer ID and its bounding box. Additional information needs to be stored in separate tables and related to the R*Tree index using the primary key. For the example above, one might create an auxiliary table as follows: CREATE TABLE demo_data(id INTEGER PRIMARY KEY, -- primary key objname TEXT, -- name of the object objtype TEXT, -- object type boundary BLOB -- detailed boundary of object); In this example, the demo_data.boundary field is intended to hold some kind of binary representation of the precise boundaries of the object. The R*Tree index only holds an axis-aligned rectangular boundary for the object. The R*Tree boundary is just an approximation of the true object boundary. So what typically happens is that the R*Tree index is used to narrow a search down to a list of candidate objects and then more detailed and expensive computations are done on each candidate

to find if the candidate truly meets the search criteria. Key Point: An R*Tree index does not normally provide the exact answer but merely reduces the set of potential answers from millions to dozens. Suppose the demo_data.boundary field holds some proprietary data description of a complex two-dimensional boundary for an object and suppose that the application has used the sqlite3_create_function() interface to create application-defined functions "contained_in" and "overlaps" accepting two demo_data.boundary objects and return true or false. One may assume that "contained_in" and "overlaps" are relatively slow functions that we do not want to invoke too frequently. Then an efficient way to find the name of all objects located within the North Carolina 12th District, one may be to run a query like this: SELECT objname FROM demo_data, demo_index WHERE demo_data.id=demo_index.id AND contained_in(demo_data.boundary, :boundary) AND minX>=-81.0 AND maxX<=-79.6 AND minY>=35.0 AND maxY>=36.2;

In the query above, one would presumably bind the binary BLOB description of the precise boundary of the 12th district to the ":boundary" parameter. Notice how the query above works: The R*Tree index runs in the outer loop to find entries that are contained within the bounding box of longitude -81..-79.6 and latitude 35.0..36.2. For each object identifier found, SQLite looks up the corresponding entry in the demo_data table. It then uses the boundary field from the demo_data table as a parameter to the contained_in() function and if that function returns true, the objname field from the demo_data table is returned as the next row of query result. One would get the same answer without the use of the R*Tree index using the following simpler query: SELECT objname FROM demo_data WHERE contained_in(demo_data.boundary, :boundary); The problem with this latter query is that it must apply the contained_in() function to millions of entries in the demo_data table. The use of the R*Tree

in the penultimate query reduces the number of calls to contained_in() function to a small subset of the entire table. The R*Tree index did not find the exact answer itself, it merely limited the search space. 4.1. Auxiliary Columns Beginning with SQLite version 3.24.0 (2018-06-04), r-tree tables can have auxiliary columns that store arbitrary data. Auxiliary columns can be used in place of secondary tables such as "demo_data". Auxiliary columns are marked with a "+" symbol before the column name. Auxiliary columns must come after all of the coordinate boundary columns. There is a limit of no more than 100 auxiliary columns. The following example shows an r-tree table with auxiliary columns that is equivalent to the two tables "demo_index" and "demo_data" above: CREATE VIRTUAL TABLE demo_index2 USING rtree(id, -- Integer primary key minX, maxX, -- Minimum and maximum X coordinate minY, maxY, -- Minimum and maximum Y coordinate +objname TEXT, -- name of the object +objtype TEXT, -- object

type +boundary BLOB -- detailed boundary of object);

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* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/requirements.html

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

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

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* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/consortium.html

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

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<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the ____ day of _____, 2007 ("Effective Date")
by and between _____ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
<a href="http://www.sqlite.org">http://www.sqlite.org</a>
("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of
the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and
maintenance of the SQLite code base, operation of the SQLite
website, protection and maintenance of the SQLite
trademark, as well as for promotion of SQLite at conferences and
trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of
services from Hwaci in consideration for their support of SQLite; and</b>

<p>WHEREAS, Company and Hwaci each wish SQLite to be supported and
maintained as an independent, community-driven project, and to
```

ensure the SQLite development team remains independent.</p>

<p>NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>

<p>The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

<h3>1.2 SQLite Architect</h3>

<p>The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

<h3>1.3 Consortium Member</h3>

<p>A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p>

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>

<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

<h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.</p>

<h4>2.1.3 Custom Development</h4>

<p>The SQLite Developers shall at the request of Company

write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

2.1.5 Legacy Support

The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

2.1.6 Custom Testing

The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

2.1.7 Priority Bug Fixes

The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

2.1.8 Code Quality

The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

2.1.9 Backwards Compatibility

The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

<h4>2.1.10

Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

</p>

<h4>2.1.11 Website</h4>

<p>The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.

</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>

<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

</p>

<h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

</p>

<h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

</p>

<h4>2.2.4 Continuity</h4>

<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>

<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings

and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

</p>

<h4>2.3.2 Responsible Party</h4>

<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite

Developers set

forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>

<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement.

So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>

<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

</p>

<h4>2.3.5 Audits</h4>

<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

</p>

<h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

</p>

<h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9

New Consortium Members</h5>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.</p>

<h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>

<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".</p>

<h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation

published on the [SQLite website](http://www.sqlite.org/) is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees

In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of

taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments,

discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make

the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO

THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and

their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and

provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">

<tr><td valign="top">

HWACI

By:<hr>
<p> </p>
Print Name:<hr>
<p> </p>
Title:<hr>
<p> </p>
</td><td
width="10%"></td>
<td valign="top">
COMPANY

By:<hr>
<p> </p>
Print Name:<hr>
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Title:<hr>
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</td></tr></table>

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/consortium_agreement-20071201.html

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

<p>SQLite itself is in the public domain and can be used for any purpose. But TH3 is proprietary and requires a license.

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* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/th3.html

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

application code is free to use these routines as well, if desired.

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

<p>Public domain</p>

The source code for SQLite is in the public domain. No claim of copyright

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

If N>0 then the connection is free to use more of the WAL file beyond

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

other proprietary or non-standard VFSes.

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* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/uri.html

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

SQLite core and like the SQLite core are in the public domain. The

The **TH3** test harness is a set of proprietary tests, written in

Beginning in late 2018, SQLite has been fuzzed using a new proprietary

Found in path(s):

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

[public domain](copyright.html). No claim of ownership is made

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* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/faq.html

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

Proprietary SQLite Extensions

[public domain](copyright.html). But there also exist proprietary, licensed extensions to SQLite.

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/support.html

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

application is free to use the same [database connection](..c3ref/sqlite3.html) or the

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/c3ref/c_config_covering_index_scan.html

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

<html>

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<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p>Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium,

a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.<p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers.

SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.</p>

<p>The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.</p>

<p>Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.</p>

<p>"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla.

"As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."</p>

<p>"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development, " said Bruce Carney, Director, Developer Programmes & Services, Symbian.

"Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."</p>

<p>SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, <http://www.sqlite.org/>.</p>

<center>
###

</center>

<p>About SQLite</p>

<p>SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>

CONTACT INFORMATION:

SQLite Consortium

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<http://www.sqlite.org/>

Tel: +1.704.948.4565

</p>

<p>About Mozilla</p>

<p>Mozilla is a global community dedicated to building free, open source products

and technologies that improve the online experience for people everywhere.

Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation.

As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation.

For more information, visit www.mozilla.com.</p>

<p>CONTACT INFORMATION:

Mozilla Corporation

Jessica Waight

Tel: +1.415.345.4754

Email: jwaight@outcastpr.com

</p>

<p>About Symbian Limited</p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS,

the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.</p>

<p>CONTACT INFORMATION:

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+44 207 154 1707

press@symbian.com

</p>

</body></html>

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/pressrelease-20071212.html

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

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/custombuild.html

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

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/rtree.html

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

access to all proprietary extensions and test suites.

access to all proprietary extensions and test suites.

public domain,</p>

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/prosupport.html

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

#!/usr/bin/tclsh.docsrc

```

#### Import of wapp.tcl
# Copyright (c) 2017 D. Richard Hipp
#
# This program is free software; you can redistribute it and/or
# modify it under the terms of the Simplified BSD License (also
# known as the "2-Clause License" or "FreeBSD License".)
#
# This program is distributed in the hope that it will be useful,
# but without any warranty; without even the implied warranty of
# merchantability or fitness for a particular purpose.
#
#-----
#
# Design rules:
#
# (1) All identifiers in the global namespace begin with "wapp"
#
# (2) Identifiers intended for internal use only begin with "wappInt"
#

# Add text to the end of the HTTP reply. No interpretation or transformation
# of the text is performed. The argument should be enclosed within {...}
#
proc wapp {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add
text to the page under construction. Do no escaping on the text.
#
# Though "unsafe" in general, there are uses for this kind of thing.
# For example, if you want to return the complete, unmodified content of
# a file:
#
#     set fd [open content.html rb]
#     wapp-unsafe [read $fd]
#     close $fd
#
# You could do the same thing using ordinary "wapp" instead of "wapp-unsafe".
# The difference is that wapp-safety-check will complain about the misuse
# of "wapp", but it assumes that the person who write "wapp-unsafe" understands
# the risks.
#
# Though occasionally necessary, the use of this interface should be minimized.
#
proc wapp-unsafe {txt} {
    global wapp

```

```

dict append wapp .reply $txt
}

# Add text to the end of the reply under construction. The following
# substitutions are made:
#
# %html(...)      Escape text for inclusion in HTML
# %url(...)       Escape text for use as a URL
# %qp(...)        Escape text for use as a URI query parameter
#
# %string(...)    Escape text for use within a JSON string
# %unsafe(...)    No transformations of the text
#
# The substitutions above terminate at the first ")" character. If the
# text of the TCL string in ... contains ")" characters itself, use instead:
#
# %html%(...)%
# %url%(...)%
# %qp%(...)%
# %string%(...)%
# %unsafe%(...)%
#
# In other words, use "%(...)%" instead of "(...)" to include the TCL string
# to substitute.
#
# The %unsafe substitution should be avoided whenever possible, obviously.
# In addition to the substitutions above, the text also does backslash
# escapes.
#
proc wapp-subst {txt} {
    global wapp
    reesub -all {% (html|url|qp|string|unsafe){ 1,1} ?(!%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# Works like wapp-subst, but also removes whitespace from the beginning
# of lines.
#
proc wapp-trim {txt} {
    global wapp
    reesub -all {\n\s+} [string
    trim $txt] \n txt
    reesub -all {% (html|url|qp|string|unsafe){ 1,1} ?(!%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

```

```

# There must be a wappInt-enc-NAME routine for each possible substitution
# in wapp-subst. Thus there are routines for "html", "url", "qp", and "unsafe".
#
# wappInt-enc-html      Escape text so that it is safe to use in the
#                        body of an HTML document.
#
# wappInt-enc-url      Escape text so that it is safe to pass as an
#                        argument to href= and src= attributes in HTML.
#
# wappInt-enc-qp       Escape text so that it is safe to use as the
#                        value of a query parameter in a URL or in
#                        post data or in a cookie.
#
# wappInt-enc-string   Escape ", ', \, and < for using inside of a
#                        javascript string literal.
#                        The < character
#                        is escaped to prevent "</script>" from causing
#                        problems in embedded javascript.
#
# wappInt-enc-unsafe   Perform no encoding at all. Unsafe.
#
proc wappInt-enc-html {txt} {
    return [string map {& &#92;} $txt]
}
proc wappInt-enc-unsafe {txt} {
    return $txt
}
proc wappInt-enc-url {s} {
    if {[regsub -all {[^-{}@~?=#_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s}} {
        set s [subst -novar -noback $s]
    }
    if {[regsub -all {[]} $s {[wappInt-%HHchar \&}] s}} {
        set s [subst -novar -noback $s]
    }
    return $s
}
proc wappInt-enc-qp {s} {
    if {[regsub -all {[^-{}_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s}} {
        set s [subst -novar -noback $s]
    }
    if {[regsub -all {[]} $s {[wappInt-%HHchar \&}] s}} {
        set s [subst -novar -noback $s]
    }
    return $s
}
proc wappInt-enc-string {s} {
    return [string map {\\ \\\\ \' \\' \' < \u003c} $s]
}

```



```

# This is a
  helper routine for wappInt-enc-url and wappInt-enc-qp.  It returns
# an appropriate %HH encoding for the single character c.  If c is a unicode
# character, then this routine might return multiple bytes: %HH%HH%HH
#
proc wappInt-%HHchar {c} {
  if {$c==" "} {return +}
  return [regsub -all .. [binary encode hex [encoding convertto utf-8 $c]] {%&}]
}

```

```

# Undo the www-url-encoded format.

```

```

#
# HT: This code stolen from ncgi.tcl
#
proc wappInt-decode-url {str} {
  set str [string map [list + { } "\" "\\\\" \[ \\\[ \] \\\]] $str]
  regsub -all -- \
    {%([Ee][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2\3]]} str
  regsub -all -- \
    {%([CDcd][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2]]} str
  regsub -all -- {%([0-7][A-Fa-f0-9])} $str {\u00\1} str
  return [subst -novar $str]
}

```

```

# Reset the document back to an empty string.

```

```

#
proc
  wapp-reset {} {
  global wapp
  dict set wapp .reply {}
}

```

```

# Change the mime-type of the result document.

```

```

#
proc wapp-mimetype {x} {
  global wapp
  dict set wapp .mimetype $x
}

```

```

# Change the reply code.

```

```

#
proc wapp-reply-code {x} {
  global wapp
  dict set wapp .reply-code $x
}

```

```

}

# Set a cookie
#
proc wapp-set-cookie {name value} {
    global wapp
    dict lappend wapp .new-cookies $name $value
}

# Unset a cookie
#
proc wapp-clear-cookie {name} {
    wapp-set-cookie $name {}
}

# Add extra entries to the reply header
#
proc wapp-reply-extra {name value} {
    global wapp
    dict lappend wapp .reply-extra $name $value
}

# Specifies how the web-page under construction should be cached.
# The argument should be one of:
#
# no-cache
# max-age=N          (for some integer number of seconds, N)
# private,max-age=N
#
proc wapp-cache-control {x} {
    wapp-reply-extra Cache-Control $x
}

# Redirect to a different web page
#
proc wapp-redirect {uri} {
    wapp-reply-code {307 Redirect}
    wapp-reply-extra
    Location $uri
}

# Return the value of a wapp parameter
#
proc wapp-param {name {dflt {}}} {
    global wapp
    if {![dict exists $wapp $name]} {return $dflt}
    return [dict get $wapp $name]
}

```

```

# Return true if a and only if the wapp parameter $name exists
#
proc wapp-param-exists {name} {
    global wapp
    return [dict exists $wapp $name]
}

# Set the value of a wapp parameter
#
proc wapp-set-param {name value} {
    global wapp
    dict set wapp $name $value
}

# Return all parameter names that match the GLOB pattern, or all
# names if the GLOB pattern is omitted.
#
proc wapp-param-list {{glob {*}}} {
    global wapp
    return [dict keys $wapp $glob]
}

# By default, Wapp does not decode query parameters and POST parameters
# for cross-origin requests. This is a security restriction, designed to
# help prevent cross-site request forgery (CSRF) attacks.
#
# As a consequence of this restriction, URLs for sites generated by Wapp
# that contain query parameters will not work as URLs
# found in other
# websites. You cannot create a link from a second website into a Wapp
# website if the link contains query planner, by default.
#
# Of course, it is sometimes desirable to allow query parameters on external
# links. For URLs for which this is safe, the application should invoke
# wapp-allow-xorigin-params. This procedure tells Wapp that it is safe to
# go ahead and decode the query parameters even for cross-site requests.
#
# In other words, for Wapp security is the default setting. Individual pages
# need to actively disable the cross-site request security if those pages
# are safe for cross-site access.
#
proc wapp-allow-xorigin-params {} {
    global wapp
    if {[dict exists $wapp .qp] && ![dict get $wapp SAME_ORIGIN]} {
        wappInt-decode-query-params
    }
}

```

```

# Set the content-security-policy.
#
# The default content-security-policy is very strict: "default-src 'self'"
# The default policy prohibits the use of in-line javascript or CSS.
#
# Provide an alternative
CSP as the argument. Or use "off" to disable
# the CSP completely.
#
proc wapp-content-security-policy {val} {
    global wapp
    if {$val=="off"} {
        dict unset wapp .csp
    } else {
        dict set wapp .csp $val
    }
}

# Examine the bodys of all procedures in this program looking for
# unsafe calls to various Wapp interfaces. Return a text string
# containing warnings. Return an empty string if all is ok.
#
# This routine is advisory only. It misses some constructs that are
# dangerous and flags others that are safe.
#
proc wapp-safety-check {} {
    set res {}
    foreach p [info procs] {
        set ln 0
        foreach x [split [info body $p] \n] {
            incr ln
            if {[regexp {[ \t]*wapp[ \t]+([\n]+)} $x all tail]
                && [string index $tail 0]!="\173"
                && [regexp {[[ $]} $tail]
            } {
                append res "$p:$ln: unsafe \"wapp\" call: \"[string trim $x]\"\n"
            }
            if {[regexp {[ \t]*wapp-(subst(trim)[ \t]+[^\173]} $x all cx]} {
                append res "$p:$ln: unsafe \"wapp-$cx\"
                call: \"[string trim $x]\"\n"
            }
        }
    }
    return $res
}

# Return a string that descripts the current environment. Applications

```

```

# might find this useful for debugging.
#
proc wapp-debug-env {} {
    global wapp
    set out {}
    foreach var [lsort [dict keys $wapp]] {
        if {[string index $var 0]=="."} continue
        append out "$var = [list [dict get $wapp $var]]\n"
    }
    append out "\[pwd\] = [list [pwd]]\n"
    return $out
}

# Tracing function for each HTTP request. This is overridden by wapp-start
# if tracing is enabled.
#
proc wappInt-trace {} {}

# Start up a listening socket. Arrange to invoke wappInt-new-connection
# for each inbound HTTP connection.
#
# port      Listen on this TCP port. 0 means to select a port
#           that is not currently in use
#
# wappmode  One of "scgi", "server", or "local".
#
proc wappInt-start-listener {port wappmode} {
    if {$wappmode=="scgi"} {
        set type SCGI
        set server [list wappInt-new-connection
wappInt-scgi-readable $wappmode]
    } else {
        set type HTTP
        set server [list wappInt-new-connection wappInt-http-readable $wappmode]
    }
    if {$wappmode=="local"} {
        set x [socket -server $server -myaddr 127.0.0.1 $port]
    } else {
        set x [socket -server $server $port]
    }
    set coninfo [chan configure $x -sockname]
    set port [lindex $coninfo 2]
    if {$wappmode=="local"} {
        wappInt-start-browser http://127.0.0.1:$port/
    } else {
        puts "Listening for $type requests on TCP port $port"
    }
}

```

```

# Start a web-browser and point it at $URL
#
proc wappInt-start-browser {url} {
    global tcl_platform
    if {$tcl_platform(platform)=="windows"} {
        exec cmd /c start $url &
    } elseif {$tcl_platform(os)=="Darwin"} {
        exec open $url &
    } elseif {[catch {exec xdg-open $url}]} {
        exec firefox $url &
    }
}

# This routine is a "socket -server" callback. The $chan, $ip, and $port
# arguments are added by the socket command.
#
# Arrange to invoke $callback when content is available
# on the new socket.
# The $callback will process inbound HTTP or SCGI content.
#
proc wappInt-new-connection {callback wappmode chan ip port} {
    upvar #0 wappInt-$chan W
    set W [dict create REMOTE_ADDR $ip REMOTE_PORT $port WAPP_MODE $wappmode \
        .header {}]
    fconfigure $chan -blocking 0 -translation binary
    fileevent $chan readable [list $callback $chan]
}

# Close an input channel
#
proc wappInt-close-channel {chan} {
    if {$chan=="stdout"} {
        # This happens after completing a CGI request
        exit 0
    } else {
        unset ::wappInt-$chan
        close $chan
    }
}

# Process new text received on an inbound HTTP request
#
proc wappInt-http-readable {chan} {
    if {[catch [list wappInt-http-readable-unsafe $chan] msg]} {
        puts stderr "$msg\n$::errorInfo"
        wappInt-close-channel $chan
    }
}

```

```

}
proc wappInt-http-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if {![dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header
    set line [string trimright [gets $chan]]
    set n [string length $line]
    if {$n>0} {
      if {[dict get $W .header]=="" || [regexp {^\s+} $line]} {
        dict append W .header $line
      } else {
        dict append W .header \n$line
      }
    }
    if {[string length [dict get $W .header]]>100000} {
      error "HTTP request header too big - possible DOS attack"
    }
  } elseif {$n==0} {
    # We have reached the blank line that terminates the header.
    global argv0
    set a0 [file normalize $argv0]
    dict set W SCRIPT_FILENAME $a0
    dict set W DOCUMENT_ROOT [file dir $a0]
    if {[wappInt-parse-header $chan]} {
      catch {close $chan}
      return
    }
    set len 0
    if {[dict exists $W CONTENT_LENGTH]} {
      set len [dict get $W CONTENT_LENGTH]
    }
    if {$len>0} {
      # Still need to read the query content
      dict set W .toread $len
    } else {
      # There is no query content, so handle
the request immediately
      set wapp $W
      wappInt-handle-request $chan 0
    }
  }
} else {
  # If .toread is set, that means we are reading the query content.
  # Continue reading until .toread reaches zero.
  set got [read $chan [dict get $W .toread]]
  dict append W CONTENT $got
  dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
  if {[dict get $W .toread]<=0} {

```

```

# Handle the request as soon as all the query content is received
set wapp $W
wappInt-handle-request $chan 0
}
}
}

# Decode the HTTP request header.
#
# This routine is always running inside of a [catch], so if
# any problems arise, simply raise an error.
#
proc wappInt-parse-header {chan} {
  upvar #0 wappInt-$chan W
  set hdr [split [dict get $W .header] \n]
  if {$hdr==""} {return 1}
  set req [lindex $hdr 0]
  dict set W REQUEST_METHOD [set method [lindex $req 0]]
  if {[lsearch {GET HEAD POST} $method]<0} {
    error "unsupported request method:
\"[dict get $W REQUEST_METHOD]\""
  }
  set uri [lindex $req 1]
  set split_uri [split $uri ?]
  set uri0 [lindex $split_uri 0]
  if {[!regexp {^[-.a-z0-9_/*$] $uri0}] {
    error "invalid request uri: \"$uri0\""
  }
  dict set W REQUEST_URI $uri0
  dict set W PATH_INFO $uri0
  set uri1 [lindex $split_uri 1]
  dict set W QUERY_STRING $uri1
  set n [llength $hdr]
  for {set i 1} {$i<$n} {incr i} {
    set x [lindex $hdr $i]
    if {[!regexp {^(.+):+(.*)$} $x all name value]} {
      error "invalid header line: \"$x\""
    }
  }
  set name [string toupper $name]
  switch -- $name {
    REFERER {set name HTTP_REFERER}
    USER-AGENT {set name HTTP_USER_AGENT}
    CONTENT-LENGTH {set name CONTENT_LENGTH}
    CONTENT-TYPE {set name CONTENT_TYPE}
    HOST {set name HTTP_HOST}
    COOKIE {set name HTTP_COOKIE}
    ACCEPT-ENCODING {set name HTTP_ACCEPT_ENCODING}
    default {set name .hdr:$name}
  }
}

```



```

}
dict set W $name $value
}
return 0
}

# Decode the QUERY_STRING
parameters from a GET request or the
# application/x-www-form-urlencoded CONTENT from a POST request.
#
# This routine sets the ".qp" element of the ::wapp dict as a signal
# that query parameters have already been decoded.
#
proc wappInt-decode-query-params {} {
    global wapp
    dict set wapp .qp 1
    if {[dict exists $wapp QUERY_STRING]} {
        foreach qterm [split [dict get $wapp QUERY_STRING] &] {
            set qsplit [split $qterm =]
            set nm [lindex $qsplit 0]
            if {[regexp {[a-z][a-z0-9]*}$ $nm]} {
                dict set wapp $nm [wappInt-decode-url [lindex $qsplit 1]]
            }
        }
    }
    if {[dict exists $wapp CONTENT_TYPE] && [dict exists $wapp CONTENT]} {
        set ctype [dict get $wapp CONTENT_TYPE]
        if {$ctype=="application/x-www-form-urlencoded"} {
            foreach qterm [split [string trim [dict get $wapp CONTENT]] &] {
                set qsplit [split $qterm =]
                set nm [lindex $qsplit 0]
                if {[regexp {[a-z][-a-z0-9_]*}$ $nm]} {
                    dict set wapp $nm [wappInt-decode-url
[lindex $qsplit 1]]
                }
            }
        }
        } elseif {[string match multipart/form-data* $ctype]} {
            regexp {^(.*?)\r\n(.*)$} [dict get $wapp CONTENT] all divider body
            set ndiv [string length $divider]
            while {[string length $body]} {
                set idx [string first $divider $body]
                set unit [string range $body 0 [expr {$idx-3}]]
                set body [string range $body [expr {$idx+$ndiv+2}] end]
                if {[regexp {^Content-Disposition: form-data; (.*)\r\n\r\n(.*)$} \
                    $unit unit hdr content] &&
                    [regexp {name="(.*); filename="(.*)"\r\nContent-Type: (.*)$} \
                        $hdr hr name filename mimetype]} {
                    dict set wapp $name.filename \

```

```

    [string map [list \\" \" \\\\" \\] $filename]
    dict set wapp $name.mimetype $mimetype
    dict set wapp $name.content $content
  }
}
}
}
}

# Invoke application-supplied methods to generate a reply to
# a single HTTP request.
#
# This routine always
# runs within [catch], so handle exceptions by
# invoking [error].
#
proc wappInt-handle-request {chan useCgi} {
  global wapp
  dict set wapp .reply {}
  dict set wapp .mimetype {text/html; charset=utf-8}
  dict set wapp .reply-code {200 Ok}
  dict set wapp .csp {default-src 'self'}

  # Set up additional CGI environment values
  #
  if {[dict exists $wapp HTTP_HOST]} {
    dict set wapp BASE_URL {}
  } elseif {[dict exists $wapp HTTPS]} {
    dict set wapp BASE_URL https://[dict get $wapp HTTP_HOST]
  } else {
    dict set wapp BASE_URL http://[dict get $wapp HTTP_HOST]
  }
  if {[dict exists $wapp REQUEST_URI]} {
    dict set wapp REQUEST_URI /
  } elseif {[regsub {\?.*} [dict get $wapp REQUEST_URI] {} newR]} {
    # Some servers (ex: nginx) append the query parameters to REQUEST_URI.
    # These need to be stripped off
    dict set wapp REQUEST_URI $newR
  }
  if {[dict exists $wapp SCRIPT_NAME]} {
    dict append wapp BASE_URL [dict get $wapp SCRIPT_NAME]
  } else {
    dict set wapp
    SCRIPT_NAME {}
  }
  if {[dict exists $wapp PATH_INFO]} {
    # If PATH_INFO is missing (ex: nginx) the construct it
    set URI [dict get $wapp REQUEST_URI]

```

```

set skip [string length [dict get $wapp SCRIPT_NAME]]
dict set wapp PATH_INFO [string range $URI $skip end]
}
if {[regexp {^/(^/)+(.*)$} [dict get $wapp PATH_INFO] all head tail]} {
dict set wapp PATH_HEAD $head
dict set wapp PATH_TAIL [string trimleft $tail /]
} else {
dict set wapp PATH_INFO {}
dict set wapp PATH_HEAD {}
dict set wapp PATH_TAIL {}
}
dict set wapp SELF_URL [dict get $wapp BASE_URL]/[dict get $wapp PATH_HEAD]

# Parse query parameters from the query string, the cookies, and
# POST data
#
if {[dict exists $wapp HTTP_COOKIE]} {
foreach qterm [split [dict get $wapp HTTP_COOKIE] {;}] {
set qsplit [split [string trim $qterm] =]
set nm [lindex $qsplit 0]
if {[regexp {^[a-z][-a-z0-9_]*$} $nm]} {
dict set wapp $nm [wappInt-decode-url [lindex
$qsplit 1]]
}
}
}
set same_origin 0
if {[dict exists $wapp HTTP_REFERER]} {
set referer [dict get $wapp HTTP_REFERER]
set base [dict get $wapp BASE_URL]
if {$referer==$base || [string match $base/* $referer]} {
set same_origin 1
}
}
dict set wapp SAME_ORIGIN $same_origin
if {$same_origin} {
wappInt-decode-query-params
}

# Invoke the application-defined handler procedure for this page
# request. If an error occurs while running that procedure, generate
# an HTTP reply that contains the error message.
#
wapp-before-dispatch-hook
wappInt-trace
set mname [dict get $wapp PATH_HEAD]
if {[catch {
if {$mname!="" && [llength [info proc wapp-page-$mname]]>0} {

```

```

    wapp-page-$mname
  } else {
    wapp-default
  }
} msg] {
if {[wapp-param WAPP_MODE]=="local" || [wapp-param WAPP_MODE]=="server"} {
  puts "ERROR: $::errorInfo"
}
wapp-reset
wapp-reply-code "500 Internal Server Error"
wapp-mimetype
text/html
wapp-trim {
  <h1>Wapp Application Error</h1>
  <pre>%html($::errorInfo)</pre>
}
dict unset wapp .new-cookies
}

# Transmit the HTTP reply
#
if {$chan=="stdout"} {
  puts $chan "Status: [dict get $wapp .reply-code]\r"
} else {
  puts $chan "HTTP/1.1 [dict get $wapp .reply-code]\r"
  puts $chan "Server: wapp\r"
  puts $chan "Connection: close\r"
}
if {[dict exists $wapp .reply-extra]} {
  foreach {name value} [dict get $wapp .reply-extra] {
    puts $chan "$name: $value\r"
  }
}
if {[dict exists $wapp .csp]} {
  puts $chan "Content-Security-Policy: [dict get $wapp .csp]\r"
}
set mimetype [dict get $wapp .mimetype]
puts $chan "Content-Type: $mimetype\r"
if {[dict exists $wapp .new-cookies]} {
  foreach {nm val} [dict get $wapp .new-cookies] {
    if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
      if {$val==""} {
        puts $chan "Set-Cookie: $nm=; HttpOnly; Path=/; Max-Age=1\r"
      } else {
        set
      }
    }
  }
}
val [wappInt-enc-url $val]
puts $chan "Set-Cookie: $nm=$val; HttpOnly; Path=\r"
}

```

```

    }
  }
}
if {[string match text/* $mimetype]} {
  set reply [encoding convertto utf-8 [dict get $wapp .reply]]
  if {[regexp {\ygzip\y} [wapp-param HTTP_ACCEPT_ENCODING]]} {
    catch {
      set x [zlib gzip $reply]
      set reply $x
      puts $chan "Content-Encoding: gzip\r"
    }
  }
} else {
  set reply [dict get $wapp .reply]
}
puts $chan "Content-Length: [string length $reply]\r"
puts $chan \r
puts $chan $reply
flush $chan
wappInt-close-channel $chan
}

```

```

# This routine runs just prior to request-handler dispatch. The
# default implementation is a no-op, but applications can override
# to do additional transformations or checks.
#
proc wapp-before-dispatch-hook {} {return}

```

```

# Process a single CGI request
#
proc wappInt-handle-cgi-request {} {
  global wapp env
  foreach key {
    CONTENT_LENGTH
    CONTENT_TYPE
    DOCUMENT_ROOT
    HTTP_ACCEPT_ENCODING
    HTTP_COOKIE
    HTTP_HOST
    HTTP_REFERER
    HTTP_USER_AGENT
    HTTPS
    PATH_INFO
    QUERY_STRING
    REMOTE_ADDR
    REQUEST_METHOD
    REQUEST_URI
    REMOTE_USER
  }
}

```

```

SCRIPT_FILENAME
SCRIPT_NAME
SERVER_NAME
SERVER_PORT
SERVER_PROTOCOL
} {
  if {[info exists env($key)]} {
    dict set wapp $key $env($key)
  }
}
set len 0
if {[dict exists $wapp CONTENT_LENGTH]} {
  set len [dict get $wapp CONTENT_LENGTH]
}
if {$len>0} {
  fconfigure stdin -translation binary
  dict set wapp CONTENT [read stdin $len]
}
dict set wapp WAPP_MODE cgi
fconfigure stdout -translation binary
wappInt-handle-request stdout 1
}

# Process new text received on an inbound SCGI request
#
proc wappInt-scgi-readable {chan} {
  if {[catch [list wappInt-scgi-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}
proc wappInt-scgi-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if
  {![dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header.
    #
    # An SGI header is short. This implementation assumes the entire
    # header is available all at once.
    #
    set req [read $chan 15]
    set n [string length $req]
    scan $req %d:%s len hdr
    incr len [string length "$len:."]
    append hdr [read $chan [expr {$len-15}]]
    foreach {nm val} [split $hdr \000] {
      if {$nm=="."} break
    }
  }
}

```

```

dict set W $nm $val
}
set len 0
if {[dict exists $W CONTENT_LENGTH]} {
    set len [dict get $W CONTENT_LENGTH]
}
if {$len>0} {
    # Still need to read the query content
    dict set W .toread $len
} else {
    # There is no query content, so handle the request immediately
    set wapp $W
    wappInt-handle-request $chan 0
}
} else {
    # If .toread is set, that means we are reading the query content.
    # Continue reading until .toread reaches zero.
    set got [read
$chan [dict get $W .toread]]
    dict append W CONTENT $got
    dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
    if {[dict get $W .toread]<=0} {
        # Handle the request as soon as all the query content is received
        set wapp $W
        wappInt-handle-request $chan 0
    }
}
}
}

```

```

# Start up the wapp framework. Parameters are a list passed as the
# single argument.
#
# -server $PORT      Listen for HTTP requests on this TCP port $PORT
#
# -local $PORT      Listen for HTTP requests on 127.0.0.1:$PORT
#
# -scgi $PORT       Listen for SCGI requests on TCP port $PORT
#
# -cgi              Handle a single CGI request
#
# With no arguments, the behavior is called "auto". In "auto" mode,
# if the GATEWAY_INTERFACE environment variable indicates CGI, then run
# as CGI. Otherwise, start an HTTP server bound to the loopback address
# only, on an arbitrary TCP port, and automatically launch a web browser
# on that TCP port.
#
# Additional

```

```

options:
#
# -trace          "puts" each request URL as it is handled, for
#                 debugging
#
# -lint          Run wapp-safety-check on the application instead
#                 of running the application itself
#
# -Dvar=value     Set TCL global variable "var" to "value"
#
#
proc wapp-start {arglist} {
  global env
  set mode auto
  set port 0
  set n [llength $arglist]
  for {set i 0} {$i<$n} {incr i} {
    set term [lindex $arglist $i]
    if {[string match --* $term]} {set term [string range $term 1 end]}
    switch -glob -- $term {
      -server {
        incr i;
        set mode "server"
        set port [lindex $arglist $i]
      }
      -local {
        incr i;
        set mode "local"
        set port [lindex $arglist $i]
      }
      -scgi {
        incr i;
        set mode "scgi"
        set port [lindex $arglist $i]
      }
      -cgi {
        set mode "cgi"
      }
      -trace {
        proc wappInt-trace {} {
          set q [wapp-param QUERY_STRING]
          set uri [wapp-param BASE_URL][wapp-param PATH_INFO]
          if {$q!=""} {append uri ?$q}
          puts $uri
        }
      }
      -lint {

```



```

set res [wapp-safety-check]
if {$res!=""} {
    puts "Potential problems in this code:"
    puts $res
    exit 1
} else {
    exit
}
}
}
-D*=* {
    if {[regexp {^D([^=]+)=(.*)$} $term all var val]} {
        set ::$var $val
    }
}
default {
    error "unknown option: $term"
}
}
}
if {($mode=="auto"
    && [info exists env(GATEWAY_INTERFACE)]
    && [string match CGI/1.* $env(GATEWAY_INTERFACE)])
    || $mode=="cgi"
} {
    wappInt-handle-cgi-request
    return
}
if {$mode=="scgi"} {
    wappInt-start-listener $port scgi
} elseif {$mode=="server"} {
    wappInt-start-listener $port server
} else {
    wappInt-start-listener $port local
}
vwait ::forever
}

# Call this version
1.0
package provide wapp 1.0

#### End of wapp.tcl

# Generate all header content for the output document
#
proc search_header {} {
    wapp-trim {
<!DOCTYPE html>

```

```

<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="../sqlite.css" rel="stylesheet">
<title>Search SQLite Stats</title>
<!-- path=../ -->
</head>
<body>
<div class=nosearch>
<a href="../index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="../index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='../about.html'>About</a>
<li class='desktoponly'><a href="../docs.html">Documentation</a>
<li class='desktoponly'><a
href="../download.html">Download</a>
<li class='wideonly'><a href='../copyright.html'>License</a>
<li class='desktoponly'><a href="../support.html">Support</a>
<li class='desktoponly'><a href="../prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='../about.html'>About</a>
<li><a href='../docs.html'>Documentation</a>
<li><a href='../download.html'>Download</a>
<li><a href='../support.html'>Support</a>
<li><a href='../prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="../search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">

```

```

</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w =
  document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){ div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display
= 'none';
b.innerHTML='show';
}else{
x.style.display = "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>
}

```

```

}

proc wapp-default {} {
# When running using the built-in webserver in Wapp (in other words,
# when not running as CGI) any filename that contains a "." loads
# directly from the filesystem.
if {[wapp-param WAPP_MODE]!="cgi"}
&& [string match *.* [wapp-param PATH_INFO]]
} {
set altfile [file dir [wapp-param SCRIPT_FILENAME]]/../[wapp-param PATH_INFO]
set fd [open $altfile rb]
fconfigure $fd -translation binary
wapp-unsafe [read $fd]
close $fd
switch -glob -- $altfile {
*.html {
wapp-mimetype text/html
}
*.css {
wapp-mimetype text/css
}
*.gif {
wapp-mimetype image/gif
}
}
return
}
wapp-page-admin
}
proc wapp-page-admin {} {
wapp-allow-xorigin-params
wapp-content-security-policy off
if {[wapp-param-exists env]} {
search_header
wapp-trim {

<h1>Environment</h1>
<pre>%html([wapp-debug-env])</pre>
}
return
}
sqlite3 db2 [file dir [wapp-param SCRIPT_FILENAME]]/searchlog.db
set where ""
set res ""

set ipfilter ""
set ipaddr [wapp-param ip]
if {$ipaddr!=""} {

```

```

set where {WHERE ip = $ipaddr}
set ipfilter $ipaddr
}

set checked ""
set isUnique [expr {[wapp-param unique 0]+0}]
if {$isUnique} {
  set checked "checked"
}

set limit [wapp-param limit 10]
set s10 ""
set s100 ""
set s1000 ""
if {$limit==10} {set s10 selected}
if {$limit==100} {set s100 selected}
if {$limit==1000} {set s1000 selected}

search_header
set self [wapp-param PATH_HEAD]
wapp-trim {
  <div style="margin:2em">
  <center>
  <form action='%url($self)' method='GET'>
    Results: <select name=limit onChange="this.form.submit()">
      <option %html($s10) value="10">10</option>
      <option %html($s100) value="100">100</option>
      <option %html($s1000) value="1000">1000</option>
    </select>
    IP: <input type=input name=ip value="%html($ipfilter)">
    Unique: <input
      type=checkbox name=unique value=1
      $checked
      onChange="this.form.submit()">
    <input type=submit>
  </form>
  </center>
  </div>
  <table border=1 cellpadding=10 align=center>
  <tr><td><th>IP <th>Query <th> Results <th> Timestamp
}

set i 0
db2 eval "
SELECT rowid, ip, query, nres, timestamp FROM log $where
ORDER BY rowid DESC
" {

```

```

if {$isUnique} {
  if {[info exists seen($query)]} continue
  set seen($query) 1
}

wapp-trim {
  <tr><td>%html($rowid)
    <td><a href='%url($self)?ip=%qp($ip)'>%html($ip)</a>
    <td><a href='../search?q=%qp($query)&donotlog=1'>%html($query)</a>
    <td>%html($nres)<td>%html($timestamp)
  }
  incr i
  if {$i >= $limit} break
}
wapp-subst {</table\n}
db2 close
}
wapp-start $argv

```

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/search.d/admin
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<html>

<title>SQLite Copyright Release Template</title>

<body bgcolor="white">

<h1 align="center">

Copyright Release for

Contributions To SQLite

</h1>

<p>

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SQLite is available for free download from <http://www.sqlite.org/>.

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</p>

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

```
#!/usr/bin/tclsh.docsrc
#### Import of wapp.tcl
# Copyright (c) 2017 D. Richard Hipp
#
# This program is free software; you can redistribute it and/or
# modify it under the terms of the Simplified BSD License (also
# known as the "2-Clause License" or "FreeBSD License".)
#
# This program is distributed in the hope that it will be useful,
# but without any warranty; without even the implied warranty of
# merchantability or fitness for a particular purpose.
#
#-----
#
# Design rules:
#
# (1) All identifiers in the global namespace begin with "wapp"
#
# (2) Identifiers intended for internal use only begin with "wappInt"
#

# Add text to the end of the HTTP reply. No interpretation or transformation
# of the text is performed. The argument should be enclosed within {...}
#
proc wapp {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add
text to the page under construction. Do no escaping on the text.
#
# Though "unsafe" in general, there are uses for this kind of thing.
# For example, if you want to return the complete, unmodified content of
# a file:
#
#     set fd [open content.html rb]
#     wapp-unsafe [read $fd]
#     close $fd
#
# You could do the same thing using ordinary "wapp" instead of "wapp-unsafe".
# The difference is that wapp-safety-check will complain about the misuse
# of "wapp", but it assumes that the person who write "wapp-unsafe" understands
# the risks.
#
# Though occasionally necessary, the use of this interface should be minimized.
```

```

#
proc wapp-unsafe {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add text to the end of the reply under construction. The following
# substitutions are made:
#
# %html(...)    Escape text for inclusion in HTML
# %url(...)     Escape text for use as a URL
# %qp(...)      Escape text for use as a URI query parameter
#
# %string(...)  Escape text for use within a JSON string
# %unsafe(...)  No transformations of the text
#
# The substitutions above terminate at the first ")" character. If the
# text of the TCL string in ... contains ")" characters itself, use instead:
#
# %html%(...)%
# %url%(...)%
# %qp%(...)%
# %string%(...)%
# %unsafe%(...)%
#
# In other words, use "%(…)%" instead of "(…)" to include the TCL string
# to substitute.
#
# The %unsafe substitution should be avoided whenever possible, obviously.
# In addition to the substitutions above, the text also does backslash
# escapes.
#
proc wapp-subst {txt} {
    global wapp
    regsub -all {% (html|url|qp|string|unsafe){ 1,1} ?(|%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# Works like wapp-subst, but also removes whitespace from the beginning
# of lines.
#
proc wapp-trim {txt} {
    global wapp
    regsub -all {\n\s+} [string
    trim $txt] \n txt
    regsub -all {% (html|url|qp|string|unsafe){ 1,1} ?(|%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt

```

```

dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# There must be a wappInt-enc-NAME routine for each possible substitution
# in wapp-subst. Thus there are routines for "html", "url", "qp", and "unsafe".
#
# wappInt-enc-html      Escape text so that it is safe to use in the
#                        body of an HTML document.
#
# wappInt-enc-url      Escape text so that it is safe to pass as an
#                        argument to href= and src= attributes in HTML.
#
# wappInt-enc-qp       Escape text so that it is safe to use as the
#                        value of a query parameter in a URL or in
#                        post data or in a cookie.
#
# wappInt-enc-string   Escape ", ', \, and < for using inside of a
#                        javascript string literal.
#                        The < character
#                        is escaped to prevent "</script>" from causing
#                        problems in embedded javascript.
#
# wappInt-enc-unsafe   Perform no encoding at all. Unsafe.
#
proc wappInt-enc-html {txt} {
  return [string map {& &lt; &gt; &quot; \\ &#92;} $txt]
}
proc wappInt-enc-unsafe {txt} {
  return $txt
}
proc wappInt-enc-url {s} {
  if {[regsub -all {[^@~?=#_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s}} {
    set s [subst -novar -noback $s]
  }
  if {[regsub -all {[{}]} $s {[wappInt-%HHchar \\&}] s}} {
    set s [subst -novar -noback $s]
  }
  return $s
}
proc wappInt-enc-qp {s} {
  if {[regsub -all {[^_a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s}} {
    set s [subst -novar -noback $s]
  }
  if {[regsub -all {[{}]} $s {[wappInt-%HHchar \\&}] s}} {
    set s [subst -novar -noback $s]
  }
  return $s
}
}

```

```

proc wappInt-enc-string {s} {
    return [string map {\ \ \ \ \ " \ \ \ \ ' \ \ ' < \ \ u003c } $s]
}

# This is a
# helper routine for wappInt-enc-url and wappInt-enc-qp. It returns
# an appropriate %HH encoding for the single character c. If c is a unicode
# character, then this routine might return multiple bytes: %HH%HH%HH
#
proc wappInt-%HHchar {c} {
    if {$c==" "} {return +}
    return [regsub -all .. [binary encode hex [encoding convertto utf-8 $c]] {%&}]
}

# Undo the www-url-encoded format.
#
# HT: This code stolen from ncgi.tcl
#
proc wappInt-decode-url {str} {
    set str [string map [list + { } "\ " "\ \ \ \ " \ [ \ \ \ \ [ \ ] \ \ \ \ ]] $str]
    regsub -all -- \
        {%([Ee][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
        $str {[encoding convertfrom utf-8 [binary decode hex \1\2\3]]} str
    regsub -all -- \
        {%([CDcd][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
        $str {[encoding convertfrom utf-8 [binary decode hex \1\2]]} str
    regsub -all -- {%([0-7][A-Fa-f0-9])} $str {\ \ u00\1} str
    return [subst -novar $str]
}

# Reset the document back to an empty string.
#
proc
wapp-reset {} {
    global wapp
    dict set wapp .reply {}
}

# Change the mime-type of the result document.
#
proc wapp-mimetype {x} {
    global wapp
    dict set wapp .mimetype $x
}

# Change the reply code.
#

```

```

proc wapp-reply-code {x} {
  global wapp
  dict set wapp .reply-code $x
}

# Set a cookie
#
proc wapp-set-cookie {name value} {
  global wapp
  dict lappend wapp .new-cookies $name $value
}

# Unset a cookie
#
proc wapp-clear-cookie {name} {
  wapp-set-cookie $name {}
}

# Add extra entries to the reply header
#
proc wapp-reply-extra {name value} {
  global wapp
  dict lappend wapp .reply-extra $name $value
}

# Specifies how the web-page under construction should be cached.
# The argument should be one of:
#
# no-cache
# max-age=N      (for some integer number of seconds, N)
# private,max-age=N
#
proc wapp-cache-control {x} {
  wapp-reply-extra Cache-Control $x
}

# Redirect to a different web page
#
proc wapp-redirect {uri} {
  wapp-reply-code {307 Redirect}
  wapp-reply-extra
  Location $uri
}

# Return the value of a wapp parameter
#
proc wapp-param {name {dflt {}}} {
  global wapp

```

```

if {[dict exists $wapp $name]} {return $dfmt}
return [dict get $wapp $name]
}

# Return true if a and only if the wapp parameter $name exists
#
proc wapp-param-exists {name} {
    global wapp
    return [dict exists $wapp $name]
}

# Set the value of a wapp parameter
#
proc wapp-set-param {name value} {
    global wapp
    dict set wapp $name $value
}

# Return all parameter names that match the GLOB pattern, or all
# names if the GLOB pattern is omitted.
#
proc wapp-param-list {{glob {*}}} {
    global wapp
    return [dict keys $wapp $glob]
}

# By default, Wapp does not decode query parameters and POST parameters
# for cross-origin requests. This is a security restriction, designed to
# help prevent cross-site request forgery (CSRF) attacks.
#
# As a consequence of this restriction, URLs for sites generated by Wapp
# that contain query parameters will not work as URLs
# found in other
# websites. You cannot create a link from a second website into a Wapp
# website if the link contains query planner, by default.
#
# Of course, it is sometimes desirable to allow query parameters on external
# links. For URLs for which this is safe, the application should invoke
# wapp-allow-xorigin-params. This procedure tells Wapp that it is safe to
# go ahead and decode the query parameters even for cross-site requests.
#
# In other words, for Wapp security is the default setting. Individual pages
# need to actively disable the cross-site request security if those pages
# are safe for cross-site access.
#
proc wapp-allow-xorigin-params {} {
    global wapp
    if {[dict exists $wapp .qp] && ![dict get $wapp SAME_ORIGIN]} {

```

```

wappInt-decode-query-params
}
}

# Set the content-security-policy.
#
# The default content-security-policy is very strict: "default-src 'self'"
# The default policy prohibits the use of in-line javascript or CSS.
#
# Provide an alternative
CSP as the argument. Or use "off" to disable
# the CSP completely.
#
proc wapp-content-security-policy {val} {
    global wapp
    if {$val=="off"} {
        dict unset wapp .csp
    } else {
        dict set wapp .csp $val
    }
}

# Examine the bodys of all procedures in this program looking for
# unsafe calls to various Wapp interfaces. Return a text string
# containing warnings. Return an empty string if all is ok.
#
# This routine is advisory only. It misses some constructs that are
# dangerous and flags others that are safe.
#
proc wapp-safety-check {} {
    set res {}
    foreach p [info procs] {
        set ln 0
        foreach x [split [info body $p] \n] {
            incr ln
            if {[regexp {^[ \t]*wapp[ \t]+([\n]+)} $x all tail]
                && [string index $tail 0]!="\173"
                && [regexp {[{]} $tail]} {
                append res "$p:$ln: unsafe \"wapp\" call: \"[string trim $x]\"\n"
            }
            if {[regexp {^[ \t]*wapp-(subst|trim)[ \t]+([\n]+)} $x all cx]} {
                append res "$p:$ln: unsafe \"wapp-$cx\"
                call: \"[string trim $x]\"\n"
            }
        }
    }
    return $res
}

```



```

}

# Return a string that describes the current environment. Applications
# might find this useful for debugging.
#
proc wapp-debug-env {} {
    global wapp
    set out {}
    foreach var [lsort [dict keys $wapp]] {
        if {[string index $var 0]=="."} continue
        append out "$var = [list [dict get $wapp $var]]\n"
    }
    append out "\[pwd\] = [list [pwd]]\n"
    return $out
}

# Tracing function for each HTTP request. This is overridden by wapp-start
# if tracing is enabled.
#
proc wappInt-trace {} {}

# Start up a listening socket. Arrange to invoke wappInt-new-connection
# for each inbound HTTP connection.
#
# port      Listen on this TCP port. 0 means to select a port
#           that is not currently in use
#
# wappmode  One of "scgi", "server", or "local".
#
proc wappInt-start-listener {port wappmode} {
    if {$wappmode=="scgi"} {
        set type SCGI
        set server [list wappInt-new-connection
wappInt-scgi-readable $wappmode]
    } else {
        set type HTTP
        set server [list wappInt-new-connection wappInt-http-readable $wappmode]
    }
    if {$wappmode=="local"} {
        set x [socket -server $server -myaddr 127.0.0.1 $port]
    } else {
        set x [socket -server $server $port]
    }
    set coninfo [chan configure $x -sockname]
    set port [lindex $coninfo 2]
    if {$wappmode=="local"} {
        wappInt-start-browser http://127.0.0.1:$port/
    } else {

```

```

    puts "Listening for $type requests on TCP port $port"
}
}

# Start a web-browser and point it at $URL
#
proc wappInt-start-browser {url} {
    global tcl_platform
    if {$tcl_platform(platform)=="windows"} {
        exec cmd /c start $url &
    } elseif {$tcl_platform(os)=="Darwin"} {
        exec open $url &
    } elseif {[catch {exec xdg-open $url}]} {
        exec firefox $url &
    }
}

# This routine is a "socket -server" callback. The $chan, $ip, and $port
# arguments are added by the socket command.
#
# Arrange to invoke $callback when content is available
# on the new socket.
# The $callback will process inbound HTTP or SCGI content.
#
proc wappInt-new-connection {callback wappmode chan ip port} {
    upvar #0 wappInt-$chan W
    set W [dict create REMOTE_ADDR $ip REMOTE_PORT $port WAPP_MODE $wappmode \
        .header {}]
    fconfigure $chan -blocking 0 -translation binary
    fileevent $chan readable [list $callback $chan]
}

# Close an input channel
#
proc wappInt-close-channel {chan} {
    if {$chan=="stdout"} {
        # This happens after completing a CGI request
        exit 0
    } else {
        unset ::wappInt-$chan
        close $chan
    }
}

# Process new text received on an inbound HTTP request
#
proc wappInt-http-readable {chan} {
    if {[catch [list wappInt-http-readable-unsafe $chan] msg]} {

```

```

puts stderr "$msg\n$::errorInfo"
wappInt-close-channel $chan
}
}
proc wappInt-http-readable-unsafe {chan} {
upvar #0 wappInt-$chan W wapp wapp
if {[dict exists $W .toread]} {
# If the .toread key is not set, that means we are still reading
# the header
set line [string trimright [gets $chan]]
set n [string length $line]
if {$n>0} {
if {[dict get $W .header]=="" || [regexp {^\s+} $line]} {
dict append W .header $line
} else {
dict append W .header \n$line
}
}
if {[string length [dict get $W .header]]>100000} {
error "HTTP request header too big - possible DOS attack"
}
} elseif {$n==0} {
# We have reached the blank line that terminates the header.
global argv0
set a0 [file normalize $argv0]
dict set W SCRIPT_FILENAME $a0
dict set W DOCUMENT_ROOT [file dir $a0]
if {[wappInt-parse-header $chan]} {
catch {close $chan}
return
}
set len 0
if {[dict exists $W CONTENT_LENGTH]} {
set len [dict get $W CONTENT_LENGTH]
}
if {$len>0} {
# Still need to read the query content
dict set W .toread $len
} else {
# There is no query content, so handle
the request immediately
set wapp $W
wappInt-handle-request $chan 0
}
}
} else {
# If .toread is set, that means we are reading the query content.
# Continue reading until .toread reaches zero.
set got [read $chan [dict get $W .toread]]

```

```

dict append W CONTENT $got
dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
if {[dict get $W .toread]<=0} {
    # Handle the request as soon as all the query content is received
    set wapp $W
    wappInt-handle-request $chan 0
}
}
}

```

```
# Decode the HTTP request header.
```

```
#
```

```
# This routine is always running inside of a [catch], so if
```

```
# any problems arise, simply raise an error.
```

```
#
```

```

proc wappInt-parse-header {chan} {
    upvar #0 wappInt-$chan W
    set hdr [split [dict get $W .header] \n]
    if {$hdr==""} {return 1}
    set req [lindex $hdr 0]
    dict set W REQUEST_METHOD [set method [lindex $req 0]]
    if {[lsearch {GET HEAD POST} $method]<0} {
        error "unsupported request method:
\"[dict get $W REQUEST_METHOD]\""
    }
    set uri [lindex $req 1]
    set split_uri [split $uri ?]
    set uri0 [lindex $split_uri 0]
    if {![regexp {^[-.a-z0-9_]*$} $uri0]} {
        error "invalid request uri: \"$uri0\""
    }
    dict set W REQUEST_URI $uri0
    dict set W PATH_INFO $uri0
    set uri1 [lindex $split_uri 1]
    dict set W QUERY_STRING $uri1
    set n [llength $hdr]
    for {set i 1} {$i<$n} {incr i} {
        set x [lindex $hdr $i]
        if {![regexp {^(.+):+(.*)$} $x all name value]} {
            error "invalid header line: \"$x\""
        }
        set name [string toupper $name]
        switch -- $name {
            REFERER {set name HTTP_REFERER}
            USER-AGENT {set name HTTP_USER_AGENT}
            CONTENT-LENGTH {set name CONTENT_LENGTH}
            CONTENT-TYPE {set name CONTENT_TYPE}
            HOST {set name HTTP_HOST}
        }
    }
}

```

```

COOKIE {set name HTTP_COOKIE}
ACCEPT-ENCODING {set name HTTP_ACCEPT_ENCODING}
default {set name .hdr:$name}
}
dict set W $name $value
}
return 0
}

# Decode the QUERY_STRING
parameters from a GET request or the
# application/x-www-form-urlencoded CONTENT from a POST request.
#
# This routine sets the ".qp" element of the ::wapp dict as a signal
# that query parameters have already been decoded.
#
proc wappInt-decode-query-params {} {
    global wapp
    dict set wapp .qp 1
    if {[dict exists $wapp QUERY_STRING]} {
        foreach qterm [split [dict get $wapp QUERY_STRING] &] {
            set qsplitted [split $qterm =]
            set nm [lindex $qsplitted 0]
            if {[regexp {[a-z][a-z0-9]*} $nm]} {
                dict set wapp $nm [wappInt-decode-url [lindex $qsplitted 1]]
            }
        }
    }
}

if {[dict exists $wapp CONTENT_TYPE] && [dict exists $wapp CONTENT]} {
    set ctype [dict get $wapp CONTENT_TYPE]
    if {$ctype=="application/x-www-form-urlencoded"} {
        foreach qterm [split [string trim [dict get $wapp CONTENT]] &] {
            set qsplitted [split $qterm =]
            set nm [lindex $qsplitted 0]
            if {[regexp {[a-z][-a-z0-9_]*} $nm]} {
                dict set wapp $nm [wappInt-decode-url
[lindex $qsplitted 1]]
            }
        }
    }
} elseif {[string match multipart/form-data* $ctype]} {
    regexp {^(.*?)\r\n(.*?)$} [dict get $wapp CONTENT] all divider body
    set ndiv [string length $divider]
    while {[string length $body]} {
        set idx [string first $divider $body]
        set unit [string range $body 0 [expr {$idx-3}]]
        set body [string range $body [expr {$idx+$ndiv+2}] end]
        if {[regexp {^Content-Disposition: form-data; (.*?)\r\n\r\n(.*?)$} \
$unit unit hdr content] &&

```

```

    [regexp {name="(.*)"; filename="(.*)"\r\nContent-Type: (.*)$}\
    $hdr hr name filename mimetype}] {
dict set wapp $name.filename \
    [string map [list \\\" \" \\\\ \\] $filename]
dict set wapp $name.mimetype $mimetype
dict set wapp $name.content $content
    }
}
}
}
}

# Invoke application-supplied methods to generate a reply to
# a single HTTP request.
#
# This routine always
# runs within [catch], so handle exceptions by
# invoking [error].
#
proc wappInt-handle-request {chan useCgi} {
    global wapp
    dict set wapp .reply {}
    dict set wapp .mimetype {text/html; charset=utf-8}
    dict set wapp .reply-code {200 Ok}
    dict set wapp .csp {default-src 'self'}

    # Set up additional CGI environment values
    #
    if {[dict exists $wapp HTTP_HOST]} {
        dict set wapp BASE_URL {}
    } elseif {[dict exists $wapp HTTPS]} {
        dict set wapp BASE_URL https://[dict get $wapp HTTP_HOST]
    } else {
        dict set wapp BASE_URL http://[dict get $wapp HTTP_HOST]
    }
    if {[dict exists $wapp REQUEST_URI]} {
        dict set wapp REQUEST_URI /
    } elseif {[regsub {\?.*} [dict get $wapp REQUEST_URI] {} newR]} {
        # Some servers (ex: nginx) append the query parameters to REQUEST_URI.
        # These need to be stripped off
        dict set wapp REQUEST_URI $newR
    }
    if {[dict exists $wapp SCRIPT_NAME]} {
        dict append wapp BASE_URL [dict get $wapp SCRIPT_NAME]
    } else {
        dict set wapp
        SCRIPT_NAME {}
    }
}

```

```

if {[dict exists $wapp PATH_INFO]} {
  # If PATH_INFO is missing (ex: nginx) the construct it
  set URI [dict get $wapp REQUEST_URI]
  set skip [string length [dict get $wapp SCRIPT_NAME]]
  dict set wapp PATH_INFO [string range $URI $skip end]
}
if {[regexp {^/(^/)+(.*)$} [dict get $wapp PATH_INFO] all head tail]} {
  dict set wapp PATH_HEAD $head
  dict set wapp PATH_TAIL [string trimleft $tail /]
} else {
  dict set wapp PATH_INFO {}
  dict set wapp PATH_HEAD {}
  dict set wapp PATH_TAIL {}
}
dict set wapp SELF_URL [dict get $wapp BASE_URL]/[dict get $wapp PATH_HEAD]

# Parse query parameters from the query string, the cookies, and
# POST data
#
if {[dict exists $wapp HTTP_COOKIE]} {
  foreach qterm [split [dict get $wapp HTTP_COOKIE] {;}] {
    set qsplit [split [string trim $qterm] =]
    set nm [lindex $qsplit 0]
    if {[regexp {^[a-z][-a-z0-9_]*$} $nm]} {
      dict set wapp $nm [wappInt-decode-url [lindex
$qspl1 1]]
    }
  }
}
set same_origin 0
if {[dict exists $wapp HTTP_REFERER]} {
  set referer [dict get $wapp HTTP_REFERER]
  set base [dict get $wapp BASE_URL]
  if {$referer==$base || [string match $base/* $referer]} {
    set same_origin 1
  }
}
dict set wapp SAME_ORIGIN $same_origin
if {$same_origin} {
  wappInt-decode-query-params
}

# Invoke the application-defined handler procedure for this page
# request. If an error occurs while running that procedure, generate
# an HTTP reply that contains the error message.
#
wapp-before-dispatch-hook
wappInt-trace

```

```

set mname [dict get $wapp PATH_HEAD]
if {[catch {
  if {$mname!=" " && [length [info proc wapp-page-$mname]]>0} {
    wapp-page-$mname
  } else {
    wapp-default
  }
} msg]} {
  if {[wapp-param WAPP_MODE]=="local" || [wapp-param WAPP_MODE]=="server"} {
    puts "ERROR: $::errorInfo"
  }
  wapp-reset
  wapp-reply-code "500 Internal Server Error"
  wapp-mimetype
  text/html
  wapp-trim {
    <h1>Wapp Application Error</h1>
    <pre>%html($::errorInfo)</pre>
  }
  dict unset wapp .new-cookies
}

# Transmit the HTTP reply
#
if {$chan=="stdout"} {
  puts $chan "Status: [dict get $wapp .reply-code]\r"
} else {
  puts $chan "HTTP/1.1 [dict get $wapp .reply-code]\r"
  puts $chan "Server: wapp\r"
  puts $chan "Connection: close\r"
}
if {[dict exists $wapp .reply-extra]} {
  foreach {name value} [dict get $wapp .reply-extra] {
    puts $chan "$name: $value\r"
  }
}
if {[dict exists $wapp .csp]} {
  puts $chan "Content-Security-Policy: [dict get $wapp .csp]\r"
}
set mimetype [dict get $wapp .mimetype]
puts $chan "Content-Type: $mimetype\r"
if {[dict exists $wapp .new-cookies]} {
  foreach {nm val} [dict get $wapp .new-cookies] {
    if {[regexp {[a-z][-a-z0-9_]*}$} $nm]} {
      if {$val==" " } {
        puts $chan "Set-Cookie: $nm=; HttpOnly; Path=/; Max-Age=1\r"
      } else {
        set
      }
    }
  }
}

```



```

val [wappInt-enc-url $val]
    puts $chan "Set-Cookie: $nm=$val; HttpOnly; Path=^r"
    }
    }
}
}
if {[string match text/* $mimetype]} {
    set reply [encoding convertto utf-8 [dict get $wapp .reply]]
    if {[regexp {\ygzip\y} [wapp-param HTTP_ACCEPT_ENCODING]]} {
        catch {
            set x [zlib gzip $reply]
            set reply $x
            puts $chan "Content-Encoding: gzip\r"
        }
    }
} else {
    set reply [dict get $wapp .reply]
}
puts $chan "Content-Length: [string length $reply]\r"
puts $chan \r
puts $chan $reply
flush $chan
wappInt-close-channel $chan
}

```

```

# This routine runs just prior to request-handler dispatch. The
# default implementation is a no-op, but applications can override
# to do additional transformations or checks.

```

```

#
proc wapp-before-dispatch-hook {} {return}

```

```

# Process a single CGI request

```

```

#
proc wappInt-handle-cgi-request {} {
    global wapp env
    foreach key {
        CONTENT_LENGTH
        CONTENT_TYPE
        DOCUMENT_ROOT
        HTTP_ACCEPT_ENCODING
        HTTP_COOKIE
        HTTP_HOST
        HTTP_REFERER
        HTTP_USER_AGENT
        HTTPS
        PATH_INFO
        QUERY_STRING
        REMOTE_ADDR
    }
}

```

```

REQUEST_METHOD
REQUEST_URI
REMOTE_USER
SCRIPT_FILENAME
SCRIPT_NAME
SERVER_NAME
SERVER_PORT
SERVER_PROTOCOL
} {
  if {[info exists env($key)]} {
    dict set wapp $key $env($key)
  }
}
set len 0
if {[dict exists $wapp CONTENT_LENGTH]} {
  set len [dict get $wapp CONTENT_LENGTH]
}
if {$len>0} {
  fconfigure stdin -translation binary
  dict set wapp CONTENT [read stdin $len]
}
dict set wapp WAPP_MODE cgi
fconfigure stdout -translation binary
wappInt-handle-request stdout 1
}

# Process new text received on an inbound SCGI request
#
proc wappInt-scgi-readable {chan} {
  if {[catch [list wappInt-scgi-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}
proc wappInt-scgi-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if
  {![dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header.
    #
    # An SGI header is short. This implementation assumes the entire
    # header is available all at once.
    #
    set req [read $chan 15]
    set n [string length $req]
    scan $req %d:%s len hdr
    incr len [string length "$len:."]
  }
}

```

```

append hdr [read $chan [expr {$len-15}]]
foreach {nm val} [split $hdr \000] {
    if {$nm==","} break
    dict set W $nm $val
}
set len 0
if {[dict exists $W CONTENT_LENGTH]} {
    set len [dict get $W CONTENT_LENGTH]
}
if {$len>0} {
    # Still need to read the query content
    dict set W .toread $len
} else {
    # There is no query content, so handle the request immediately
    set wapp $W
    wappInt-handle-request $chan 0
}
} else {
    # If .toread is set, that means we are reading the query content.
    # Continue reading until .toread reaches zero.
    set got [read
$chan [dict get $W .toread]]
    dict append W CONTENT $got
    dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
    if {[dict get $W .toread]<=0} {
        # Handle the request as soon as all the query content is received
        set wapp $W
        wappInt-handle-request $chan 0
    }
}
}

# Start up the wapp framework. Parameters are a list passed as the
# single argument.
#
# -server $PORT      Listen for HTTP requests on this TCP port $PORT
#
# -local $PORT      Listen for HTTP requests on 127.0.0.1:$PORT
#
# -scgi $PORT       Listen for SCGI requests on TCP port $PORT
#
# -cgi              Handle a single CGI request
#
# With no arguments, the behavior is called "auto". In "auto" mode,
# if the GATEWAY_INTERFACE environment variable indicates CGI, then run
# as CGI. Otherwise, start an HTTP server bound to the loopback address
# only, on an arbitrary TCP port, and automatically launch a web browser
# on that TCP port.

```

```

#
# Additional
# options:
#
# -trace          "puts" each request URL as it is handled, for
#                 debugging
#
# -lint          Run wapp-safety-check on the application instead
#                 of running the application itself
#
# -Dvar=value     Set TCL global variable "var" to "value"
#
#
proc wapp-start {arglist} {
    global env
    set mode auto
    set port 0
    set n [llength $arglist]
    for {set i 0} {$i<$n} {incr i} {
        set term [lindex $arglist $i]
        if {[string match --* $term]} {set term [string range $term 1 end]}
        switch -glob -- $term {
            -server {
                incr i;
                set mode "server"
                set port [lindex $arglist $i]
            }
            -local {
                incr i;
                set mode "local"
                set port [lindex $arglist $i]
            }
            -scgi {
                incr i;
                set mode "scgi"
                set port [lindex $arglist $i]
            }
            -cgi {
                set mode "cgi"
            }
            -trace {
                proc wappInt-trace {} {
                    set q [wapp-param QUERY_STRING]
                    set uri [wapp-param BASE_URL][wapp-param PATH_INFO]
                    if {$q!=""} {append uri ?$q}
                    puts $uri
                }
            }
        }
    }
}

```

```

}
-lint {
    set res [wapp-safety-check]
    if {$res!=""} {
        puts "Potential problems in this code:"
        puts $res
        exit 1
    } else {
        exit
    }
}
-D*=* {
    if {[regexp {^D([^\=]+)=(.*)$} $term all var val]} {
        set ::$var $val
    }
}
default {
    error "unknown option: $term"
}
}
}
if {$mode=="auto"
    && [info exists env(GATEWAY_INTERFACE)]
    && [string match CGI/1.* $env(GATEWAY_INTERFACE)]
|| $mode=="cgi"
} {
    wappInt-handle-cgi-request
    return
}
if {$mode=="scgi"} {
    wappInt-start-listener $port scgi
} elseif {$mode=="server"} {
    wappInt-start-listener $port server
} else {
    wappInt-start-listener $port local
}
vwait ::forever
}

# Call this version
1.0
package provide wapp 1.0

#### End of wapp.tcl

# Generate all header content for the output document
#
proc search_header {} {

```

```

wapp-trim {
<!DOCTYPE html>
<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="sqlite.css" rel="stylesheet">
<title>Search SQLite Documentation</title>
<!-- path= -->
</head>
<body>
<div class=nosearch>
<a href="index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='about.html'>About</a>
<li class='desktoponly'><a href="docs.html">Documentation</a>
<li class='desktoponly'><a href="download.html">Download</a>
<li
class='wideonly'><a href='copyright.html'>License</a>
<li class='desktoponly'><a href="support.html">Support</a>
<li class='desktoponly'><a href="prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='about.html'>About</a>
<li><a href='docs.html'>Documentation</a>
<li><a href='download.html'>Download</a>
<li><a href='support.html'>Support</a>
<li><a href='prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>

```

```

<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block"
){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){ div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display
= "";
b.innerHTML='hide';
}
return false;
}
</script>

```

```

</div>
}
}

#-----
# Add an entry to the log database for the current query. Which
# returns $nRes results.
#
proc search_add_log_entry {nRes} {
    if {[wapp-param-exists donotlog]} return
    sqlite3 db2 [file dir [wapp-param SCRIPT_FILENAME]]/search.d/searchlog.db
    db2 timeout 10000
    set ip [wapp-param REMOTE_ADDR]
    set query [wapp-param q]
    db2 eval {
        PRAGMA synchronous=OFF;
        PRAGMA journal_mode=OFF;
        BEGIN;
        CREATE TABLE IF NOT EXISTS log(
            ip,          -- IP query was made from
            query,       -- Fts5 query string
            nres,        -- Number of results
            timestamp DEFAULT CURRENT_TIMESTAMP
        );
        INSERT INTO log(ip, query, nres) VALUES($ip, $query, $nRes);
        COMMIT;
    }
    db2 close
}

#-----
# This command
# is similar to the builtin Tcl [time] command, except that
# it only ever runs the supplied script once. Also, instead of returning
# a string like "xxx microseconds per iteration", it returns "x.yy ms" or
# "x.yy s", depending on the magnitude of the time spent running the
# command. For example:
#
# % time {after 1500}
# 1.50 s
# % time {after 45}
# 45.02 ms
#
proc ttime {script} {
    set t [lindex [time [list uplevel $script]] 0]
    if {$t>1000000} { return [format "%.2f s" [expr {$t/1000000.0}]] }
    return [format "%.2f ms" [expr {$t/1000.0}]]
}

```



```

#-----
# Do a search of the change log
#
proc searchchanges { } {
  set q [wapp-param q]
  if {$q==""} {return {}}
  if {[regexp -all \x22 $q] % 2} { append q \x22 }
  set x ""
  foreach word [split $q " "] {
    append x "\[string map [list "" "\"] $word]"
  }
  set q [string trim $x]
  set open {<span style="background-color:#d9f2e6">}
  set close {</span>}
  set query {
    SELECT url, version, idx, highlight(change, 3, $open, $close) AS text
    FROM change($q) ORDER BY rowid ASC
  }
  wapp-trim {
    <p>Change log entries mentioning: <b>%html($q)</b>
    <table border=0>
  }
  set s2 "style=\"margin-top:0\""
  set s1 "style=\"font-size:larger; text-align:left\" class=nounderline"
  set prev ""
  db eval $query {
    if {$prev!=$version} {
      wapp-trim {
        <tr> <td %unsafe($s1) valign=top> <a href='%url($url)'>%html($version)</a>
        <td> <ul %unsafe($s2)>
      }
      set prev $version
    }
    wapp-subst {<li value=%html($idx)> (%html($idx)) %unsafe($text)\n}
  }
  wapp-trim {
    </table>
    <center><p>You can also see the <a href=changes.html>entire
    changelog as a single page</a> if you wish.</center>
  }
}

#-----
# Do a search over all documentation other than the change log
#
proc searchresults { } {
  set q [wapp-param q]

```

```

if {$q==""} {return
""}

# Count the "" characters in $::A(q). If there is an odd number of
# occurrences, add a " to the end of the query so that fts5 can parse
# it without error.
if {[regexp -all \x22 $q] % 2} { append q \x22 }

# Set iStart to the index of the first result to display. Results are
# indexed starting at zero from most to least relevant.
#
set iStart 0
catch {set iStart [expr {[wapp-param i 0]*10}]}

# Grab a list of rowid results.
#
set sql {
SELECT rowid FROM page WHERE page MATCH $q
ORDER BY srnk(page) DESC,
rank * COALESCE(
(SELECT percent FROM weight WHERE id=page.rowid), 100
);
}
if {[catch { set IRowid [db eval $sql] }] } {
set x ""
foreach word [split $q " "] {
append x " \"[string map [list "\"" "\\""] $word]\""
}
set q [string trim $x]
set IRowid [db eval $sql]
}

set IRes [list]
foreach rowid $IRowid {
if {$rowid > 1000} {
set parent [expr $rowid / 1000]
lappend subsections($parent)
$rowid
} else {
lappend IRes $rowid
}
}

set nRes [llength $IRes]
set IRes [lrange $IRes $iStart [expr $iStart+9]]

# Add an entry to the log database.
#

```

```

search_add_log_entry $nRes

# If there are no results, return a message to that effect.
#
if {[length $iRes] == 0} {
  wapp-subst {<p>No Results for: <b>%html($q)</b>\n}
}

# HTML markup used to highlight keywords within FTS5 generated snippets.
#
set open {<span style="background-color:#d9f2e6">}
set close {</span>}
set ellipsis {<b>&nbsp;&nbsp;&nbsp;...&nbsp;&nbsp;&nbsp;</b>}

# Grab the required data
#
db eval [string map [list %LIST% [join $iRowid ,]] {
  SELECT
    rowid AS parentid,
    snippet(page, 0, $open, $close, $ellipsis, 6) AS s_apis,
    snippet(page, 2, $open, $close, ", 40) AS s_title1,
    snippet(page, 3, $open, $close, $ellipsis, 40) AS s_title2,
    snippet(page, 4, $open, $close, $ellipsis, 40) AS s_content,
    url, rank
  FROM page($q)
  WHERE rowid
  IN (%LIST%)
}] X {
  foreach k [array names X] { set data($X(parentid),$k) [set X($k)] }
}

set i1 [expr {$iStart+1}]
set i2 [expr {($nRes < $iStart+10) ? $nRes : $iStart+10}]
wapp-trim {
  <table border=0>
  <p>Search results %html($i1)..%html($i2) of %html($nRes) for: <b>%html($q)</b>
}

foreach rowid $iRes {

  foreach a {parentid s_apis s_title1 s_content url rank} {
    set $a $data($rowid,$a)
  }

  if {[info exists subsections($parentid)]} {
    set childid [lindex $subsections($parentid) 0]
    set link $data($childid,url)
    set hdr $data($childid,s_title2)
  }
}

```

```

if {$hdr==""} {
  set s_content ""
} else {
  set s_content [subst {
    <b><a style=color:#044a64 href=$link>$hdr</a></b>
  }]
}

append s_content " $data($childid,s_content)"
}

wapp-trim {<tr>
  <td valign=top style="line-height:150%">
  <div style="white-space:wrap;font-size:larger" class=nounderline>
    <a href="%url($url)">%unsafe($s_title1)</a>

    <div style="float:right;font-size:smaller;color:#BBB">(%url($url))</div>
  </div>
  <div style="margin-left: 10ex; font:larger monospace">%unsafe($s_apis)</div>
  <div style="margin-left: 4ex; margin-bottom:1.5em">
    %unsafe($s_content)
  </div>
</td>
}
}
wapp-subst {</table>\n}

# If the query returned more than 10 results, add up to 10 links to
# each set of 10 results (first link to results 1-10, second to 11-20,
# third to 21-30, as required).
#
if {$nRes>10} {
  set s(0) {border:solid #044a64 1px;padding:1ex;margin:1ex;line-height:300%;}
  set s(1) "$s(0);background:#044a64;color:white"
  wapp-subst {<center><p>\n}
  for {set i 0} {$i < 10 && ($i*10)<$nRes} {incr i} {
    set style $s([expr {(($iStart/10)==$i)])
    wapp-trim {
      <a style="%html($style)"
        href="search?q=%qp($q)&i=%qp($i)">%html([expr $i+1])</a>
    }
  }
  wapp-subst {</center>\n}
}
}

```

```

# This is the main entry point into the search result page generator
#
proc wapp-default {} {
  wapp-content-security-policy {default-src 'self' 'unsafe-inline'}
  wapp-allow-xorigin-params
  if {[wapp-param-exists env]} {
    search_header
    wapp-trim {
      <h1>Environment Dump For Debugging</h1>
      <pre>%html([wapp-debug-env])</pre>
    }
    return
  }

  # When running using the built-in webserver in Wapp (in other words,
  # when not running as CGI) any filename that contains a "." loads
  # directly from the filesystem.
  if {[wapp-param WAPP_MODE]!="cgi"
    && [string match *.* [wapp-param PATH_INFO]]
  } {
    set altfile [file dir [wapp-param SCRIPT_FILENAME]][wapp-param PATH_INFO]
    set fd [open $altfile rb]
    fconfigure $fd -translation binary
    wapp-unsafe [read $fd]
    close $fd
    switch -glob -- $altfile {
      *.html {
        wapp-mimetype text/html
      }
      *.css {
        wapp-mimetype text/css
      }
      *.gif {
        wapp-mimetype
image/gif
      }
    }
    return
  }

  search_header
  sqlite3 db [file dir [wapp-param SCRIPT_FILENAME]]/search.d/search.db
  set searchType [wapp-param s d]
  if {$searchType=="c"} {
    set cmd searchchanges
  } else {
    set cmd searchresults
  }
}

```

```

db transaction {
  set t [itime {$cmd}]
}
wapp-trim {
  <center>
  <p>Page generated by <a href='fts5.html'>FTS5</a> in about %html($t).
  </center>
  <script>
  window.addEventListener('load', function() {
    var w = document.getElementById("searchmenu");
    w.style.display = "block";
    w = document.getElementById("searchtype");
    w.value = "%string($searchType)"
    setTimeout(function(){
      var s = document.getElementById("searchbox");
      s.value = "%string([wapp-param q])"
      s.focus();
      s.select();
    }, 30);
  });
  </script>
}
}
wapp-start $argv

```

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/search
 No license file was found, but licenses were detected in source scan.

data, so do not send the ".fullschema" output of a proprietary database

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/cli.html
 No license file was found, but licenses were detected in source scan.

application is free to use the same database connection or the

Found in path(s):

* /opt/cola/permits/1143446940_1615628662.26/0/sqlite3-3-31-1-orig-www-1-tar-xz/www/capi3ref.html
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1.198 cpp 10.2.0-5ubuntu1~20.04

1.198.1 Available under license :

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

Preamble

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

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into

proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or

any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a. The modified work must itself be a software library.
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- c. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License,

whose permissions

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on

a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

If distribution of object code is made by offering access to copy

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

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

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

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

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

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

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

the modified definitions.)

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

performing this distribution.

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

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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries

that do not normally

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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

for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the

freedom of users.

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

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@item Source Code.

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

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

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

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@item

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Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.200 bolt 1.3.1

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1.201 asm 5.0.3

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/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *     the
method visitor to which this adapter delegates calls.
 * @param access
 *     the method's access flags (see {@link Opcodes}).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
*/

```

Found in path(s):

```

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*/

/**

* Constructs a new {@link ClassNode}. *Subclasses must not use this
* constructor*. Instead, they must use the {@link #ClassNode(int)}
* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/ClassNode.java

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/**
```

```
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
```

```
 * @param typeRef
 *       a reference to the annotated type. See {@link TypeReference}.
```

```
 * @param typePath
 *       the path to the annotated type argument, wildcard bound, array
 *       element type, or static inner type within 'typeRef'. May be
 *       <tt>null</tt> if the annotation targets 'typeRef' as a whole.
```

```
 * @param start
 *       the first instructions corresponding to the continuous ranges
 *       that make the scope of this local variable (inclusive).
```

```
 * @param end
 *       the last instructions corresponding to the continuous ranges
 *       that make the scope of this local variable (exclusive). This
 *       array must have the same size as the 'start' array.
```

```
 * @param index
 *       the local variable's index in each range. This array must have
 *       the same size as the 'start' array.
```

```
 * @param desc
 *       the class descriptor of
the annotation class.
```

```
*/
```

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```
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jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
```

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```
/**
```

```
 * ASM XML Adapter
```

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 *
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- jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
- * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
- jar/org/objectweb/asm/xml/SAXClassAdapter.java
- * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
- jar/org/objectweb/asm/xml/SAXCodeAdapter.java
- *
- /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
- jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/xml/Processor.java
- * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
- jar/org/objectweb/asm/xml/ASMContentHandler.java
- * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
- jar/org/objectweb/asm/xml/SAXAdapter.java

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/**

* Creates a new JSRInliner. *<i>*Subclasses must not use this

* constructor*</i>*. Instead, they must use the

* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.

*

* @param mv

*

the `MethodVisitor` to send the resulting inlined

* method code to (use `null` for none).

* @param access

* the method's access flags (see { @link Opcodes}). This

* parameter also indicates if the method is synthetic and/or

```

*      deprecated.
* @param name
*      the method's name.
* @param desc
*      the method's descriptor (see { @link Type}).
* @param signature
*      the method's signature. May be <tt>null</tt>.
* @param exceptions
*      the internal names of the method's exception classes (see
*      { @link Type#getInternalName() getInternalName}). May be
*      <tt>null</tt>.
* @throws IllegalStateException
*      If a subclass calls this constructor.
*/

```

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```

```

* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/shrink-
writer.properties

```

```

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frames.properties

```

```

*

```

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signatures.properties

```

```

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```

```

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- jar/org/objectweb/asm/signature/package.html
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- *
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- jar/org/objectweb/asm/commons/package.html
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*/

/**

* Constructs a new { @link Textifier}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the { @link #Textifier(int)}
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):

* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/Textifier.java

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* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/FieldVisitor.java
*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/MethodInsnNode.java
*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/MethodWriter.java
*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/CheckClassAdapter.java

* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/Printer.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Attribute.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/VarInsnNode.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/Subroutine.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/BasicValue.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/AdviceAdapter.java
 *
 /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/IntInsnNode.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/signature/SignatureWriter.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/LabelNode.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/InsnList.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
 *
 /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/Method.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/JarOptimizer.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Handle.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/Frame.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/JumpInsnNode.java
 *
 /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
 * /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-

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jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/LdcInsnNode.java
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/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
*

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/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/optimizer/NameMapping.java
*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/tree/analysis/Analyzer.java

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*
/opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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```
/**
```

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*
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```

```
*/
```

```
/**
```

```
* Creates a new {@link AnalyzerAdapter}. Subclasses must not use this
* constructor. Instead, they must use the
* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
```

```
*
```

```
* @param owner
```

```

*
  the owner's class name.
* @param access
*   the method's access flags (see { @link Opcodes }).
* @param name
*   the method's name.
* @param desc
*   the method's descriptor (see { @link Type Type }).
* @param mv
*   the method visitor to which this adapter delegates calls. May
*   be <tt>null</tt>.
* @throws IllegalStateException
*   If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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/**

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* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/Textifiable.java

* /opt/cola/permits/1145844426_1616452852.22/0/asm-5-0-3-sources-10-jar/org/objectweb/asm/util/ASMifiable.java

1.202 lann-ps 0.0.0-20150810152359-62de8c46ede0

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1.205 libsemanage-common 2.8-2

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1.206 gosqlite 1.11.0

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```
* /opt/cola/permits/1128636748_1611969986.0/0/golang-gosqlite-dev-0-0-hg20130601-orig-tar-gz/gosqlite/sqlite/sqlite.go
* /opt/cola/permits/1128636748_1611969986.0/0/golang-gosqlite-dev-0-0-hg20130601-orig-tar-gz/gosqlite/sqlite3/driver.go
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1.207 guava 18.0

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```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/math/MathPreconditions.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingTable.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableEnumSet.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AbstractIndexedListIterator.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ComputationException.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/HostSpecifier.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/Callables.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Splitter.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-

jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/AbstractIdleService.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-

jar/com/google/common/collect/SingletonImmutableList.java
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/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/ByteArrayDataInput.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/RegularImmutableList.java
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```
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
* hereby
disclaims copyright to this source code.
*/
```

Found in path(s):

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/SmallCharMatcher.java
```

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* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/Flushables.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingList.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractIterator.java
```

```
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ReverseOrdering.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/LexicographicalOrdering.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ComparatorOrdering.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
```

jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/AbstractFuture.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractMultiset.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/MapConstraints.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/LinkedHashMultimap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/Files.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AbstractMapBasedMultimap.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Objects.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Function.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EmptyImmutableSet.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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*
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/Suppliers.java
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/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/LineReader.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingSet.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/eventbus/EventSubscriber.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/package-info.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ObjectArrays.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RegularImmutableSet.java

*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/eventbus/DeadEvent.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/MapMaker.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RegularImmutableTable.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/Striped64.java

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* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RangeMap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/FilteredKeyListMultimap.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/html/package-info.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingImmutableList.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingImmutableMap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EmptyImmutableSortedMap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RegularImmutableAsList.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/FilteredSetMultimap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableEnumMap.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/LongAddables.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/Invokable.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/escape/package-info.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/FilteredEntrySetMultimap.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/TransformedListIterator.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/AbstractInvocationHandler.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingNavigableSet.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/Closer.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/CharSource.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/TreeTraverser.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/ByteSink.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ServiceManager.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/TypeToInstanceMap.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/ClassPath.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AbstractNavigableMap.java
 *
 /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/TreeRangeMap.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/RateLimiter.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/Parameter.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RegularImmutableSortedMap.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/ByteSource.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingDeque.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AllEqualOrdering.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingNavigableMap.java
 *
 /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/package-info.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EvictingQueue.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/SortedMultisetBridge.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/LongAddable.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/FilteredKeySetMultimap.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/TypeCapture.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/FileWriteMode.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingBlockingDeque.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-

jar/com/google/common/reflect/Element.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/CharSink.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/AsyncSettableFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/BinaryTreeTraverser.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/AbstractByteHasher.java
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class.
*/
```

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```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/Striped.java
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```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/BoundType.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/Murmur3_32HashFunction.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/hash/Funnel.java
*
```

```
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/hash/Hasher.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/AbstractHasher.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/Hashing.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/PrimitiveSink.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/HashCode.java
```

```
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
```

```
jar/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/RegularContiguousSet.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/AbstractStreamingHashFunction.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableRangeSet.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/hash/ChecksumHashFunction.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/CaseFormat.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-

jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/io/PatternFilenameFilter.java

*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/TimeLimiter.java

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- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/Chars.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/escape/Escaper.java
- *
- /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Stopwatch.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Serialization.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/Floats.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/PercentEscaper.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/HashBasedTable.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableMapValues.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/UnmodifiableIterator.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/FileBackedOutputStream.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableCollection.java
- *
- /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/TreeBasedTable.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Converter.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableBiMap.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/escape/UnicodeEscaper.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableMap.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/PeekingIterator.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ListenableFutureTask.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
- *

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EmptyImmutableSortedSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableMapKeySet.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EmptyImmutableBiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Table.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/SerializingExecutor.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-

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jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/EmptyImmutableListMultimap.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/primitives/Booleans.java
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- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/GwtTransient.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RegularImmutableMultiset.java
- *
- /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/ForwardingLoadingCache.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ExecutionError.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AsyncFunction.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/package-info.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/PairwiseEquivalence.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/Uninterruptibles.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Optional.java
- *
- /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/ForwardingCache.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/TypeParameter.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/WellBehavedMap.java
- * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/math/package-info.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/math/LongMath.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/HostAndPort.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
 *
 /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/AbstractLoadingCache.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/WrappingExecutorService.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/CacheBuilderSpec.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AbstractScheduledService.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/math/BigIntegerMath.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/RemovalNotification.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AtomicLongMap.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
 *
 /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/RemovalListeners.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/HttpHeaders.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/math/DoubleUtils.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/math/DoubleMath.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/FutureFallback.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/MediaType.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/RemovalCause.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/LoadingCache.java
 *
 /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Present.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Ticker.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/CacheStats.java
 * /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-

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jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
*
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/FutureCallback.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/Runnables.java
*
```

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/reflect/TypeVisitor.java
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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/EnumMultiset.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Preconditions.java
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jar/com/google/common/reflect/Reflection.java

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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/util/concurrent/ListenerCallQueue.java

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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/ParseRequest.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/Count.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableSortedMultiset.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/SortedIterable.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/UnsignedLongs.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/UnsignedInteger.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/UnsignedInts.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/AbstractRangeSet.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/primitives/UnsignedLong.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/SortedIterables.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ForwardingSortedMultiset.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/GeneralRange.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/RegularImmutableSortedMultiset.java

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jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/VerifyException.java

*

/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Verify.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Utf8.java

* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractTable.java

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* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/collect/ComputingConcurrentHashMap.java

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jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Strings.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/primitives/package-info.java
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jar/com/google/common/collect/ForwardingSortedSetMultimap.java
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jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/RowSortedTable.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/MinMaxPriorityQueue.java
*
/opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1150903371_1617718446.63/0/guava-18-0-sources-4-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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1.208 getopt-long 0.1.0

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1.209 etc 1.1.0

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1.228 psych 3.1.0

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1.229 ostruct 0.2.0

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1.230 racc 1.4.16

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1.231 observer 0.1.0

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1.232 tracer 0.1.0

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1.233 time-out 0.1.0

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1.234 stringio 0.1.0

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1.235 singleton 0.1.0

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1.236 strscan 1.0.3

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1.237 uri 0.10.0

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1.238 dsnet-compress 0.0.1

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1.239 properties 1.8.1

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1.241 fsnotify 1.4.7

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1.242 mitchellh-mapstructure 1.1.2

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```

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Ty Coon, President of Vice
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1.244 x-crypto 0.0.0-20200622213623- 75b288015ac9

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1.245 rdoc 6.2.1

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1.246 bigdecimal 2.0.0

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1.247 dbm 1.1.0

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1.248 power-assert 1.1.7

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1.249 backport 3.18.2

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1.250 json-pure 1.8.6

1.250.1 Available under license :

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2017-01-13 (1.8.6)

- * Be compatible with ancient ruby 1.8 (maybe?)

2015-09-11 (1.8.5)

- * Be compatible with ruby 2.4.0

- * There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions \geq 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

----- (1.8.4) Skipped.

2015-06-01 (1.8.3)

- * Fix potential memory leak, thx to nobu.

2015-01-08 (1.8.2)

- * Some performance improvements by Vipul A M <vipulnsward@gmail.com>.

- * Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of JSON.dump_default_options.

- * More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing space_before accessor in generator.

- * Performance on Jruby improved by Ben Browning <bbrownin@redhat.com>.

- * Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

2013-05-13 (1.8.1)

- * Remove Rubinius exception since transcoding should be working now.

2013-05-13 (1.8.0)

- * Fix <https://github.com/flori/json/issues/162> reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!

- * Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.

- * Applied patch by ginriki@github to remove unnecessary if.

- * Add load/dump interface to JSON::GenericObject to make serialize :some_attribute, JSON::GenericObject work in Rails active models for convenient SomeModel#some_attribute.foo.bar access to serialised JSON data.

2013-02-04 (1.7.7)

- * Security

fix for JSON create_additions default value and JSON::GenericObject. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If JSON::GenericObject is supposed to be automatically deserialised, this has to be explicitly enabled by

setting
JSON::GenericObject.json_creatable = true
as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to <https://github.com/flori/json/issues#issue/155>
provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

2012-11-29 (1.7.6)
* Add GeneratorState#merge alias for JRuby, fix state accessor methods. Thx to
jvshahid@github.
* Increase hash likeness of state objects.

2012-08-17 (1.7.5)
* Fix compilation
of extension on older rubies.

2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see <https://github.com/flori/json/issues/142>

2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the
extension variant in jruby 1.9 mode.

2012-04-28 (1.7.1)
* Some small fixes for building

2012-04-28 (1.7.0)
* Add JSON::GenericObject for method access to objects transmitted via JSON.

2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting
everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo
<tom.enebo@gmail.com>), should fix
<https://github.com/flori/json/issues#issue/119>.
* Fix <https://github.com/flori/json/issues#issue/124> Thx to Jason Hutchens.
* Fix <https://github.com/flori/json/issues#issue/117>

2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using
optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda
<bkaabda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and
developing a patch fix.

2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter
<headius@headius.com>.
* Support object_class/array_class with duck typed hash/array.

2011-12-01 (1.6.3)
* Let JSON.load("") return nil as well to make mysql text columns (default to
"") work better for serialization.

2011-11-21 (1.6.2)

- * Add support for OpenStruct and BigDecimal.
 - * Fix bug when parsing nil in quirks_mode.
 - * Make JSON.dump and JSON.load methods better cooperate with Rails' serialize method. Just use: serialize :value, JSON
 - * Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
 - * Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in: <https://github.com/flori/json/pull/103>
- 2011-09-18 (1.6.1)
- * Using -target 1.5 to force Java bits to compile with 1.5.
- 2011-09-12 (1.6.0)
- * Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
 - * Split json/add/core into different files for classes to be serialised.
- 2011-08-31 (1.5.4)
- * Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
 - * Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in <https://github.com/flori/json/issues/46>.
 - * Add :quirks_mode option to parser and generator.
 - * Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.
- 2011-06-20 (1.5.3)
- * Alias State#configure method as State#merge to increase duck type synonymy with Hash.
 - * Add as_json methods in json/add/core, so rails can create its json objects the new way.
- 2011-05-11 (1.5.2)
- * Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
 - * Add gemspecs for json and json_pure.
 - * Fix bug in jruby pretty printing.
 - * Fix bug in object_class and array_class when inheriting from Hash or Array.
- 2011-01-24 (1.5.1)
- * Made rake-compiler build a fat binary gem. This should fix issue <https://github.com/flori/json/issues#issue/54>.
- 2011-01-22 (1.5.0)
- * Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
 - * Output full exception message of deep_const_get to aid debugging.
 - * Fixed an issue with ruby 1.9 Module#const_defined? method, that was reported by Riley Goodside.
- 2010-08-09 (1.4.6)
- * Fixed oversight reported in <http://github.com/flori/json/issues/closed#issue/23>, always create a new object from the state prototype.
 - * Made pure and ext api more similar again.
- 2010-08-07 (1.4.5)
- * Manage data structure nesting depth in state object during generation. This

should reduce problems with to_json method
definitions that only have one
argument.

- * Some fixes in the state objects and additional tests.

2010-08-06 (1.4.4)

- * Fixes build problem for rubinius under OS X, <http://github.com/flori/json/issues/closed#issue/25>
- * Fixes crashes described in <http://github.com/flori/json/issues/closed#issue/21> and <http://github.com/flori/json/issues/closed#issue/23>

2010-05-05 (1.4.3)

- * Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
- * Fixed issue <http://github.com/flori/json/issues/#issue/20> reported by electronicwhisper@github. Thx!

2010-04-26 (1.4.2)

- * Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
- * Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extensiontask is not present.
- * Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
- * Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

2010-04-25 (1.4.1)

- * Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

2010-04-23 (1.4.0)

- * Major speed improvements and building with simplified directory/file-structure.
- * Extension should at least be compatible with MRI, YARV and Rubinius.

2010-04-07 (1.2.4)

- * Trigger const_missing callback to make Rails' dynamic class loading work.

2010-03-11 (1.2.3)

- * Added a State#[] method which returns an attribute's value in order to increase duck type compatibility to Hash.

2010-02-27 (1.2.2)

- * Made some changes to make the building of the parser/generator compatible to Rubinius.

2009-11-25 (1.2.1)

- * Added :symbolize_names option to Parser, which returns symbols instead of strings in object names/keys.

2009-10-01 (1.2.0)

- * fast_generate now raises an exception for nan and infinite floats.
- * On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
- * Better documentation

2009-08-23 (1.1.9)

* Added forgotten main doc file extra_rdoc_files.

2009-08-23 (1.1.8)

* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.

* Applied patch by okkez_ in order to fix Ruby Bug #1768:
<http://redmine.ruby-lang.org/issues/show/1768>.

* Finally got around to avoid the rather paranoid escaping of `?` characters in the generator's output. The parsers aren't affected by this change.

Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

2009-06-29 (1.1.7)

* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.

* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

2009-05-10 (1.1.6)

* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

2009-05-10 (1.1.5)

* Started to build gems with rake-compiler gem.

* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

2009-04-01 (1.1.4)

* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.

* Deleted tests/runner.rb, we're using testrb instead.

* Editor supports Infinity in numbers now.

* Made some

changes in order to get the library to compile/run under Ruby 1.9.

* Improved speed of the code path for the fast_generate method in the pure variant.

2008-07-10 (1.1.3)

* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.

* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.

* Supports ragel >= 6.0 now.

* Corrected some tests.

* Some minor changes.

2007-11-27 (1.1.2)

* Remember default dir (last used directory) in editor.

- * JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
- * Load json texts from an URL pasted via middle button press.
- * Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
- * Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
- * Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

2007-07-06 (1.1.1)

- * Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
- * Introduced a JSON.parse! method without depth checking for people who like danger.
- * Made generate and pretty_generate methods configurable by an options hash.
- * Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
- * Fixed some more tests for Ruby 1.9.
- * Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
- * Implemented the max_nesting feature for generate methods, too.
- * Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

2007-05-21 (1.1.0)

- * Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
- * Piers Cawley <pdcauley@bofh.org.uk> reported a bug, that not every character can be escaped by ?\ as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
- * Extended license to Ruby License, which includes the GPL.
- * Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

2007-05-09 (1.0.4)

- * Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile

under Ruby 1.9. Thank you very much for mailing it to me!

- * Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

2007-03-24 (1.0.3)

- * Improved performance of pure variant a bit.
- * The ext variant of this release supports the mswin32 platform. Ugh!

2007-03-24 (1.0.2)

- * Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

2007-03-24

(1.0.1)

- * Forgot some object files in the build dir. I really like that - not!

2007-03-24 (1.0.0)

- * Added C implementations for the JSON generator and a ragel based JSON parser in C.
- * Much more tests, especially fixtures from json.org.
- * Further improved conformance to RFC4627.

2007-02-09 (0.4.3)

- * Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object "{ ... }" or array "[...]" in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby ([\t\r\n]), and there are differences in floats and integers (no octals or hexadecimals) as well.
- * Added aliases generate and pretty_generate of unparse and pretty_unparse.
- * Fixed a test case.
- * Catch an Iconv::InvalidEncoding exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

2006-08-25 (0.4.2)

- * Fixed a bug in handling solidi (/characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

2006-02-06 (0.4.1)

- * Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

2005-09-23 (0.4.0)

- * Initial Rubyforge Version

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* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/CHANGES

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/* Portions of the Selector class are derived from Jack Slocum's DomQuery,
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* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/GeneratorService.java

* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/RuntimeInfo.java

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* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/StringDecoder.java

* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/GeneratorState.java

* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/StringEncoder.java

*

/opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/OptionsReader.java

* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/ByteListTranscoder.java

* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/Utils.java

* /opt/cola/permits/1155784905_1619044752.12/0/json-pure-1-8-6-1-gem/data-tar-gz/java/src/json/ext/Parser.java

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1.251 cabin 0.9.0

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1.252 mustache 0.99.8

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1.253 child-process 0.9.0

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1.254 pleaserun 0.0.31

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1.255 dotenv 2.7.6

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1.256 Iz4 1.8.3-1+deb10u1

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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LIBGCRYPT Werner Koch 2001-06-07

Assigns past and future changes.

Assignment for future changes terminated on 2012-12-04.

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GNUPG Matthew Skala 1998-08-10

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GNUPG Natural Resources Canada 1998-08-11

Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17

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GNUPG Niklas Hernaes 1998-09-18

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

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past and future changes. (new: src/libcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

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LIBGCRYPT Vladimir Serbinenko 2012-04-26
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Most of the stuff in mpi has been taken from an old GMP library
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Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
sergi at calcurco dot org.

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1.266 pcre 10.34-7

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1.267 apt 1.8.2.3

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

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Any

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DRuntime: Runtime Library for the D Programming Language

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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Version 3, 29 June 2007

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-----	-----
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1.270 tdb 1.44.5

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

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

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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

```
all:: image
```

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)  
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)  
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS_SHLIB) $(OBJS))  
$(MV) pic/$(BSD_LIB) .  
$(RM) -f ../$(BSD_LIB)  
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \  
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```
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```

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```
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```

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Theodore Ts'o
23-June-2007

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

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

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```

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```
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```

```
{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
```

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1.272 inflection 1.0.0

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1.273 builder 0.0.0-20180802200727-47ae307949d0

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1.274 posener-complete 1.2.1

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1.275 armon-circbuf 0.0.0-20190214190532-5111143e8da2

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1.276 protobuf 1.25.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-
jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-
jar/io/grpc/protobuf/package-
info.java
* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-
jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
*
/opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-
jar/io/grpc/protobuf/StatusProto.java
```

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```

Found in path(s):

```
*/opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-
jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java
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Found in path(s):

```
*/opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-
jar/io/grpc/protobuf/ProtoUtils.java
```

1.277 golang-mock 1.6.0

1.277.1 Available under license :

```
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# have contributed) code to the gomock repository.
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#
```

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#   http://code.google.com/legal/individual-cla-v1.0.html
#   http://code.google.com/legal/corporate-cla-v1.0.html
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# individual or corporate
# CLA was used.
```

```
# Names should be added to this file like so:
#   Name <email address>
#
# An entry with two email addresses specifies that the
# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.
```

```
# Please keep the list sorted.
```

```
Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface
```

```
//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header
```

```
type Empty interface{ }
```

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```

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//

// Code generated by MockGen. DO NOT EDIT.

// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

```
import (  
    gomock "github.com/golang/mock/gomock"  
)
```

// MockEmpty is a mock of Empty interface.

```
type MockEmpty struct {  
    ctrl    *gomock.Controller  
    recorder *MockEmptyMockRecorder  
}
```

// MockEmptyMockRecorder is the mock recorder for MockEmpty.

```
type MockEmptyMockRecorder struct {  
    mock *MockEmpty  
}
```

// NewMockEmpty creates a new mock instance.

```
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {  
    mock := &MockEmpty{ctrl: ctrl}  
    mock.recorder = &MockEmptyMockRecorder{mock}  
    return mock  
}
```

// EXPECT returns an object that allows the caller to indicate expected use.

```
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
```

```
{  
  return m.recorder  
}
```

1.278 xxhash 2.1.2

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1.279 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.280 sean-seed 0.0.0-20170313163322-e2103e2c3529

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1.281 x-text 0.3.7

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1.282 go-jmespath 0.4.0

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1.283 miekg-dns 1.1.15

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1.284 google-go-cmp 0.5.0

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1.285 errwrap 1.0.0

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1.287 hashicorp-logutils 1.0.0

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1.291 roles 0.0.0-20171127035124-d6375609fe3e

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package roles

```
import (  
  "errors"  
  "fmt"  
)
```

```
// PermissionMode permission mode  
type PermissionMode string
```

```
const (  
  // Create predefined permission mode, create permission  
  Create PermissionMode = "create"  
  // Read predefined permission mode, read permission  
  Read PermissionMode = "read"  
  // Update predefined permission mode, update permission
```

```

Update PermissionMode = "update"
// Delete predefined permission mode, deleted permission
Delete PermissionMode = "delete"
// CRUD predefined permission mode, create+read+update+delete permission
CRUD PermissionMode = "crud"
)

// ErrPermissionDenied no permission error
var ErrPermissionDenied = errors.New("permission denied")

// Permission a struct contains permission definitions
type Permission struct {
    Role      *Role
    AllowedRoles map[PermissionMode][]string
    DeniedRoles map[PermissionMode][]string
}

func includeRoles(roles []string, values []string) bool {
    for _, role := range roles {
        if role == Anyone {
            return true
        }
    }

    for
    _, value := range values {
        if value == role {
            return true
        }
    }
    return false
}

// Concat concat two permissions into a new one
func (permission *Permission) Concat(newPermission *Permission) *Permission {
    var result = Permission{
        Role:      Global,
        AllowedRoles: map[PermissionMode][]string{ },
        DeniedRoles: map[PermissionMode][]string{ },
    }

    var appendRoles = func(p *Permission) {
        if p != nil {
            result.Role = p.Role

            for mode, roles := range p.DeniedRoles {
                result.DeniedRoles[mode] = append(result.DeniedRoles[mode], roles...)
            }
        }
    }

```

```

    for mode, roles := range p.AllowedRoles {
        result.AllowedRoles[mode] = append(result.AllowedRoles[mode], roles...)
    }
}

appendRoles(newPermission)
appendRoles(permission)
return &result
}

// Allow allows permission mode for roles
func (permission *Permission) Allow(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Allow(Create, roles...).Allow(Update, roles...).Allow(Read,
            roles...).Allow(Delete, roles...)
    }

    if permission.AllowedRoles[mode] == nil {
        permission.AllowedRoles[mode] = []string{}
    }
    permission.AllowedRoles[mode] = append(permission.AllowedRoles[mode], roles...)
    return permission
}

// Deny deny permission mode for roles
func (permission *Permission) Deny(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Deny(Create, roles...).Deny(Update, roles...).Deny(Read, roles...).Deny(Delete, roles...)
    }

    if permission.DeniedRoles[mode] == nil {
        permission.DeniedRoles[mode] = []string{}
    }
    permission.DeniedRoles[mode] = append(permission.DeniedRoles[mode], roles...)
    return permission
}

// HasPermission check roles has permission for mode or not
func (permission Permission) HasPermission(mode PermissionMode, roles ...interface{ }) bool {
    var roleNames []string
    for _, role := range roles {
        if r, ok := role.(string); ok {
            roleNames = append(roleNames, r)
        } else if roler, ok := role.(Roler); ok {
            roleNames = append(roleNames, roler.GetRoles()...)
        }
    }
}

```

```

    } else {
        fmt.Printf("invalid role %#v\n", role)
        return false
    }
}

if len(permission.DeniedRoles) != 0 {
    if DeniedRoles := permission.DeniedRoles[mode]; DeniedRoles != nil {
        if includeRoles(DeniedRoles, roleNames) {
            return false
        }
    }
}

// return true if haven't define allowed roles
if len(permission.AllowedRoles) == 0 {
    return true
}

if AllowedRoles := permission.AllowedRoles[mode]; AllowedRoles != nil {
    if includeRoles(AllowedRoles, roleNames) {
        return true
    }
}

return false
}

```

1.292 audited 0.0.0-20171228121055-b52c9c2f0571

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1.293 brittlem-mesh 0.0.0-20200327155709-1dc4b1037ee0

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* /opt/cola/permits/1212818213_1634075438.68/0/admin-b2f472167d028a04c736b4a2477d7cce1e578b8f-1-  
zip/admin-b2f472167d028a04c736b4a2477d7cce1e578b8f/views/assets/stylesheets/vendors.css  
* /opt/cola/permits/1212818213_1634075438.68/0/admin-b2f472167d028a04c736b4a2477d7cce1e578b8f-1-  
zip/admin-b2f472167d028a04c736b4a2477d7cce1e578b8f/views/assets/stylesheets/vendors/cropper.min.css
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zip/admin-
b2f472167d028a04c736b4a2477d7cce1e578b8f/views/assets/javascripts/vendors/jquery.timepicker.min.js
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* <https://github.com/fengyuanchen/cropper>

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1.310 errors 0.9.1

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1.311 mitchellh-mapstructure 1.3.2

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1.312 go-playground-locales 0.14.0

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1.313 leodido-go-urn 1.2.1

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1.314 go-playground-universal-translator 0.18.0

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1.315 gopkg.in/fsnotify 1.4.7

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1.316 x-sys 0.0.0-20210927094055-39ccf1dd6fa6

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1.317 watcher 1.0.7

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1.318 tdb 1.45.5

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1.319 lvm2 1.02.167-1ubuntu1

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1.321 color 1.9.0

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1.322 zerolog 1.25.0

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1.323 x-text 0.3.2

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1.324 ini 1.51.0

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1.325 robfig-cron 3.0.0

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1.326 go-colorable 0.1.4

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1.327 cpp 9.3.0-1ubuntu2

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1.328 python 3.8.2-0ubuntu2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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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
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		
3.0	2.6	2008	PSF	yes
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```
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.`
    }
}
```

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```
`  
`  
}  
}
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Version 3, 29 June 2007

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1.346 slimshady-cpd 0.1.3

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#

#####
##
## Gradle start up script for UN*X
##
#####

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while
[ -h "$PRG" ] ; do
ls=`ls -ld "$PRG"`
link=`expr "$ls" : '.*-> \(.*\)${`}'`
if expr "$link" : '/.*' > /dev/null; then
PRG="$link"
else
PRG=`dirname "$PRG"`"/$link"
fi
```

```

done
SAVED=""`pwd`"
cd "`dirname \"$PRG\"`/" >/dev/null
APP_HOME=""`pwd -P`"
cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0`"

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this
script.
DEFAULT_JVM_OPTS=""-Xmx64m" "-Xms64m"

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD="maximum"

warn () {
    echo "$*"
}

die () {
    echo
    echo "$*"
    echo
    exit 1
}

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case "`uname`" in
    CYGWIN* )
        cygwin=true
        ;;
    Darwin* )
        darwin=true
        ;;
    MINGW* )
        msys=true
        ;;
    NONSTOP* )
        nonstop=true
        ;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar

```

```

# Determine
the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
  if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
    # IBM's JDK on AIX uses strange locations for the executables
    JAVACMD="$JAVA_HOME/jre/sh/java"
  else
    JAVACMD="$JAVA_HOME/bin/java"
  fi
  if [ ! -x "$JAVACMD" ] ; then
    die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME

Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
  fi
else
  JAVACMD="java"
  which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in
your PATH.

Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
fi

# Increase the maximum file descriptors if we can.
if [ "$cygwin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
  MAX_FD_LIMIT=`ulimit -H -n`
  if [ $? -eq 0 ] ; then
    if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max"
  ] ; then
    MAX_FD="$MAX_FD_LIMIT"
  fi
  ulimit -n $MAX_FD
  if [ $? -ne 0 ] ; then
    warn "Could not set maximum file descriptor limit: $MAX_FD"
  fi
else
  warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
fi
fi

# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
  GRADLE_OPTS="$GRADLE_OPTS \"-Xdock:name=$APP_NAME\" \"-
Xdock:icon=$APP_HOME/media/gradle.icns\""
fi

```

```

# For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ]; then
  APP_HOME=`cygpath --path --mixed "$APP_HOME"`
  CLASSPATH=`cygpath --path --mixed "$CLASSPATH"`

  JAVACMD=`cygpath --unix "$JAVACMD"`

# We build the pattern for arguments to be converted via cygpath
ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
SEP=""
for dir in $ROOTDIRSRAW ; do
  ROOTDIRS="$ROOTDIRS$SEP$dir"
  SEP="|"
done
OURCYGPATTERN="(^($ROOTDIRS))"
# Add a user-defined pattern to the cygpath arguments
if [ "$GRADLE_CYGPATTERN" != "" ]; then
  OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
fi
# Now convert the arguments - kludge to limit ourselves to /bin/sh
i=0
for arg in "$@" ; do
  CHECK=`echo "$arg"|egrep -c "$OURCYGPATTERN" -`
  CHECK2=`echo "$arg"|egrep -c "^-"`           ### Determine if an option

  if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then        ### Added a condition
    eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"`
  else
    eval `echo args$i`="\`$arg\`"
  fi
  i=`expr $i + 1`
done
case $i in
  0) set -- ;;
  1) set -- "$args0" ;;
  2) set -- "$args0" "$args1" ;;
  3) set -- "$args0" "$args1" "$args2" ;;
  4) set -- "$args0" "$args1" "$args2" "$args3" ;;
  5) set -- "$args0" "$args1" "$args2"
"$args3" "$args4" ;;
  6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
  7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
  8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
  9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" "$args8" ;;
esac
fi

```

```

# Escape application args
save () {
  for i do printf %s\n "$i" | sed "s/'/\\'/g;1s/^/';\$s/\$/ '\\\'' ; done
  echo " "
}
APP_ARGS=`save "$@"`

# Collect all arguments for the java command, following the shell quoting and substitution rules
eval set -- $DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS "\-
Dorg.gradle.appname=$APP_BASE_NAME\'' -classpath "\$CLASSPATH\''
org.gradle.wrapper.GradleWrapperMain "$APP_ARGS"

exec "$JAVACMD" "$@"

```

Found in path(s):

```
* /opt/cola/permits/1212818244_1715290366.6604738/0/cpd-main-1-zip/cpd-main/cmd/gradlew
```

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Found in path(s):

```
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```

1.347 gorilla 1.1.1

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1.348 memberlist 0.1.5

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1.349 go-colorable 0.1.4

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1.354 avast-retry-go 2.4.1+incompatible

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1.355 x-sys 0.0.0-20200523222454-059865788121

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1.356 mcuadros-go-version 0.0.0-20190830083331-035f6764e8d2

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1.357 tail 1.0.0

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1.358 ulikunitz-xz 0.5.6

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package main

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```

```
package main
```

```
import (  
    "bufio"  
    "bytes"  
    "flag"  
    "fmt"  
    "io"  
    "log"  
    "os"  
    "path/filepath"  
    "strings"  
)
```

```
const crUsageString = `xb copyright [options] <path>...
```

The xb copyright command adds a copyright remark to all go files below path.

```
-h prints this message and exits
```

```
,
```

```
func crUsage(w io.Writer) {  
    fmt.Fprint(w, crUsageString)  
}
```

```
const copyrightText = `  
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```

```
,
```

```
func goComment(text string) string {  
    buf := new(bytes.Buffer)  
    scanner := bufio.NewScanner(strings.NewReader(text))  
    var err error  
    for scanner.Scan() {  
        s := strings.TrimSpace(scanner.Text())  
        if len(s) == 0 {  
            continue  
        }  
        if _, err = fmt.Fprintln(buf, "//", s); err != nil {  
            panic(err)  
        }  
    }  
}
```

```

if err
= scanner.Err(); err != nil {
    panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
    panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprint(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
        if del {

```



```

s := strings.TrimSpace(txt)
if len(s) == 0 {
    del = false
}
continue
}
fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
if err != nil {
    return err
}
if info.IsDir() {
    return nil
}
if !strings.HasSuffix(info.Name(), ".go") {
    return nil
}
return addCopyright(path)
}

func copyright() {
cmdName := os.Args[0]
log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
log.SetFlags(0)

flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

help := flag.Bool("h", false, "")

flag.Parse()

if *help {
    crUsage(os.Stdout)
    os.Exit(0)
}

```

```
for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
    if err = filepath.Walk(path, walkCopyrights); err != nil {
        log.Fatalf("%s error %s", path, err)
    }
}
}
```

1.359 hashicorp-serf 0.8.3

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1.360 ozzo-validation 4.3.0

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1.361 gorm 1.9.10

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1.362 miekg-dns 1.1.15

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1.363 hashicorp-serf 0.8.3

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1.364 hashicorp-mdns 1.0.1

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1.365 jackson 2.6.1

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jar/com/mastfrog/jackson/DurationSerializationMode.java  
* /opt/cola/permits/1289883534_1647504613.32/0/jackson-2-6-1-sources-  
jar/com/mastfrog/jackson/JavaTimeConfigurer.java  
* /opt/cola/permits/1289883534_1647504613.32/0/jackson-2-6-1-sources-  
jar/com/mastfrog/jackson/LocaleJacksonConfigurer.java  
* /opt/cola/permits/1289883534_1647504613.32/0/jackson-2-6-1-sources-  
jar/com/mastfrog/jackson/TimeSerializationMode.java
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* /opt/cola/permits/1289883534_1647504613.32/0/jackson-2-6-1-sources-  
jar/com/mastfrog/jackson/OptionalJavaUtilSerializer.java  
* /opt/cola/permits/1289883534_1647504613.32/0/jackson-2-6-1-sources-  
jar/com/mastfrog/jackson/OptionalSerializer.java
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1.366 jetty-webapp 9.2.13.v20150730

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jar/org/eclipse/jetty/webapp/OverrideDescriptor.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/ClasspathPattern.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/Descriptor.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/DescriptorProcessor.java
*
/opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/WebInfConfiguration.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/FragmentDescriptor.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/MetaDataComplete.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/Configuration.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/WebDescriptor.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/MetaData.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/DiscoveredAnnotation.java
```

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* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/IterativeDescriptorProcessor.java
*
/opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/FragmentConfiguration.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/Ordering.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/StandardDescriptorProcessor.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/package-info.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/AbstractConfiguration.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/WebAppClassLoader.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/CloneConfiguration.java
*
/opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/JettyWebXmlConfiguration.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/DefaultsDescriptor.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/Origin.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/WebAppContext.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/WebXmlConfiguration.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/JarScanner.java
* /opt/cola/permits/1289883443_1647504601.86/0/jetty-webapp-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/webapp/MetaInfConfiguration.java

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1.367 commons-lang3 3.4

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Found in path(s):

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/lang/Validate.java

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

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* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/LinkedMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/lang/DateUtil.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/regex/package_info.java

*

/opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/TimeoutMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/DefaultConverter.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/TokenIterator.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/TypeMismatchException.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/ConverterImpl.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/lang/BeanUtil.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/LRUHashMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/IgnoreCaseMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/Visitor.java

*

/opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/NoAvailableConverterException.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/WeakWeakMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/ExpiringMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/Converter.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/DuplicateHandler.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/NumberConverter.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/CollectionUtil.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/MissingTypeException.java

*

/opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/ConversionException.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/StringTokenIterator.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/LinkedSet.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/DateConverter.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/regex/WildcardStringParser.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/AbstractTokenIterator.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/FilterIterator.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/lang/StringUtil.java

*

/opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/regex/RegExTokenIterator.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/RegisterableService.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/TimeFormat.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/Time.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/package_info.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/ServiceConfigurationError.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/lang/SystemUtil.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/pacakge_info.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/lang/ReflectUtil.java

*

/opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/AbstractDecoratedMap.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/package_info.java

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/NullMap.java

```
* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/lang/Platform.java
* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/LRUMap.java
* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/lang/package_info.java
* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/TimeConverter.java
* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/BeanMap.java
*
/opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/convert/PropertyConverter.java
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```

```
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* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
* A registry for service provider objects.
* <p/>
```

```

* Service providers are looked up from the classpath, under the path
* { @code META-INF/services/}&lt;full-class-name&gt;;
* <p/>
* For example:<br/>
* { @code META-INF/services/com.company.package.spi.MyService }.
* <p/>
* The file should contain a list of fully-qualified concrete class names,
*
one per line.
* <p/>
* The <em>full-class-name</em> represents an interface or (typically) an
* abstract class, and is the same class used as the category for this registry.
* Note that only one instance of a concrete subclass may be registered with a
* specific category at a time.
* <p/>
* <small>Implementation detail: This class is a clean room implementation of
* a service registry and does not use the proprietary { @code sun.misc.Service }
* class that is referred to in the <em>JAR File specification</em>.
* This class should work on any Java platform.
* </small>
*
* @author <a href="mailto:harald.kuhr@gmail.com">Harald Kuhr</a>
* @version $Id: com.twelvemonkeys/util/service/ServiceRegistry.java#2 $
* @see RegisterableService
* @see <a href="http://java.sun.com/j2se/1.3/docs/guide/jar/jar.html#Service%20Provider">JAR File
Specification</a>
*/

```

Found in path(s):

```

* /opt/cola/permits/1289883526_1647504604.2/0/common-lang-3-4-sources-
jar/com/twelvemonkeys/util/service/ServiceRegistry.java

```

1.368 wiremock-standalone 2.5.1

1.368.1 Available under license :

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```

/*
jQuery Wiggle
Author: WonderGroup, Jordan Thomas
URL: http://labs.wondergroup.com/demos/mini-ui/index.html
License: MIT (http://en.wikipedia.org/wiki/MIT_License)
*/

```

Found in path(s):

```

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-
ui/lib/jquery.wiggle.min.js

```

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/*!

handlebars v4.0.5

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Found in path(s):

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-ui/lib/handlebars-4.0.5.js

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/*

* jQuery BBQ: Back Button & Query Library - v1.2.1 - 2/17/2010

* <http://benalman.com/projects/jquery-bbq-plugin/>

*

* Copyright (c) 2010 "Cowboy" Ben Alman

* Dual licensed under the MIT and GPL licenses.

* <http://benalman.com/about/license/>

*/

Found in path(s):

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-ui/lib/jquery.ba-bbq.min.js

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```
/**
 * marked - a markdown parser
 * Copyright (c) 2011-2014, Christopher Jeffrey. (MIT Licensed)
 * https://github.com/chjj/marked
 */
```

Found in path(s):

```
*/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-
ui/lib/marked.js
```

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```
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 *
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 */
```

```
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 */
```

Found in path(s):

```
*/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/servlet/FaultInjectorFactory.java
```

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/com/github/tomakehurst/wiremock/jetty9/JettyFaultInjectorFactory.java

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/*! JSON Editor v0.7.22 - JSON Schema -> HTML Editor

* By Jeremy Dorn - https://github.com/jdorn/json-editor/

* Released under the MIT license

*

* Date: 2015-08-12

*/

Found in path(s):

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-ui/lib/jsoneditor.min.js

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```
(function(){function
e(){e.history=e.history||[],e.history.push(arguments),this.console&&console.log(Array.prototype.slice.call(argument
s)[0])}!function(){var
e=Handlebars.template,t=Handlebars.templates=Handlebars.templates||{};t.apikey_auth=e({1:function(e,t,n,r,i){var
a;return'      <span
class="key_auth__value">'+(null!=(a=(n.sanitize||t&&.&t.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t.value:t,
{name:"sanitize",hash:{},data:i}))?a:"")+</span>\n"},3:function(e,t,n,r,i){return'      <input
placeholder="api_key" class="auth_input input_apiKey_entry" name="apiKey" type="text"/>\n'},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'<div class="key_input_container">\n
<h3 class="auth__title">Api key authorization</h3>\n  <div
class="auth__description">'+(null!=(a=(n.sanitize||t&&.&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",ha
sh:{},data:i}))?a:"")+</div>\n
  <div>\n    <div class="key_auth__field">\n      <span class="key_auth__label">name:</span>\n
<span
class="key_auth__value">'+(null!=(a=(n.escape||t&&.&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},dat
a:i}))?a:"")+</span>\n    </div>\n    <div class="key_auth__field">\n      <span
class="key_auth__label">in:</span>\n      <span
class="key_auth__value">'+(null!=(a=(n.escape||t&&.&t.escape||s).call(o,null!=t?t["in"]:t,{name:"escape",hash:{},dat
a:i}))?a:"")+</span>\n    </div>\n    <div class="key_auth__field">\n      <span
class="key_auth__label">value:</span>\n'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.pro
gram(1,i,0),inverse:e.program(3,i,0),data:i}))?a:"")+
</div>\n</div>\n"},useData:!0}),t.auth_button=e({compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){return"<a
class='authorize__btn'
href=\"#\>Authorize</a>\n"},useData:!0}),t.auth_button_operation=e({1:function(e,t,n,r,i){return"
  authorize__btn_operation_login\n"},3:function(e,t,n,r,i){return"
  authorize__btn_operation_logout\n"},5:function(e,t,n,r,i){var a;return'      <ul class="authorize-
scopes">\n'+(null!=(a=n.each.call(null!=t?t:{},null!=t?t.scopes:t,{name:"each",hash:{},fn:e.program(6,i,0),inverse:e
.noop,data:i}))?a:"")+
      </ul>\n"},6:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'
<li class="authorize__scope"
title=""'+(null!=(a=(n.escape||t&&.&t.escape||s).call(o,null!=t?t.description:t,{name:"escape",hash:{},data:i}))?a:"")+
">'+(null!=(a=(n.escape||t&&.&t.escape||s).call(o,null!=t?t.scope:t,{name:"escape",hash:{},data:i}))?a:"")+</li>\n"},co
mpiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{};return'<div class="authorize__btn
```

```

authorize__btn_operation\n'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(3,i,0),data:i}))?a:"")+>\n'+(null!=(a=n["if"].call(o,null!=t?t.scopes:t,{name:"if",hash:{},fn:e.program(5,i,0),inverse:e.noop,data:i}))?a:"")+</div>\n"},useData:!0}),t.auth_view=e({1:function(e,t,n,r,i){return'
  <button type="button" class="auth__button auth_submit__button" data-sw-
translate>Authorize</button>\n'},3:function(e,t,n,r,i){return'    <button type="button" class="auth__button
auth_logout__button" data-sw-translate>Logout</button>\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var
a,o=null!=t?t:{ };return'<div class="auth_container">\n\n  <div class="auth_inner"></div>\n  <div
class="auth_submit">\n'+(null!=(a=n.unless.call(o,null!=t?t.isLogout:t,{name:"unless",hash:{},fn:e.program(1,i,0),i
nverse:e.noop,data:i}))?a:"")+</div>\n\n'+(null!=(a=n["if"].call(o,null!=t?t.isAuthorized:t,{name:"if",hash:{},fn:e.program(3,i,0
),inverse:e.noop,data:i}))?a:"")+</div>\n\n'+</div>\n"},useData:!0}),t.basic_auth=e({1:function(e,t,n,r,i){return' -
authorized"},3:function(e,t,n,r,i){var a;return'
  <span
class="basic_auth__value">'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{ },null!=t?username
e:t,{name:"escape",hash:{},data:i}))?a:"")+</span>\n"},5:function(e,t,n,r,i){return'    <input required
placeholder="username" class="basic_auth__username auth_input" name="username"
type="text"/>\n'},7:function(e,t,n,r,i){return'    <div class="auth_label">\n      <span
class="basic_auth__label" data-sw-translate>password:</span>\n      <input required placeholder="password"
class="basic_auth__password auth_input" name="password" type="password"/></div>\n
</div>\n'},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{ };return'<div
class="basic_auth_container">\n  <h3 class="auth__title">Basic
authentication'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,d
ata:i}))?a:"")+</h3>\n  <form class="basic_input_container">\n    <div
class="auth__description">'+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(o,null!=t?t.description:t,{na
me:"sanitize",hash:{},data:i}))?a:"")+</div>\n
    <div class="auth_label">\n      <span class="basic_auth__label" data-sw-
translate>username:</span>\n'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(3,i,0),i
nverse:e.program(5,i,0),data:i}))?a:"")+
</div>\n'+(null!=(a=n.unless.call(o,null!=t?t.isLogout:t,{name:"unless",hash:{},fn:e.program(7,i,0),inverse:e.noop,
data:i}))?a:"")+</form>\n</div>\n"},useData:!0}),t.content_type=e({1:function(e,t,n,r,i){var a;return
null!=(a=n.each.call(null!=t?t:{ },null!=t?produces:t,{name:"each",hash:{},fn:e.program(2,i,0),inverse:e.noop,data:
i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{ },s=n.helperMissing;return'\t<option
value="'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+>'+(null!=(a=(n.s
anitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+>\n"},4:function(e,t,n,r,i){return'
  <option value="application/json">application/json</option>\n'},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{ },s=n.helperMissing;return'<label data-sw-translate
for="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.contentTypeId:t,{name:"escape",hash:{},data:i}))?a:"")+
">Response Content Type</label>\n<select name="contentType"
id="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.contentTypeId:t,{name:"escape",hash:{},data:i}))?a:"")+
">\n'+(null!=(a=n["if"].call(o,null!=t?t.produces:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(4,i,0),d
ata:i}))?a:"")+</select>\n"},useData:!0}),t.main=e({1:function(e,t,n,r,i){var
a,o=null!=t?t:{ },s=n.helperMissing;return' <div
class="info_title">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=(a=null!=t?t.info:t)?a.title:a,{name:"sanitize"
,hash:{},data:i}))?a:"")+</div>\n <div class="info_description
markdown">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=(a=null!=t?t.info:t)?a.description:a,{name:"sanitiz
e",hash:{},data:i}))?a:"")+</div>\n'+(null!=(a=n["if"].call(o,null!=t?t.externalDocs:t,{name:"if",hash:{},fn:e.progr
am(2,i,0),inverse:e.noop,data:i}))?a:"")+
'+(null!=(a=n["if"].call(o,null!=(a=null!=t?t.info:t)?a.termsOfServiceUrl:a,{name:"if",hash:{},fn:e.program(4,i,0),in
verse:e.noop,data:i}))?a:"")+</div>\n

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"+(null!=(a=n["if"].call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.name:a,{name:"if",hash:{},fn:e.program(6,i,0),inverse:e.noop,data:i}))?a:"")+ "\n"
"+(null!=(a=n["if"].call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.url:a,{name:"if",hash:{},fn:e.program(8,i,0),inverse:e.noop,data:i}))?a:"")+ "\n"
"+(null!=(a=n["if"].call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.email:a,{name:"if",hash:{},fn:e.program(10,i,0),inverse:e.noop,data:i}))?a:"")+ "\n"
"+(null!=(a=n["if"].call(o,null!=(a=null!=t?t.info:t)?a.license:a,{name:"if",hash:{},fn:e.program(12,i,0),inverse:e.noop,data:i}))?a:"")+ "\n",2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return "<p>"+(null!=(a=(n.sanitize||t&&.&.&.sanitize||s).call(o,null!=(a=null!=t?t.externalDocs:t)?a.description:a,{name:"sanitize",hash:{},data:i}))?a:"")+ '</p>\n <a href="'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=t?t.externalDocs:t)?a.url:a,{name:"escape",hash:{},data:i}))?a:"")+ " target='_blank'">+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=t?t.externalDocs:t)?a.url:a,{name:"escape",hash:{},data:i}))?a:"")+ "</a>\n",4:function(e,t,n,r,i){var a;return'<div class="info_tos"><a target="_blank" href="'+(null!=(a=(n.escape||t&&.&.&.escape||n.helperMissing).call(null!=t?t:{},null!=(a=null!=t?t.info:t)?a.termsOfServiceUrl:a,{name:"escape",hash:{},data:i}))?a:"")+ " data-sw-translate>Terms of service</a></div>',6:function(e,t,n,r,i){var a;return'<div><div class='info_name' style=\\"display: inline\\" data-sw-translate>Created by </div>"+(null!=(a=(n.escape||t&&.&.&.escape||n.helperMissing).call(null!=t?t:{},null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.name:a,{name:"escape",hash:{},data:i}))?a:"")+ "</div>"},8:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'<div class='info_url' data-sw-translate>See more at <a href=\\"'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.url:a,{name:"escape",hash:{},data:i}))?a:"")+ "\">'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.url:a,{name:"escape",hash:{},data:i}))?a:"")+ "</a></div>"},10:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'<div class='info_email'\><a target='_parent' href="mailto:'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.email:a,{name:"escape",hash:{},data:i}))?a:"")+ "?subject="'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=t?t.info:t)?a.title:a,{name:"escape",hash:{},data:i}))?a:"")+ " data-sw-translate>Contact the developer</a></div>',12:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'<div class='info_license'\><a target=\\"_blank\" href="'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.license:a)?a.url:a,{name:"escape",hash:{},data:i}))?a:"")+ "\">'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.license:a)?a.name:a,{name:"escape",hash:{},data:i}))?a:"")+ "</a></div>"},14:function(e,t,n,r,i){var a;return' <span style="font-variant: small-caps" data-sw-translate>api version</span>'+(null!=(a=(n.escape||t&&.&.&.escape||n.helperMissing).call(null!=t?t:{},null!=(a=null!=t?t.info:t)?a.version:a,{name:"escape",hash:{},data:i}))?a:"")+ "\n ",16:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return' <span style="float:right"><a target="_blank" href="'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=t?t.validatorUrl:t,{name:"escape",hash:{},data:i}))?a:"")+ "/debug?url="'+(null!=(a=(n.escape||t&&.&.&.escape||s).call(o,null!=t?t.url:t,{name:"escape",hash:{},data:i}))?a:"")+ "\"></a>\n </span>\n'},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{};return'<div class='info' id='api_info'\>\n'+(null!=(a=n["if"].call(o,null!=t?t.info:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,data:i}))?a:"")+ "</div>\n<div class='container' id='resources_container'\>\n <div class='authorize-wrapper'\></div>\n\n<ul id='resources'\></ul>\n\n <div class='footer'\>\n\n <h4 style=\\"color: #999\"\>[ <span style=\\"font-variant:"
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small-caps\>base url</span>:
"+(null!=(a=(n.escape|t&& escape|n.helperMissing).call(o,null!=t?t.basePath:t,{name:"escape",hash:{},data:i}))?a:
:"")+"\n"+(null!=(a=n["if"].call(o,null!=(a=null!=t?t.info:t)?a.version:a,{name:"if",hash:{},fn:e.program(14,i,0),inve
rse:e.noop,data:i}))?a:"")+ "\n"+(null!=(a=n["if"].call(o,null!=t?t.validatorUrl:t,{name:"if",hash:{},fn:e.program(16,
i,0),inverse:e.noop,data:i}))?a:"")+
  </h4>\n  </div>\n</div>\n"},useData:!0}),t.oauth2=e({1:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return'  <li>\n    <input class="oauth-scope" type="checkbox"
data-scope="'+(null!=(a=(n.escape|t&& escape|s).call(o,null!=t?t.scope:t,{name:"escape",hash:{},data:i}))?a:"")+"'
oauthtype="'+(null!=(a=(n.escape|t&& escape|s).call(o,null!=t?t.OAuthSchemeKey:t,{name:"escape",hash:{},data
:i}))?a:"")+"'>\n
<label>'+(null!=(a=(n.escape|t&& escape|s).call(o,null!=t?t.scope:t,{name:"escape",hash:{},data:i}))?a:"")+</labe
l><br/>\n    <span class="api-scope-
desc">'+(null!=(a=(n.escape|t&& escape|s).call(o,null!=t?t.description:t,{name:"escape",hash:{},data:i}))?a:"")+ "\
n"+(null!=(a=n["if"].call(o,null!=t?t.OAuthSchemeKey:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:e.noop,data
:i}))?a:"")+
      </span>\n    </li>\n"},2:function(e,t,n,r,i){var a;return"
("+ (null!=(a=(n.escape|t&& escape|n.helperMissing).call(null!=t?t:{},null!=t?t.OAuthSchemeKey:t,{name:"escap
e",hash:{},data:i}))?a:"")+)"\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return'<div>\n  <h3 class="auth__title">Select OAuth2.0 Scopes</h3>\n
<p>'+(null!=(a=(n.sanitize|t&& sanitize|s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+<
/p>\n  <p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each
API may declare one or more scopes.\n  <a href="#">Learn how to use</a>\n  </p>\n  <p><strong>
'+(null!=(a=(n.escape|t&& escape|s).call(o,null!=t?t.appName:t,{name:"escape",hash:{},data:i}))?a:"")+
</strong> API requires the following scopes.
  Select which ones you want to grant to Swagger UI.</p>\n  <p>Authorization URL:
"+(null!=(a=(n.sanitize|t&& sanitize|s).call(o,null!=t?t.authorizationUrl:t,{name:"sanitize",hash:{},data:i}))?a:"")+
"</p>\n  <p>flow:
"+(null!=(a=(n.escape|t&& escape|s).call(o,null!=t?t.flow:t,{name:"escape",hash:{},data:i}))?a:"")+</p>\n  <ul
class="api-popup-
scopes">\n'+(null!=(a=n.each.call(o,null!=t?t.scopes:t,{name:"each",hash:{},fn:e.program(1,i,0),inverse:e.noop,data
:i}))?a:"")+
</ul>\n</div>"}),t.operation=e({1:function(e,t,n,r,i){return"deprecated"},3:function(e,t,n,r,i){return"
  <h4><span data-sw-translate>Warning: Deprecated</span></h4>\n"},5:function(e,t,n,r,i){var a;return'
<h4><span data-sw-translate>Implementation Notes</span></h4>\n  <div
class="markdown">'+(null!=(a=(n.sanitize|t&& sanitize|n.helperMissing).call(null!=t?t:{},null!=t?t.description:t,{
name:"sanitize",hash:{},data:i}))?a:"")+</div>\n"},7:function(e,t,n,r,i){return"
  <div class='authorize-wrapper authorize-wrapper_operation'></div>\n"},9:function(e,t,n,r,i){var
a,o=null!=t?t:{};return'  <div class="response-class">\n    <h4><span data-sw-translate>Response
Class</span> (<span data-sw-translate>Status</span>
'+(null!=(a=(n.escape|t&& escape|n.helperMissing).call(o,null!=t?t.successCode:t,{name:"escape",hash:{},data:i}
))?a:"")+)"</h4>\n
"+(null!=(a=n["if"].call(o,null!=t?t.successDescription:t,{name:"if",hash:{},fn:e.program(10,i,0),inverse:e.noop,data
:i}))?a:"")+ "\n    <p><span class="model-signature" /></p>\n    <br/>\n    <div class="response-
content-type" />\n    </div>\n"},10:function(e,t,n,r,i){var a;return'<div
class="markdown">'+(null!=(a=(n.sanitize|t&& sanitize|n.helperMissing).call(null!=t?t:{},null!=t?t.successDescri
ption:t,{name:"sanitize",hash:{},data:i}))?a:"")+</div>"}),12:function(e,t,n,r,i){var a;return'  <h4 data-sw-
translate>Headers</h4>\n

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<table class="headers">\n      <thead>\n        <tr>\n          <th style="width: 100px; max-width: 100px" data-sw-translate>Header</th>\n          <th style="width: 310px; max-width: 310px" data-sw-translate>Description</th>\n          <th style="width: 200px; max-width: 200px" data-sw-translate>Type</th>\n          <th style="width: 320px; max-width: 320px" data-sw-translate>Other</th>\n        </tr>\n      </thead>\n      <tbody>\n        <tr>\n          <td>"+(null!=(a=n.each.call(null!=t?t:{},null!=t.t.headers:t,{name:"each",hash:{},fn:e.program(13,i,0),inverse:e.noop,data:i}))?a:"")+</td>\n          <td>"+(null!=(a=n.escape||t&&t.escape||l).call(s,null!=t?t.type:t,{name:"escape",hash:{},data:i}))?a:"")+</td>\n          <td>"+(null!=(a=n.escape||t&&t.escape||l).call(s,null!=t?t.other:t,{name:"escape",hash:{},data:i}))?a:"")+</td>\n          <td>"+(null!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+</td>\n        </tr>\n      </tbody>\n    </table>\n  },13:function(e,t,n,r,i){var a,o,s=null!=t?t:{},l=n.helperMissing;return"
<tr>\n  <th style="width: 100px; max-width: 100px" data-sw-translate>Parameter</th>\n  <th style="width: 310px; max-width: 310px" data-sw-translate>Value</th>\n  <th style="width: 200px; max-width: 200px" data-sw-translate>Description</th>\n  <th style="width: 100px; max-width: 100px" data-sw-translate>Parameter Type</th>\n  <th style="width: 220px; max-width: 230px" data-sw-translate>Data Type</th>\n</tr>\n</thead>\n<tbody class="operation-params">\n</tbody>\n</table>\n'},17:function(e,t,n,r,i){return"
<div style='margin:0;padding:0;display:inline'></div>\n<h4 data-sw-translate>Response Messages</h4>\n<table class='fullwidth response-messages'>\n  <thead>\n    <tr>\n      <th data-sw-translate>HTTP Status Code</th>\n      <th data-sw-translate>Reason</th>\n      <th data-sw-translate>Response Model</th>\n      <th data-sw-translate>Headers</th>\n    </tr>\n  </thead>\n  <tbody class='\"operation-status\"'>\n  </tbody>\n</table>\n"},19:function(e,t,n,r,i){return""},21:function(e,t,n,r,i){return"
<div class='sandbox_header'>\n  <input class='submit' type='submit' value='Try it out!' data-sw-translate/>\n  <a href='#' class='response_hider' style='display:none' data-sw-translate>Hide Response</a>\n  <span class='response_throbber' style='display:none'></span>\n</div>\n"},23:function(e,t,n,r,i){return"
<h4 data-sw-translate>Request Headers</h4>\n  <div class='block request_headers'></div>\n"},compiler:[7,">=4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing,l=e.escapeExpression;return"
<ul class='operations' >\n  <li class='\"'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.method:t,{name:"escape",hash:{},data:i}))?a:"")+\"operation' id='\"'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.parentId:t,{name:"escape",hash:{},data:i}))?a:"")+\"_\"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.nickname:t,{name:"escape",hash:{},data:i}))?a:"")+\">\n  <div class='heading'>\n    <h3>\n      <span class='http_method'>\n        <a href='#!'\"+1((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.encodedParentId:t,{name:"sanitize",hash:{},data:i})))+\"/'\"+1((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.nickname:t,{name:"sanitize",hash:{},data:i}))+' class='toggleOperation'>'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.method:t,{name:"escape",hash:{},data:i}))?a:"")+\"</a>\n      </span>\n      <span class='path'>\n        <a href='#!'\"+1((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.encodedParentId:t,{name:"sanitize",hash:{},data:i})))+\"/'\"+1((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.nickname:t,{name:"sanitize",hash:{},data:i}))+' class='toggleOperation\"+(null!=(a=n[\"if\"]).call(o,null!=t?t.deprecated:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,data:i}))?a:\">\"+\">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.path:t,{name:"escape",hash:{},data:i}))?a:"")+\"</a>\n

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",hash: { },fn:e.program(11,i,0),inverse:e.noop,data:i)))?a:"" },11:function(e,t,n,r,i){return""},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t: { },s=n.helperMissing;return"<td class='code'><label
for='\"+(null!=(a=(n.escape||t&&escape||s).call(o,null!=t?t.valueId:t,{name:\"escape\",hash: { },data:i}))?a:\"\"+\">\"+(n
ull!=(a=(n.escape||t&&escape||s).call(o,null!=t?t.name:t,{name:\"escape\",hash: { },data:i}))?a:\"\"+\"</label></td>\n<
td>\n\n\"+(null!=(a=n[\"if\"]).call(o,null!=t?t.isBody:t,{name:\"if\",hash: { },fn:e.program(1,i,0),inverse:e.program(9,i,0),
data:i}))?a:\"\"+\"</td>\n<td>\n<td
class='markdown'>\"+(null!=(a=(n.sanitize||t&&sanitize||s).call(o,null!=t?t.description:t,{name:\"sanitize\",hash: { },d
ata:i}))?a:\"\"+\"</td>\n<td>\"+(null!=(a=(n.escape||t&&escape||s).call(o,null!=t?t.paramType:t,{name:\"escape\",hash
: { },data:i}))?a:\"\"+\"</td>\n<td>\n<span
class='model-signature'></span>\n</td>\n'},useData:!0)),t.param_list=e({1:function(e,t,n,r,i){return
required"},3:function(e,t,n,r,i){return' multiple='\"multiple\""},5:function(e,t,n,r,i){return' required
\"},7:function(e,t,n,r,i){var a;return' <option
\"+(null!=(a=n.unless.call(null!=t?t: { },null!=t?t.hasDefault:t,{name:\"unless\",hash: { },fn:e.program(8,i,0),inverse:e.no
op,data:i}))?a:\"\"+\" value='\"></option>\n\"},8:function(e,t,n,r,i){return' selected='\"\" },10:function(e,t,n,r,i){var
a,o=null!=t?t: { },s=n.helperMissing;return'\n <option
\"+(null!=(a=n[\"if\"]).call(o,null!=t?t.isDefault:t,{name:\"if\",hash: { },fn:e.program(11,i,0),inverse:e.noop,data:i}))?a:\"\"
+\"
value='\"+(null!=(a=(n.sanitize||t&&sanitize||s).call(o,null!=t?t.value:t,{name:\"sanitize\",hash: { },data:i}))?a:\"\"+\">
\"+(null!=(a=(n.sanitize||t&&sanitize||s).call(o,null!=t?t.value:t,{name:\"sanitize\",hash: { },data:i}))?a:\"\"+\"
\"+(null!=(a=n[\"if\"]).call(o,null!=t?t.isDefault:t,{name:\"if\",hash: { },fn:e.program(13,i,0),inverse:e.noop,data:i}))?a:\"\"
+\" </option>\n\n\"},11:function(e,t,n,r,i){return' selected='\"\" },13:function(e,t,n,r,i){return' (default)
\"},15:function(e,t,n,r,i){return' <strong>\" },17:function(e,t,n,r,i){return' </strong>\" },compiler:[7,\">=
4.0.0\"],main:function(e,t,n,r,i){var a,o,s=null!=t?t: { },l=n.helperMissing;return'<td
class='code'>\"+(null!=(a=n[\"if\"]).call(s,null!=t?t.required:t,{name:\"if\",hash: { },fn:e.program(1,i,0),inverse:e.noop,data:
i}))?a:\"\"+\"><label
for='\"+(null!=(a=(n.escape||t&&escape||l).call(s,null!=t?t.valueId:t,{name:\"escape\",hash: { },data:i}))?a:\"\"+\">\"+(n
ull!=(a=(n.sanitize||t&&sanitize||l).call(s,null!=t?t.name:t,{name:\"sanitize\",hash: { },data:i}))?a:\"\"+\"</label></td>\n
n<td>\n <select
\"+(null!=(a=(n.isArray||t&&isArray||l).call(s,t,{name:\"isArray\",hash: { },fn:e.program(3,i,0),inverse:e.noop,data:i)
})?a:\"\"+\"
class='parameter
'+(null!=(a=n[\"if\"]).call(s,null!=t?t.required:t,{name:\"if\",hash: { },fn:e.program(5,i,0),inverse:e.noop,data:i}))?a:\"\"+\"
name='\"+(null!=(a=(n.sanitize||t&&sanitize||l).call(s,null!=t?t.name:t,{name:\"sanitize\",hash: { },data:i}))?a:\"\"+\"
id='\"+(null!=(a=(n.escape||t&&escape||l).call(s,null!=t?t.valueId:t,{name:\"escape\",hash: { },data:i}))?a:\"\"+\">\n\n'+
(null!=(a=n.unless.call(s,null!=t?t.required:t,{name:\"unless\",hash: { },fn:e.program(7,i,0),inverse:e.noop,data:i}))?a:
\"
\")+\"</td>\n\n\"+(null!=(a=n.each.call(s,null!=(a=null!=t?t.allowableValues:t)?a.descriptiveValues:a,{name:\"each\",hash: { },f
n:e.program(10,i,0),inverse:e.noop,data:i}))?a:\"\"+\"</select>\n</td>\n<td
class='markdown'>'+(null!=(a=n[\"if\"]).call(s,null!=t?t.required:t,{name:\"if\",hash: { },fn:e.program(15,i,0),inverse:e.
noop,data:i}))?a:\"\"+(null!=(o=null!=(o=n.description||(null!=t?t.description:t)?o:l,a=\"function\"===typeof
o?o.call(s,{name:\"description\",hash: { },data:i}):o)?a:\"\"+\"</td>\n<td>\"+(null!=(a=(n.escape||t&&escape||l).call(s,nul
l!=t?t.paramType:t,{name:\"escape\",hash: { },data:i}))?a:\"\"+\"</td>\n<td><span
class='model-signature'></span></td>\n'},useData:!0)),t.param_readonly=e({1:function(e,t,n,r,i){var
a,o=null!=t?t: { },s=n.helperMissing;return' <textarea class='body-textarea' readonly='readonly'
name='\"+(null!=(a=(n.sanitize||t&&sanitize||s).call(o,null!=t?t.name:t,{name:\"sanitize\",hash: { },data:i}))?a:\"\"+\"
id='\"+(null!=(a=(n.escape||t&&escape||s).call(o,null!=t?t.valueId:t,{name:\"escape\",hash: { },data:i}))?a:\"\"+\">\"+(n
ull!=(a=(n.sanitize||t&&sanitize||s).call(o,null!=t?t[\"default\"]:t,{name:\"sanitize\",hash: { },data:i}))?a:\"\"+\"</textarea
>\n </div class='parameter-content-type' />\n'},3:function(e,t,n,r,i){var a;return

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null!=(a=n["if"].call(null!=t?t:{},null!=t?t["default"]:t,{name:"if",hash:{},fn:e.program(4,i,0),inverse:e.program(6,i,0),data:i}))?a:"":4:function(e,t,n,r,i){var a;return"+(null!=(a=(n.sanitize|t&&|.sanitize|n.helperMissing).call(null!=t?t:{},null!=t?t["default"]:t,{name:"sanitize",hash:{},data:i}))?a:"")+\"n\",6:function(e,t,n,r,i){return"(empty)n\",compiler:[7,\">= 4.0.0\"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return\"<td class='code'><label for='\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+\">\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+\"</label></td>\\n<td>\\n\"+(null!=(a=n[\"if\"]).call(o,null!=t?t.isBody:t,{name:\"if\",hash:{},fn:e.program(1,i,0),inverse:e.program(3,i,0),data:i}))?a:\"\"+\"</td>\\n<td class='markdown'>\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t.description:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"</td>\\n<td>\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.paramType:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\"</td>\\n<td><span class='model-signature'></span></td>\\n\",useData:!0)),t.param_readonly_required=e({1:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return\"<textarea class='body-textarea' readonly='readonly' placeholder='(required)' name='\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t.name:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"id='\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.valueId:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\">\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t[\"default\"]:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"</textarea>\\n\"},3:function(e,t,n,r,i){var a;returnnull!=(a=n[\"if\"]).call(null!=t?t:{},null!=t?t[\"default\"]:t,{name:\"if\",hash:{},fn:e.program(4,i,0),inverse:e.program(6,i,0),data:i}))?a:\"\":4:function(e,t,n,r,i){var a;return\"+(null!=(a=(n.sanitize|t&&|.sanitize|n.helperMissing).call(null!=t?t:{},null!=t?t[\"default\"]:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"n\",6:function(e,t,n,r,i){return\"(empty)n\",compiler:[7,\">= 4.0.0\"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return\"<td class='code required'><label for='\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.valueId:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\">\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t.name:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"</label></td>\\n<td>\\n\"+(null!=(a=n[\"if\"]).call(o,null!=t?t.isBody:t,{name:\"if\",hash:{},fn:e.program(1,i,0),inverse:e.program(3,i,0),data:i}))?a:\"\"+\"</td>\\n<td class='markdown'>\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t.description:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"</td>\\n<td>\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.paramType:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\"</td>\\n<td><span class='model-signature'></span></td>\\n\",useData:!0)),t.param_required=e({1:function(e,t,n,r,i){var a;returnnull!=(a=n[\"if\"]).call(null!=t?t:{},null!=t?t.isFile:t,{name:\"if\",hash:{},fn:e.program(2,i,0),inverse:e.program(4,i,0),data:i}))?a:\"\":2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return\"\\t\\t<input type='file' name='\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.name:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\"id='\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.valueId:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\"/>\\n\"},4:function(e,t,n,r,i){var a;returnnull!=(a=n[\"if\"]).call(null!=t?t:{},null!=t?t[\"default\"]:t,{name:\"if\",hash:{},fn:e.program(5,i,0),inverse:e.program(7,i,0),data:i}))?a:\"\":5:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return\"\\t\\t\\t<div class='editor_holder'></div>\\n\\t\\t\\t<textarea class='body-textarea required' placeholder='(required)' name='\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t.name:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"id='\"+(null!=(a=(n.escape|t&&|.escape|s).call(o,null!=t?t.valueId:t,{name:\"escape\",hash:{},data:i}))?a:\"\"+\">\"+(null!=(a=(n.sanitize|t&&|.sanitize|s).call(o,null!=t?t[\"default\"]:t,{name:\"sanitize\",hash:{},data:i}))?a:\"\"+\"</textarea>\\n

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<br />\n      <div class="parameter-content-type" />\n',7:function(e,t,n,r,i){ var
a,o=null!=t?t:{},s=n.helperMissing;return "\t\t\t<textarea class='body-textarea required' placeholder='(required)'
name='"+(null!=(a=(n.sanitize||t&&.&.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+
id="'+(null!=(a=(n.escape||t&&.&.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+\'></tex
tarea>\n\t\t\t<div class="editor_holder"></div>\n\t\t\t<br />\n\t\t\t<div class="parameter-content-type"
/>\n',9:function(e,t,n,r,i){ var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t.isFile:t,{name:"if",hash:{},fn:e.program(10,i,0),inverse:e.program(12,i,0)
,data:i}))?a:"",10:function(e,t,n,r,i){ var a,o=null!=t?t:{},s=n.helperMissing;return "\t\t\t<input class='parameter'
class='required' type='file'
name='"+(null!=(a=(n.sanitize||t&&.&.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+
id="'+(null!=(a=(n.escape||t&&.&.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+\'>\n",
12:function(e,t,n,r,i){ var a;return
null!=(a=(n.renderTextParam||t&&.&.renderTextParam||n.helperMissing).call(null!=t?t:{},t,{name:"renderTextParam
",hash:{},fn:e.program(13,i,0),inverse:e.noop,data:i}))?a:"",13:function(e,t,n,r,i){ return ""},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){ var a,o=null!=t?t:{},s=n.helperMissing;return "<td class='code required'><label
for='"+(null!=(a=(n.escape||t&&.&.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+\'>'+(n
ull!=(a=(n.escape||t&&.&.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+\'</label></td>\n<
td>\n'+(null!=(a=n["if"].call(o,null!=t?t.isBody:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(9,i,0),da
ta:i}))?a:"")+\'</td>\n<td>\n<strong><span
class="markdown">'+(null!=(a=(n.sanitize||t&&.&.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},d
ata:i}))?a:"")+\'</span></strong>\n</td>\n<td>'+(null!=(a=(n.escape||t&&.&.escape||s).call(o,null!=t?t.paramType:t,{
name:"escape",hash:{},data:i}))?a:"")+\'</td>\n<td><span class="model-
signature"></span></td>\n',useData:!0)},t.parameter_content_type=e({1:function(e,t,n,r,i){ var a;return
null!=(a=n.each.call(null!=t?t:{},null!=t?t.consumes:t,{name:"each",hash:{},fn:e.program(2,i,0),inverse:e.noop,data
:i}))?a:"",2:function(e,t,n,r,i){ var a,o=null!=t?t:{},s=n.helperMissing;return ' <option
value="'+(null!=(a=(n.sanitize||t&&.&.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+\'>'+(null!=(a=(n.s
anitize||t&&.&.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+\'</option>\n',4:function(e,t,n,r,i){ return '
<option value="application/json">application/json</option>\n',compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){ var
a,o,s=null!=t?t:{},l=n.helperMissing;return '<label
for="'+e.escapeExpression((o=null!=(o=n.parameterContentTypeId|(null!=t?t.parameterContentTypeId:t))?o:l,"func
tion"==typeof o?o.call(s,{name:"parameterContentTypeId",hash:{},data:i}):o))+\' data-sw-translate>Parameter
content type:</label>\n<select name="parameterContentType"
id="'+(null!=(a=(n.sanitize||t&&.&.sanitize||l).call(s,null!=t?t.parameterContentTypeId:t,{name:"sanitize",hash:{},dat
a:i}))?a:"")+\'>\n'+(null!=(a=n["if"].call(s,null!=t?t.consumes:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.pro
gram(4,i,0),data:i}))?a:"")+\'</select>\n",useData:!0)},t.popup=e({compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){ var a;return '<div class="api-popup-dialog-wrapper">\n <div class="api-popup-
title">'+e.escapeExpression((a=null!=(a=n.title|(null!=t?t.title:t))?a:n.helperMissing,"function"==typeof
a?a.call(null!=t?t:{},{name:"title",hash:{},data:i}):a))+\'</div>\n <div class="api-popup-content"></div>\n <p
class="error-msg"></p>\n
<div class="api-popup-actions">\n <button class="api-popup-cancel api-button gray"
type="button">Cancel</button>\n </div>\n</div>\n<div class="api-popup-dialog-
shadow"></div>'},useData:!0)},t.resource=e({1:function(e,t,n,r,i){ return " : "},3:function(e,t,n,r,i){ var a;return "
<li>\n <a
href="'+(null!=(a=(n.sanitize||t&&.&.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t.url:t,{name:"sanitize",hash:
{ },data:i}))?a:"")+\' data-sw-translate>Raw</a>\n </li>\n",compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){ var
a,o,s,l=null!=t?t:{},u=n.helperMissing,c="<div class='heading'>\n <h2>\n <a
href="#!/"+(null!=(a=(n.sanitize||t&&.&.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+\'
class="toggleEndpointList" data-

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id=""+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+>+(null!
=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+</a>
";return
o=null!=(o=n.summary|(null!=t?t.summary:t)?o:u,s={name:"summary",hash:{},fn:e.program(1,i,0),inverse:e.noop,
data:i},a="function"==typeof
o?o.call(l,s):o,n.summary|(a=n.blockHelperMissing.call(t,a,s)),null!=a&&(c+=a),c+(null!=(a=(n.sanitize|t&&.&t.sanit
ize|u).call(l,null!=t?t.summary:t,{name:"sanitize",hash:{},data:i}))?a:"")+</h2>\n <ul class='options'>\n
<li>\n <a
href="#/!"+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+
id='endpointListToggle_'+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i
}))?a:"")+\' class="toggleEndpointList" data-
id=""+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+> data-sw-
translate>Show/Hide</a>\n </li>\n <li>\n <a href="#\' class="collapseResource" data-
id=""+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+>
data-sw-translate>\n List Operations\n </a>\n </li>\n <li>\n <a href="#\' class="expandResource"
data-id=""+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+>
data-sw-translate>\n Expand Operations\n </a>\n
</li>\n'+(null!=(a=n["if"].call(l,null!=t?t.url:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+
" </ul>\n</div>\n<ul class='endpoints'
id=""+(null!=(a=(n.sanitize|t&&.&t.sanitize|u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+>_endpoint
_list' style='display:none'>\n</ul>\n"},useData:!0}),t.response_content_type=e({1:function(e,t,n,r,i){var a;return
null!=(a=n.each.call(null!=t?t:{},null!=t?t.produces:t,{name:"each",hash:{},fn:e.program(2,i,0),inverse:e.noop,data:
i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return' <option
value=""+(null!=(a=(n.sanitize|t&&.&t.sanitize|s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+>+(null!=(a=(n.s
anitize|t&&.&t.sanitize|s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+</option>\n"},4:function(e,t,n,r,i){return'
<option value="application/json">application/json</option>\n'},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var
a,o,s=null!=t?t:{},l=n.helperMissing,u="function",c=e.escapeExpression;return'<label data-sw-translate
for=""+c((o=null!=(o=n.responseContentTypeId|(null!=t?t.responseContentTypeId:t))?o:l,typeof
o===u?o.call(s,{name:"responseContentTypeId",hash:{},data:i}):o))+>Response Content Type</label>\n<select
name="responseContentType"
id=""+c((o=null!=(o=n.responseContentTypeId|(null!=t?t.responseContentTypeId:t))?o:l,typeof
o===u?o.call(s,{name:"responseContentTypeId",hash:{},data:i}):o))+>\n'+(null!=(a=n["if"].call(s,null!=t?t.produc
es:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(4,i,0),data:i}))?a:"")+</select>\n"},useData:!0}),t.sig
nature=e({1:function(e,t,n,r,i){var a,o=null!=t?t:{};return'\n<div>\n<ul
class="signature-nav">\n <li><a class="description-link" href="#" data-sw-translate>Model</a></li>\n <li><a
class="snippet-link" href="#" data-sw-translate>Example Value</a></li>\n</ul>\n<div>\n\n<div class="signature-
container">\n <div class="description">\n
'+e.escapeExpression((n.sanitize|t&&.&t.sanitize|n.helperMissing).call(o,null!=t?t.signature:t,{name:"sanitize",hash:{
},data:i}))+'\n </div>\n\n <div
class="snippet">\n'+(null!=(a=n["if"].call(o,null!=t?t.sampleJSON:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:
e.noop,data:i}))?a:"")+>+(null!=(a=n["if"].call(o,null!=t?t.sampleXML:t,{name:"if",hash:{},fn:e.program(5,i,0),invers
e:e.noop,data:i}))?a:"")+> </div>\n</div>\n"},2:function(e,t,n,r,i){var a,o=null!=t?t:{};return' <div
class="snippet_json">\n
<pre><code>'+(null!=(a=(n.escape|t&&.&t.escape|n.helperMissing).call(o,null!=t?t.sampleJSON:t,{name:"escape",ha
sh:{},data:i}))?a:"")+</code></pre>\n
'+(null!=(a=n["if"].call(o,null!=t?t.isParam:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+
\n

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</div>\n"},3:function(e,t,n,r,i){return'<small class="notice" data-sw-
translate></small>'},5:function(e,t,n,r,i){var a,o=null!=t?t:{};return' <div class="snippet_xml">\n
<pre><code>'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(o,null!=t?t.sampleXML:t,{name:"escape",ha
sh:{},data:i}))?a:"")+</code></pre>\n
"+(null!=(a=(n.if"if").call(o,null!=t?t.isParam:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+
\n </div>\n"},7:function(e,t,n,r,i){var a;return"
"+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=t?t.signature:t,{name:"escape",hash:{},
data:i}))?a:"")+"\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a;return
null!=(a=(n.ifCond||t&&t.ifCond||n.helperMissing).call(null!=t?t:{},null!=t?t.sampleJSON:t,"||",null!=t?t.sampleXM
L:t,{name:"ifCond",hash:{},fn:e.program(1,i,0),inverse:e.program(7,i,0),data:i}))?a:""},useData:!0}),t.status_code=
e({1:function(e,t,n,r,i){var
a,o,s=null!=t?t:{},l=n.helperMissing;return" <tr>\n
<td>"+e.escapeExpression((o=null!=(o=n.key||i&&i.key)?o:l,"function"===typeof
o?o.call(s,{name:"key",hash:{},data:i}):o))+</td>\n
<td>"+(null!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+
</td>\n
<td>"+(null!=(a=(n.escape||t&&t.escape||l).call(s,null!=t?t.type:t,{name:"escape",hash:{},data:i}))?a:"")+</td>\n
</tr>\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"<td
width='15%'
class='code'>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.code:t,{name:"escape",hash:{},data:i}))?a:"")+
</td>\n<td
class="markdown">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.message:t,{name:"escape",hash:{},data:i)
}))?a:"')+</td>\n<td width='50%'><span class="model-signature" /></td>\n<td class="headers">\n <table>\n
<tbody>\n'+(null!=(a=n.each.call(o,null!=t?t.headers:t,{name:"each",hash:{},fn:e.program(1,i,0),inverse:e.noop,data
:i}))?a:"")+
</tbody>\n </table>\n</td>"}),useData:!0})),($function){$.fn.vAlign=function(){return
this.each(function(){var e=$(this).height(),t=$(this).parent().height(),n=(t-e)/2;$(this).css("margin-
top",n)}),$.fn.stretchFormtasticInputWidthToParent=function(){return this.each(function(){var
e=$(this).closest("form").innerWidth(),t=parseInt($(this).closest("form").css("padding-
left"),10)+parseInt($(this).closest("form").css("padding-right"),10),n=parseInt($(this).css("padding-
left"),10)+parseInt($(this).css("padding-right"),10);$(this).css("width",e-t-n)}),$("form.formtastic li.string input,
form.formtastic textarea").stretchFormtasticInputWidthToParent(),$("ul.downplayed li div.content
p").vAlign(),$("form.sandbox").submit(function(){var e=!0;return
$(this).find("input.required").each(function(){$(this).removeClass("error"),""===$(this).val()&&$(this).addClass("
error"),$(this).wiggle(),e=!1}),e}),Function.prototype.bind&&console&&"object"===typeof
console.log&&["log","info","warn","error","assert","dir","clear","profile","profileEnd"].forEach(function(e){consol
e[e]=this.bind(console[e],console)},Function.prototype.call),window.Docs={shebang:function(){var
e=$.param.fragment().split("/");switch(e.shift(),e.length){case 1:if(e[0].length>0){var
t="resource_"+e[0];Docs.expandEndpointListForResource(e[0]),$("#"+t).slideto({highlight:!1})}break;case
2:Docs.expandEndpointListForResource(e[0]),$("#"+t).slideto({highlight:!1});var
n=e.join("_"),r=n+"_content";Docs.expandOperation($("#"+r),$("#"+n).slideto({highlight:!1})}),toggleEndpointLi
stForResource:function(e){var t=$("#li#resource_"+Docs.escapeResourceName(e)+"
ul.endpoints");t.is(":visible")?($.bbq.pushState("#/",2),Docs.collapseEndpointListForResource(e)):($.bbq.pushState(
"#/"+e,2),Docs.expandEndpointListForResource(e)),expandEndpointListForResource:function(e){var
e=Docs.escapeResourceName(e);if(""===e)return void $("<ul>.resource
ul.endpoints").slideDown();$("#li#resource_"+e).addClass("active");var t=$("#li#resource_"+e+"
ul.endpoints");t.slideDown(),collapseEndpointListForResource:function(e){var
e=Docs.escapeResourceName(e);if(""===e)return void $("<ul>.resource

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ul.endpoints").slideUp();$("li#resource_"+e).removeClass("active");var t=$("li#resource_"+e+"
ul.endpoints");t.slideUp(),expandOperationsForResource:function(e){return
Docs.expandEndpointListForResource(e,""===e?void $(" .resource ul.endpoints li.operation
div.content").slideDown():void $("li#resource_"+Docs.escapeResourceName(e)+" li.operation
div.content").each(function(){Docs.expandOperation($(this))}),collapseOperationsForResource:function(e){return
Docs.expandEndpointListForResource(e,""===e?void $(" .resource ul.endpoints li.operation
div.content").slideUp():void $("li#resource_"+Docs.escapeResourceName(e)+" li.operation
div.content").each(function(){Docs.collapseOperation($(this))}),escapeResourceName:function(e){return
e.replace(/["'#$%&'()*+.,/:;<=>?@\[\]\^\^{}~]/g,"\\$&")},expandOperation:function(e){e.slideDown()},collapseO
peration:function(e){e.slideUp()}},function(e,t){ "use
strict";"function"===typeof define&&define.amd?define(t):"object"===typeof
exports?module.exports=t():e.returnExports=t()}(this,function(){var
e,t,n=Array,r=n.prototype,i=Object,a=i.prototype,o=Function,s=o.prototype,l=String,u=l.prototype,c=Number,p=c.p
rototype,h=r.slice,f=r.splice,d=r.push,m=r.unshift,g=r.concat,y=r.join,v=s.call,b=s.apply,w=Math.max,_=Math.min,
x=a.toString,A="function"===typeof Symbol&&"symbol"===typeof
Symbol.toStringTag,S=Function.prototype.toString,j=/^\/s*class /,E=function(e){try{var
t=S.call(e),n=t.replace(/\/\./.*\n/g,""),r=n.replace(/\/\./.*\n/g,""),i=r.replace(/\/\n/gm," ").replace(/ {2}/g,"
");return j.test(i)}catch(a){return!1}},O=function(e){try{return!E(e)&&(S.call(e),!0)}catch(t){return!1}},k="[object
Function]",T="[object GeneratorFunction]",e=function(e){if(!e)return!1;if("function"!==typeof e&&"object"!==typeof
e)return!1;if(A)return O(e);if(E(e))return!1;var t=x.call(e);return
t===k||t===T},C=RegExp.prototype.exec,I=function(e){try{return C.call(e,!0)}catch(t){return!1}},D="[object
RegExp]";t=function(e){return"object"===typeof e&&(A?I(e):x.call(e)===D)};var
L,M=String.prototype.valueOf,R=function(e){try{return M.call(e,!0)}catch(t){return!1}},U="[object
String]";L=function(e){return"string"===typeof e||"object"===typeof e&&(A?R(e):x.call(e)===U)};var
P=i.defineProperty&&function(){try{var e={};i.defineProperty(e,"x",{enumerable:!1,value:e});for(var t in
e)return!1;return e.x===e}catch(n){return!1}}(),q=function(e){var t;return t=P?function(e,t,n,r){!r&&t in
e||i.defineProperty(e,t,{configurable:!0,enumerable:!1,writable:!0,value:n}):function(e,t,n,r){!r&&t in
e||e[t]=n}},function(n,r,i){for(var a in r)e.call(r,a)&&t(n,a,r[a],i)}(a.hasOwnProperty),B=function(e){var t=typeof
e;return null===e||"object"!==t&&"function"!==t},N=c.isNaN||function(e){return
e!==e},z={ToInteger:function(e){var
t+=e;return N(t)?t=0:0!==(t&&t!==(1/0)&&t!==(1/0)&&(t=(t>0||-
1)*Math.floor(Math.abs(t))),t),ToPrimitive:function(t){var n,r,i;if(B(t))return
t;if(r=t.valueOf,e(r)&&(n=r.call(t),B(n)))return n;if(i=t.toString,e(i)&&(n=i.call(t),B(n)))return n;throw new
TypeError},ToObject:function(e){if(null===e)throw new TypeError("can't convert "+e+" to object");return
i(e)},ToUint32:function(e){return e>>>0}},$=function(){},q(s,{bind:function(t){var n=this;if(!e(n))throw new
TypeError("Function.prototype.bind called on incompatible "+n);for(var r,a=h.call(arguments,1),s=function(){if(this
instanceof r){var e=b.call(n,this,g.call(a,h.call(arguments)));return i(e)===e?e:this}return
b.call(n,t,g.call(a,h.call(arguments)))},l=w(0,n.length-a.length),u=[],c=0;c<l;c++)d.call(u,"$"+c);return
r=o("binder","return function ("+y.call(u,"")+"){ return binder.apply(this, arguments);
}")(s),n.prototype&&($.prototype=n.prototype,r.prototype=new $,$.prototype=null),r}});var
F=v.bind(a.hasOwnProperty),V=v.bind(a.toString),H=v.bind(h),Y=b.bind(h),J=v.bind(u.slice),W=v.bind(u.split),Q=
v.bind(u.indexOf),G=v.bind(d),K=v.bind(a.propertyIsEnumerable),X=v.bind(r.sort),Z=n.isArray||function(e){return
"[object
Array]"===V(e)},ee=!1==[],unshift(0);q(r,{unshift:function(){return
m.apply(this,arguments),this.length}},ee),q(n,{isArray:Z});var te=i("a"),ne="a"!==te[0]||!(0 in
te),re=function(e){var t=!0,n=!0,r=!1;if(e)try{e.call("foo",function(e,n,r){"object"!==typeof
r&&(t=!1)}),e.call([1],function(){ "use strict";n="string"===typeof
this,"x"})}catch(i){r=!0}return!!e&&!r&&t&&n};q(r,{forEach:function(t){var

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n,r=z.ToObject(this),i=ne&&L(this)?W(this,""):r,a=-
1,o=z.ToUint32(i.length);if(arguments.length>1&&(n=arguments[1]),!e(t))throw new
TypeError("Array.prototype.forEach callback must be a function");for(++a<o;a in i&&("undefined"===typeof
n?t(i[a],a,r):t.call(n,i[a],a,r)))},!re(r.forEach)),q(r,{map:function(t){var
r,i=z.ToObject(this),a=ne&&L(this)?W(this,""):i,o=z.ToUint32(a.length),s=n(o);if(arguments.length>1&&(r=argum
ents[1]),!e(t))throw
new TypeError("Array.prototype.map callback must be a function");for(var l=0;l<o;l++)l in
a&&("undefined"===typeof r?s[l]=t(a[l],l,i):s[l]=t.call(r,a[l],l,i));return s}},!re(r.map)),q(r,{filter:function(t){var
n,r,i=z.ToObject(this),a=ne&&L(this)?W(this,""):i,o=z.ToUint32(a.length),s=[];if(arguments.length>1&&(r=argum
ents[1]),!e(t))throw new TypeError("Array.prototype.filter callback must be a function");for(var l=0;l<o;l++)l in
a&&(n=a[l],("undefined"===typeof r?t(n,l,i):t.call(r,n,l,i))&&G(s,n));return
s}},!re(r.filter)),q(r,{every:function(t){var
n,r=z.ToObject(this),i=ne&&L(this)?W(this,""):r,a=z.ToUint32(i.length);if(arguments.length>1&&(n=arguments[1
]),!e(t))throw new TypeError("Array.prototype.every callback must be a function");for(var o=0;o<a;o++)if(o in
i&&!("undefined"===typeof n?t(i[o],o,r):t.call(n,i[o],o,r)))return!1;return!0}},!re(r.every)),q(r,{some:function(t){var
n,r=z.ToObject(this),i=ne&&L(this)?W(this,""):r,a=z.ToUint32(i.length);if(arguments.length>1&&(n=arguments[1
]),!e(t))throw
new TypeError("Array.prototype.some callback must be a function");for(var o=0;o<a;o++)if(o in
i&&("undefined"===typeof n?t(i[o],o,r):t.call(n,i[o],o,r)))return!0;return!1}},!re(r.some));var
ie=!1;r.reduce&&(ie="object"===typeof r.reduce.call("es5",function(e,t,n,r){return r})),q(r,{reduce:function(t){var
n=z.ToObject(this),r=ne&&L(this)?W(this,""):n,i=z.ToUint32(r.length);if(!e(t))throw new
TypeError("Array.prototype.reduce callback must be a function");if(0===i&&1===arguments.length)throw new
TypeError("reduce of empty array with no initial value");var a,o=0;if(arguments.length>=2)a=arguments[1];else
for(;;){if(o in r){a=r[o++];break}if(++o>=i)throw new TypeError("reduce of empty array with no initial
value")};for(;o<i;o++)o in r&&(a=t(a,r[o],o,n));return a}},!ie);var ae=!1;r.reduceRight&&(ae="object"===typeof
r.reduceRight.call("es5",function(e,t,n,r){return r})),q(r,{reduceRight:function(t){var
n=z.ToObject(this),r=ne&&L(this)?W(this,""):n,i=z.ToUint32(r.length);if(!e(t))throw
new TypeError("Array.prototype.reduceRight callback must be a
function");if(0===i&&1===arguments.length)throw new TypeError("reduceRight of empty array with no initial
value");var a,o=i-1;if(arguments.length>=2)a=arguments[1];else for(;;){if(o in r){a=r[o--];break}if(--o<0)throw new
TypeError("reduceRight of empty array with no initial value")};if(o<0)return a;do o in r&&(a=t(a,r[o],o,n));while(o-
-);return a}},!ae);var oe=r.indexOf&&[0,1].indexOf(1,2)!=-1;q(r,{indexOf:function(e){var
t=ne&&L(this)?W(this,""):z.ToObject(this),n=z.ToUint32(t.length);if(0===n)return-1;var
r=0;for(arguments.length>1&&(r=z.ToInteger(arguments[1])),r=r>=0?r:w(0,n+r);r<n;r++)if(r in
t&&t[r]===e)return r;return-1}},oe);var se=r.lastIndexOf&&[0,1].lastIndexOf(0,-3)!=-
1;q(r,{lastIndexOf:function(e){var
t=ne&&L(this)?W(this,""):z.ToObject(this),n=z.ToUint32(t.length);if(0===n)return-1;var r=n-
1;for(arguments.length>1&&(r=_r(z.ToInteger(arguments[1])),r=r>=0?r:n-Math.abs(r);r>=0;r--)}if(r
in t&&e===t[r])return r;return-1}},se);var le=function(){var e=[1,2],t=e.splice();return
2===e.length&&Z(t)&&0===t.length}();q(r,{splice:function(e,t){return
0===arguments.length?f.apply(this,arguments)}},!le);var ue=function(){var e={};return
r.splice.call(e,0,0,1),1===e.length}();q(r,{splice:function(e,t){if(0===arguments.length)return[];var
n=arguments;return this.length=w(z.ToInteger(this.length),0),arguments.length>0&&"number"!==typeof
t&&(n=H(arguments),n.length<2?G(n,this.length-e):n[1]=z.ToInteger(t)),f.apply(this,n)}},!ue);var
ce=function(){var e=new n(1e5);return e[8]="x",e.splice(1,1,7===e.indexOf("x"))(),pe=function(){var
e=256,t=[];return t[e]="a",t.splice(e+1,0,"b"),"a"===t[e]}();q(r,{splice:function(e,t){for(var
n,r=z.ToObject(this),i=[],a=z.ToUint32(r.length),o=z.ToInteger(e),s=o<0?w(a+o,0):_(o,a),u=_r(w(z.ToInteger(t),0),a
-s),c=0;c<u;n=l(s+c),F(r,n)&&(i[c]=r[n]),c+=1;var p,h=H(arguments,2),f=h.length;if(f<u){c=s;for(var d=a-

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u;c<d;n=l(c+u),p=l(c+f),F(r,n)?r[p]=r[n]:delete
r[p],c+=1;c=a;for(var m=a-u+f;c>m;)delete r[c-1],c-=1 else if(f>u)for(c=a-u;c>s;n=l(c+u-1),p=l(c+f-
1),F(r,n)?r[p]=r[n]:delete r[p],c-=1;c=s;for(var g=0;g<h.length;++g)r[c]=h[g],c+=1;return r.length=a-
u+f,i } ,!ce||!pe);var
he,fe=r.join;try{he="1,2,3"!==Array.prototype.join.call("123","")}catch(de){he=!0}he&&q(r,{join:function(e){var
t="undefined"===typeof e?,"":e;return fe.call(L(this)?W(this,""):this,t)},he);var me="1,2"!==[1,2].join(void
0);me&&q(r,{join:function(e){var t="undefined"===typeof e?,"":e;return fe.call(this,t)},me);var
ge=function(e){for(var
t=z.ToObject(this),n=z.ToUint32(t.length),r=0;r<arguments.length;t[n+r]=arguments[r],r+=1;return
t.length=n+r,n+r},ye=function(){var e={},t=Array.prototype.push.call(e,void 0);return
1!==t||1!==e.length||"undefined"!==typeof e[0]||!F(e,0)}();q(r,{push:function(e){return
Z(this)?d.apply(this,arguments):ge.apply(this,arguments)},ye);var ve=function(){var e=[],t=e.push(void 0);return
1!==t||1!==e.length||"undefined"!==typeof
e[0]||!F(e,0)}();q(r,{push:ge},ve),q(r,{slice:function(e,t){var n=L(this)?W(this,""):this;return
Y(n,arguments)},ne);var
be=function(){try{return[1,2].sort(null),[1,2].sort({}),!0}catch(e){}return!1}(),we=function(){try{return[1,2].sort(/a
/),!1}catch(e){}return!0}(),_e=function(){try{return[1,2].sort(void
0),!0}catch(e){}return!1}();q(r,{sort:function(t){if("undefined"===typeof t)return X(this);if(!e(t))throw new
TypeError("Array.prototype.sort callback must be a function");return X(this,t)},be||!_e||!we);var
xe=!K({toString:null},"toString"),Ae=K(function(){},"prototype"),Se=!F("x","0"),je=function(e){var
t=e.constructor;return
t&&t.prototype===e},Ee={$window:!0,$console:!0,$parent:!0,$self:!0,$frame:!0,$frames:!0,$frameElement:!0,$we
bkitIndexedDB:!0,$webkitStorageInfo:!0,$external:!0},Oe=function(){if("undefined"===typeof
window)return!1;for(var e in window)try{!Ee["$"+e]&&F(window,e)&&null!===window[e]&&"object"===typeof
window[e]&&je(window[e])}catch(t){return!0}return!1}(),ke=function(e){if("undefined"===typeof
window||!Oe)return je(e);try{return
je(e)}catch(t){return!1}},Te=["toString","toLocaleString","valueOf","hasOwnProperty","isPrototypeOf","propertyIs
Enumerable","constructor"],Ce=Te.length,Ie=function(e){return"[object
Arguments]"===V(e)},De=function(t){return null!===t&&"object"===typeof t&&"number"===typeof
t.length&&t.length>=0&&!Z(t)&&e(t.callee)},Le=Ie(arguments)?Ie:De;q(i,{keys:function(t){var
n=e(t),r=Le(t),i=null!===t&&"object"===typeof t,a=i&&L(t);if(!i&&!n&&!r)throw new TypeError("Object.keys
called on a non-object");var o=[],s=Ae&&n;if(a&&Se||r)for(var u=0;u<t.length;++u)G(o,l(u));if(!r)for(var c in
t)s&&"prototype"===c||!F(t,c)||G(o,l(c));if(xe)for(var p=ke(t),h=0;h<Ce;h++){var
f=Te[h];p&&"constructor"===f||!F(t,f)||G(o,f)}return o});var Me=i.keys&&function(){return
2===i.keys(arguments).length}(1,2),Re=i.keys&&function(){var e=i.keys(arguments);return
1!==arguments.length||1!==e.length||1!==e[0]}(1),Ue=i.keys;q(i,{keys:function(e){return
Ue(Le(e)?H(e):e)},!Me||Re);var
Pe,qe,Be=0!===new Date((-0xc782b5b342b24)).getUTCMonth(),Ne=new Date((-0x55d318d56a724)),ze=new
Date(14496624e5),Se="Mon, 01 Jan -45875 11:59:59
GMT"!==Ne.toUTCString(),Fe=Ne.getTimezoneOffset();Fe<-720?(Pe="Tue Jan 02 -
45875"!==Ne.toString(),qe=!/^Thu Dec 10 2015 \d\d:\d\d:\d\d GMT[-+]\d\d:\d\d(?
:
$)/.test(ze.toString())):(Pe="Mon Jan 01 -45875"!==Ne.toString(),qe=!/^Wed Dec 09 2015 \d\d:\d\d:\d\d
GMT[-+]\d\d:\d\d(?
:
$)/.test(ze.toString()));var
Ve=v.bind(Date.prototype.getFullYear),He=v.bind(Date.prototype.getMonth),Ye=v.bind(Date.prototype.getDate),Je
=v.bind(Date.prototype.getUTCFullYear),We=v.bind(Date.prototype.getUTCMonth),Qe=v.bind(Date.prototype.get
UTCDate),Ge=v.bind(Date.prototype.getUTCDate),Ke=v.bind(Date.prototype.getUTCHours),Xe=v.bind(Date.proto
type.getUTCMinutes),Ze=v.bind(Date.prototype.getUTCSeconds),et=v.bind(Date.prototype.getUTCMilliseconds),tt
=["Sun","Mon","Tue","Wed","Thu","Fri","Sat"],nt=["Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct

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", "Nov", "Dec"], rt=function(e, t) { return
  Ye(new Date(t, e, 0)); q(Date.prototype, { getFullYear: function() { if (!(this && this instanceof Date)) throw new
  TypeError("this is not a Date object."); var e = Ve(this); return
  e < 0 && He(this) > 11 ? e + 1 : e }, getMonth: function() { if (!(this && this instanceof Date)) throw new TypeError("this is not
  a Date object."); var e = Ve(this), t = He(this); return e < 0 && t > 11 ? 0 : t }, getDate: function() { if (!(this && this instanceof
  Date)) throw new TypeError("this is not a Date object."); var
  e = Ve(this), t = He(this), n = Ye(this); if (e < 0 && t > 11) { if (12 === t) return n; var r = rt(0, e + 1); return r - n + 1 } return
  n }, getUTCFullYear: function() { if (!(this && this instanceof Date)) throw new TypeError("this is not a Date
  object."); var e = Je(this); return e < 0 && We(this) > 11 ? e + 1 : e }, getUTCMonth: function() { if (!(this && this instanceof
  Date)) throw new TypeError("this is not a Date object."); var e = Je(this), t = We(this); return
  e < 0 && t > 11 ? 0 : t }, getUTCDate: function() { if (!(this && this instanceof Date)) throw new TypeError("this
  is not a Date object."); var e = Je(this), t = We(this), n = Qe(this); if (e < 0 && t > 11) { if (12 === t) return n; var
  r = rt(0, e + 1); return r - n + 1 } return n }, Be), q(Date.prototype, { toUTCString: function() { if (!(this && this instanceof
  Date)) throw new TypeError("this is not a Date object."); var
  e = Ge(this), t = Qe(this), n = We(this), r = Je(this), i = Ke(this), a = Xe(this), o = Ze(this); return tt[e] + " " + (t < 10 ? "0" : t) + "
  " + nt[n] + " " + r + " " + (i < 10 ? "0" : i) + " " + (a < 10 ? "0" : a) + " " + (o < 10 ? "0" : o) + "
  GMT" }, Be || $e), q(Date.prototype, { toString: function() { if (!(this && this instanceof Date)) throw new
  TypeError("this is not a Date object."); var
  e = this.getDay(), t = this.getDate(), n = this.getMonth(), r = this.getFullYear(); return tt[e] + " " + nt[n] + " " + (t < 10 ? "0" : t) + "
  " + r }, Be || Pe), (Be || qe) && (Date.prototype.toString = function() { if (!(this && this instanceof Date)) throw new
  TypeError("this is not a Date object."); var
  e = this.getDay(), t = this.getDate(), n = this.getMonth(), r = this.getFullYear(), i = this.getHours(), a = this.getMinutes(), o = this
  .getSeconds(), s = this.getTimezoneOffset(), l = Math.floor(Math.abs(s) / 60), u = Math.floor(Math.abs(s) % 60); return
  tt[e] + " " + nt[n] + " " + (t < 10 ? "0" : t) + " " + r + " " + (i < 10 ? "0" : i) + " " + (a < 10 ? "0" : a) + " " + (o < 10 ? "0" : o) + "
  GMT" + (s > 0 ? "-"
  ":" + ") + (l < 10 ? "0" : l) + (u < 10 ? "0" : u); P && i.defineProperty(Date.prototype, "toString", { configurable: !0, enumerable:
  !1, writable: !0 }); var it = -621987552e5, at = "-000001", ot = Date.prototype.toISOString && new
  Date(it).toISOString().indexOf(at) === -1, st = Date.prototype.toISOString && "1969-12-31T23:59:59.999Z" !== new
  Date((-
  1)).toISOString(), lt = v.bind(Date.prototype.getTime); q(Date.prototype, { toISOString: function() { if (!isFinite(this)) || !isF
  inite(lt(this)) throw new RangeError("Date.prototype.toISOString called on non-finite value."); var
  e = Je(this), t = We(this); e += Math.floor(t / 12), t = (t % 12 + 12) % 12; var
  n = [t + 1, Qe(this), Ke(this), Xe(this), Ze(this)]; e = (e < 0 ? "-" : e > 9999 ? "+" : "") + J("00000" + Math.abs(e), 0 <= e && e <= 9999 ? -
  4 : -6); for (var r = 0; r < n.length; ++r) n[r] = J("00" + n[r], -2); return e + "-" + H(n, 0, 2).join("-"
  ") + "T" + H(n, 2).join(":") + "." + J("000" + et(this), -3) + "Z" }, ot || st); var
  ut = function() { try { return Date.prototype.toJSON && null === new Date(NaN).toJSON() && new
  Date(it).toJSON().indexOf(at) !== -
  1 && Date.prototype.toJSON.call({ toISOString: function() { return !0 } }) } catch (e) { return !1 } }; ut || (Date.prototype.toJ
  SON = function(t) { var n = i(this), r = z.ToPrimitive(n); if ("number" === typeof r && !isFinite(r)) return null; var
  a = n.toISOString; if (!e(a)) throw new TypeError("toISOString property is not callable"); return a.call(n); }); var
  ct = 1e15 === Date.parse("+033658-09-27T01:46:40.000Z"), pt = !isNaN(Date.parse("2012-04-
  04T24:00:00.500Z")) || !isNaN(Date.parse("2012-11-31T23:59:59.000Z")) || !isNaN(Date.parse("2012-12-
  31T23:59:60.000Z")), ht = !isNaN(Date.parse("2000-01-01T00:00:00.000Z")); if (ht || pt || ct) { var ft = Math.pow(2, 31) -
  1, dt = N(new Date(1970, 0, 1, 0, 0, 0, ft + 1).getTime()); Date = function(e) { var t = function(n, r, i, a, o, s, u) { var
  c, p = arguments.length; if (this instanceof e) { var h = s, f = u; if (dt && p >= 7 && u > ft) { var
  d = Math.floor(u / ft) * ft, m = Math.floor(d / 1e3); h += m, f -= 1e3 * m } c = 1 === p && l(n) === n ? new
  e(t.parse(n)) : p >= 7 ? new e(n, r, i, a, o, h, f) : p >= 6 ? new e(n, r, i, a, o, h) : p >= 5 ? new e(n, r, i, a, o) : p >= 4 ? new e(n, r, i, a) : p >= 3 ? new
  e(n, r, i) : p >= 2 ? new e(n, r) : p >= 1 ? new e(n instanceof e ? +n : n) : new e;

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}else c=e.apply(this,arguments);return B(c)||q(c,{constructor:t,!0},c),n=new RegExp("^(\\d{4}|[+-]\\d{6})(?:-
(\\d{2})(?:-(\\d{2})(?:T(\\d{2}):\\d{2})(?::(\\d{2})(?:\\.(\\d{1,}))?)?(Z|(?:(-
+))\\d{2}):\\d{2}))"?$"),r=[0,31,59,90,120,151,181,212,243,273,304,334,365],i=function(e,t){var
n=t>1?1:0;return r[t]+Math.floor((e-1969+n)/4)-Math.floor((e-1901+n)/100)+Math.floor((e-1601+n)/400)+365*(e-
1970)},a=function(t){var n=0,r=t;if(dt&&r>ft){var i=Math.floor(r/ft)*ft,a=Math.floor(i/1e3);n+=a,r-=1e3*a}return
c(new e(1970,0,1,0,0,n,r))};for(var o in
e)F(e,o)&&(t[o]=e[o]);q(t,{now:e.now,UTC:e.UTC,!0},t.prototype=e.prototype,q(t.prototype,{constructor:t,!0});va
r s=function(t){var r=n.exec(t);if(r){var o,s=c(r[1]),l=c(r[2]|1)-1,u=c(r[3]|1)-
1,p=c(r[4]|0),h=c(r[5]|0),f=c(r[6]|0),d=Math.floor(1e3*c(r[7]|0)),m=Boolean(r[4]&&!r[8]),g="-"===r[9]?1:-
1,y=c(r[10]|0),v=c(r[11]|0),b=h>0||f>0||d>0;return
p<(b?24:25)&&h<60&&f<60&&d<1e3&&l>-1&&l<12&&y<24&&v<60&&u>-1&&u<i(s,l+1)-
i(s,l)&&(o=60*(24*(i(s,l)+u)+p+y*g),o=1e3*(60*(o+h+v*g)+f)+d,m&&(o=a(o)),
864e13<=o&&o<=864e13)?o:NaN}return e.parse.apply(this,arguments)};return
q(t,{parse:s},t)(Date)}Date.now||(Date.now=function(){return(new Date).getTime()});var
mt=p.toFixed&&("0.000"!==8e-
5.toFixed(3))||"1"!==.9.toFixed(0))||"1.25"!==1.255.toFixed(2))||"1000000000000000128"!==(0xde0b6b3a7640080).to
Fixed(0)),gt={base:1e7,size:6,data:[0,0,0,0,0],multiply:function(e,t){for(var n=-
1,r=t;++n<gt.size;r+=e*gt.data[n],gt.data[n]=r%gt.base,r=Math.floor(r/gt.base)},divide:function(e){for(var
t=gt.size,n=0;--t>=0;n+=gt.data[t],gt.data[t]=Math.floor(n/e),n=n%e*gt.base},numToString:function(){for(var
e=gt.size,t="";--e>=0;if("!"==t||0===e||0===gt.data[e]){var n=l(gt.data[e]);"!"===t?t=n:t+=J("0000000",0,7-
n.length)+n}return t},pow:function Ut(e,t,n){return
0===t?t:n:t%2===1?Ut(e,t-1,n*e):Ut(e*t,e,t/2,n)},log:function(e){for(var
t=0,n=e;n>=4096;t+=12,n/=4096;for(;n>=2;t+=1,n/=2;return t)},yt=function(e){var
t,n,r,i,a,o,s,u;if(t=c(e),t=N(t)?0:Math.floor(t),t<0||t>20)throw new RangeError("Number.toFixed called with invalid
number of decimals");if(n=c(this),N(n))return"NaN";if(n<=-1e21||n>=1e21)return l(n);if(r="",n<0&&(r="-",n=-
n),i="0",n>1e-21)if(a=gt.log(n*gt.pow(2,69,1))-69,o=a<0?n*gt.pow(2,-
a,1):n/gt.pow(2,a,1),o*=4503599627370496,a=52-a,a>0){for(gt.multiply(0,o),s=t;s>=7;gt.multiply(1e7,0),s-
=7;for(gt.multiply(gt.pow(10,s,1),0),s=a-1;s>=23;gt.divide(1<<23),s-
=23;gt.divide(1<<s),gt.multiply(1,1),gt.divide(2),i=gt.numToString()}else gt.multiply(0,o),gt.multiply(1<<-
a,0),i=gt.numToString()+J("0.00000000000000000000",2,2+t);return
t>0?(u=i.length,i=u<t?r+J("0.00000000000000000000",0,t-u+2)+i:r+J(i,0,u-t)+".")+J(i,u-
t):i=r+i,i};q(p,{toFixed:yt},mt);var vt=function(){try{return"1"===1..toPrecision(void
0)}catch(e){return!0}}(),bt=p.toPrecision;q(p,{toPrecision:function(e){return"undefined"===typeof
e?bt.call(this):bt.call(this,e)}},vt),2!="ab".split(/(?:ab)*/).length||4!=".".split(/(?:.)/).length||"t"===
"tesst".split(/(s)*/)[1]||4!="test".split(/(?:/,-1).length||"".split(/(?:/).length||".split(/()/).length>1?!function(){var
e="undefined"===typeof(/)??/.exec("")[1],n=Math.pow(2,32)-1;u.split=function(r,i){var
a=String(this);if("undefined"===typeof r&&0===i)return[];if(!t(r))return W(this,r,i);var
o,s,l,u,c=[],p=(r.ignoreCase?"i":"")+r.multiline?"m":"")+r.unicode?"u":"")+r.sticky?"y":""),h=0,f=new
RegExp(r.source,p+"g");e||(o=new RegExp("^+f.source+"$(!s)",p));var m="undefined"===typeof
i?n.z.ToUint32(i);for(s=f.exec(a);s&&(l=s.index+s[0].length,!l>h&&(G(c,J(a,h,s.index)),!e&&s.length>1&&s[0].r
eplace(o,function(){for(var e=1;e<arguments.length-2;e++)"undefined"===typeof arguments[e]&&(s[e]=void
0)}),s.length>1&&s.index<a.length&&d.apply(c,H(s,1)),u=s[0].length,h=l,c.length>=m));f.lastIndex===s.index&
&f.lastIndex++,s=f.exec(a);return
h===a.length?!u&&f.test("")||G(c,""):G(c,J(a,h)),c.length>=m?H(c,0,m):c}}():"0".split(void
0,0).length&&(u.split=function(e,t){return"undefined"===typeof e&&0===t?[]:W(this,e,t)});var
wt=u.replace,_t=function(){var
e=[];return"x".replace(/x(?:/g,function(t,n){G(e,n)}),1===e.length&&"undefined"===typeof
e[0]});_t(u.replace=function(n,r){var i=e(r),a=t(n)&&^)[*?]/.test(n.source);if(i&&a){var o=function(e){var

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t=arguments.length,i=n.lastIndexOf;n.lastIndexOf=0;var a=n.exec(e)||[];return n.lastIndexOf=i,G(a,arguments[t-
2],arguments[t-1]),r.apply(this,a);return wt.call(this,n,o)}return wt.call(this,n,r));var
xt=u.substr,At="" .substr&&"b"!="0b" .substr(-1);q(u,{substr:function(e,t){var n=e;return
e<0&&(n=w(this.length+e,0)),xt.call(this,n,t)}},At);var St="\t\n\x0B\r
\u2028\u2029\ufeff",jt="",Et="["+St+"]",Ot=new RegExp("^+Et+Et+*"),kt=new
RegExp(Et+Et+*"$"),Tt=u.trim&&(St.trim()||jt.trim());q(u,{trim:function(){if("undefined"===typeof
this|null===this)throw new TypeError("can't convert "+this+" to object");return
l(this).replace(Ot,"").replace(kt,"")}},Tt);var
Ct=v.bind(String.prototype.trim),It=u.lastIndexOf&&"abc" .lastIndexOf("",2)!==
1;q(u,{lastIndexOf:function(e){if("undefined"===typeof this|null===this)throw new TypeError("can't convert
"+this+" to object");for(var
t=l(this),n=l(e),r=arguments.length>1?c(arguments[1]):NaN,i=N(r)?1/0:z.ToInteger(r),a=(w(i,0),t.length),o=n.length
h,s=a+o;s>0){s=w(0,s-o);var u=Q(J(t,s,a+o),n);if(u!==-1)return s+u}return-1}},It);var
Dt=u.lastIndexOf;if(q(u,{lastIndexOf:function(e){return
Dt.apply(this,arguments)}},1!==u.lastIndexOf.length),8===parseInt(St+"08")&&22===parseInt(St+"0x16"))|(parseInt=
function(e){var t=/^[+-]?0[xX]/;return function(n,r){var i=Ct(String(n)),a=c(r)|(t.test(i)?16:10);return
e(i,a)}(parseInt)),1/parseFloat("-0")!==(1/0)&&(parseFloat=function(e){return function(t){var
n=Ct(String(t)),r=e(n);return 0===r&&"-"===J(n,0,1)?-0:r}(parseFloat)),"RangeError:
test"!==String(new RangeError("test"))){var Lt=function(){if("undefined"===typeof this|null===this)throw new
TypeError("can't convert "+this+" to object");var e=this.name;"undefined"===typeof e?e="Error":"string"!==typeof
e&&(e=l(e));var t=this.message;return"undefined"===typeof t?t="":"string"!==typeof t&&(t=l(t)),e?t?e+":
"+t:e:t};Error.prototype.toString=Lt;if(P){var Mt=function(e,t){if(K(e,t)){var
n=Object.getOwnPropertyDescriptor(e,t);n.configurable&&(n.enumerable=!1,Object.defineProperty(e,t,n))};Mt(Error.
prototype,"message"),""!==Error.prototype.message&&(Error.prototype.message=""),Mt(Error.prototype,"name
")}if("/a/gim"!==String(/a/gim)){var Rt=function(){var e="/" +this.source+"/";return
this.global&&(e+="g"),this.ignoreCase&&(e+="i"),this.multiline&&(e+="m"),e};RegExp.prototype.toString=Rt)})
,Handlebars.registerHelper("sanitize",function(e){var t;return void
0===e?"":(t=sanitizeHtml(e,{allowedTags:["div","span","b","i","em","strong","a"],allowedAttributes:{div:["class"],
span:["class"],a:["href"]}}),new
Handlebars.SafeString(t))),Handlebars.registerHelper("renderTextParam",function(e){var
t,n="text",r="",i=e.type|e.schema&&e.schema.type||"",a="array"===i.toLowercase()|e.allowMultiple,o=a&&Array
.isArray(e["default"])?e["default"].join("\n"):e["default"],s=Handlebars.Utils.escapeExpression(e.name),l=Handleba
rs.Utils.escapeExpression(e.valueId),i=Handlebars.Utils.escapeExpression(i);var
u=Object.keys(e).filter(function(e){return null!==e.match(/X-data-/)}).reduce(function(t,n){return t+="
"+n.substring(2,n.length)+"="+e[n]+""}, "");if(e.format&&"password"===e.format&&(n="password"),l&&(r="
id="+l+""),o=o?sanitizeHtml(o):"",a)t="<textarea class='body-textarea'+(e.required?" required":"")+
name="+s+""+r+u,t+=" placeholder='Provide multiple values in new lines'+(e.required?" (at least one
required).":".)"+"">,t+=o+""</textarea>;else{var c="parameter";e.required&&(c+=" required"),t="<input
class="+c+"" minlength="+e.required?1:0+""",t+="
name="+s+"" placeholder="+e.required?"(required)":"")+""+r+u,t+=" type="+n+"" value="+o+""/>}return new
Handlebars.SafeString(t)),Handlebars.registerHelper("ifCond",function(e,t,n,r){switch(t){case"===":return
e===n?r.fn(this):r.inverse(this);case"===":return e===n?r.fn(this):r.inverse(this);case"<":return
e<n?r.fn(this):r.inverse(this);case"<=":return e<=n?r.fn(this):r.inverse(this);case">":return
e>n?r.fn(this):r.inverse(this);case">=":return e>=n?r.fn(this):r.inverse(this);case"&&":return
e&&n?r.fn(this):r.inverse(this);case"||":return e||n?r.fn(this):r.inverse(this);default:return
r.inverse(this)}}),Handlebars.registerHelper("escape",function(e){var
t=Handlebars.Utils.escapeExpression(e);return new Handlebars.SafeString(t)},function(e){if("object"===typeof
exports&&"undefined"!==typeof module)module.exports=e();else if("function"===typeof

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define&&define.amddefine([],e);else{var t;"undefined"!typeof window?window:"undefined"!typeof
global?global:"undefined"!typeof
self?self:this,t.sanitizeHtml=e()}(function(){return function e(t,n,r){function i(o,s){if(!n[o]){if(!t[o]){var
l="function"==typeof require&&require;if(!s&&l)return l(o,!0);if(a)return a(o,!0);var u=new Error("Cannot find
module '"+o+"'");throw u.code="MODULE_NOT_FOUND",u}var
c=n[o]={exports:{}};t[o][0].call(c.exports,function(e){var n=t[o][1][e];return i(n?n:e)},c,c.exports,e,t,n,r)return
n[o].exports}for(var a="function"==typeof require&&require,o=0;o<r.length;o++)i(r[o]);return
i}({1:[function(e,t,n){function r(e,t){e&&Object.keys(e).forEach(function(n){t(e[n],n)})}function
i(e,t){return{.hasOwnProperty.call(e,t)}function a(e,t,n){function c(e,t){var
n=this;this.tag=e,this.attrs=t||{};this.tagPosition=d.length,this.text="",this.updateParentNodeText=function(){if(x.l
ength){var e=x[x.length-1];e.text+=n.text}}function p(e){return"string"!==typeof
e&&(e+=""),e.replace(/&/g,"&amp;").replace(/</g,"&lt;").replace(/>/g,"&gt;").replace(/"/g,"&quot;")}function
h(e,n){n=n.replace(/[\x00-\x20]+/g,""),n=n.replace(/<|\-|\-.*?|\-|\->/g,"");var r=n.match(/^(a-zA-
Z+):/);if(!r)return!1;var a=r[1].toLowerCase();return
i(t.allowedSchemesByTag,e)?t.allowedSchemesByTag[e].indexOf(a)===-
1:t.allowedSchemes||t.allowedSchemes.indexOf(a)===-1}function f(e,t){return
t?(e=e.split(/s+/),e.filter(function(e){return t.indexOf(e)===-1}).join(" ")):e}var
d="";t?(t=s(a.defaults,t),t.parser?t.parser=s(u,t.parser):t.parser=u):(t=a.defaults,t.parser=u);var
m,g,y=t.nonTextTags||["script","style","textarea"];t.allowedAttributes&&(m={},g={},r(t.allowedAttributes,function
(e,t){m[t]=[];var
n=[];e.forEach(function(e){e.indexOf("*")>=0?n.push(l(e).replace(/\\/g,"."):m[t].push(e)}),g[t]=new
RegExp("^"+n.join("|")+"$"));var
v={};r(t.allowedClasses,function(e,t){m&&(i(m,t)|(m[t]=[]),m[t].push("class")),v[t]=e});var
b,w={};r(t.transformTags,function(e,t){var n;"function"===typeof e?n=e:"string"===typeof
e&&(n=a.simpleTransform(e),"*"===t?b=n:w[t]=n);var _=0,x=[],A={},S={},j=!1,E=0,O=new
o.Parser({onopentag:function(e,n){if(j)return void E++;var a=new c(e,n);x.push(a);var
o,s=!1,l=!a.text;i(w,e)&&(o=w[e](e,n),a.attrs=n.o.attrs,void
0!==(o.text&&(a.innerHTML=o.text),e!==(o.tagName&&(a.name=e.o.tagName,S[_]=o.tagName)),b&&(o=b(e,n),a.att
ribs=n.o.attrs,e!==(o.tagName&&(a.name=e.o.tagName,S[_]=o.tagName)),t.allowedTags&&t.allowedTags.index
Of(e)===-1&&(s=!0,y.indexOf(e)===-
1&&(j=!0,E=1),A[_]=!0),_++,s||(d+="<"+e,!m||i(m,e)|m["*"])&&r(n,function(t,n){if(!m||i(m,e)&&m[e].indexOf(n
)!=-1|m["*"]&&m["*"].indexOf(n)!=-
1||i(g,e)&&g[e].test(n)|g["*"]&&g["*"].test(n)){if(("href"===n||"src"===n)&&h(e,t))return void delete
a.attrs[n];if("class"===n&&(t=f(t,v[e]),!t.length))return void delete a.attrs[n];d+="
"+n,t.length&&(d+="'"+p(t)+"")}else delete a.attrs[n]}),t.selfClosing.indexOf(e)===-1?d+="
/>":(d+=">",&a.innerHTML||!t.textFilter||(d+=a.innerHTML))),ontext:function(e){if(!j){var n,r=x[x.length-
1];if(r&&(n=r.tag,e=void 0!==(r.innerHTML?r.innerHTML:e),"script"===n||"style"===n)d+=e;else{var
i=p(e);d+=t.textFilter?t.textFilter(i):i}if(x.length){var a=x[x.length-
1];a.text+=e}},onclosetag:function(e){if(j){if(E--,E)return;j=!1}var n=x.pop();if(n){if(j=!1,--,A[_])return delete
A[_],void n.updateParentNodeText();if(S[_]&&(e=S[_],delete S[_]),t.exclusiveFilter&&t.exclusiveFilter(n))return
void(d=d.substr(0,n.tagPosition));n.updateParentNodeText(),t.selfClosing.indexOf(e)===-
1&&(d+="<"+e+">")}}},t.parser);return O.write(e),O.end(),d}var o=e("htmlparser2"),s=e("xtend"),l=e("regexp-
quote");t.exports=a;var
u={decodeEntities:!0};a.defaults={allowedTags:["h3","h4","h5","h6","blockquote","p","a","ul","ol","nl","li","b","i"
,"strong","em","strike","code","hr","br","div","table","thead","caption","tbody","tr","th","td","pre"],allowedAttribut
es:{a:["href","name","target"],img:["src"]},selfClosing:["img","br","hr","area","base","basefont","input","link","met
a"],allowedSchemes:["http","https","ftp","mailto"],allowedSchemesByTag:{},a.simpleTransform=function(e,t,n){r
return

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n=void 0===n||n,t=t||{ },function(r,i){ var a;if(n)for(a in t)i[a]=t[a];else
i=t;return{ tagName:e,attrs:i } } },{htmlparser2:36,"regexp-quote":54,xtend:58 }],2:[function(e,t,n){ "use
strict";function r(){ for(var
e="ABCDEFGHJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/",t=0,n=e.length;t<n;++t)
l[t]=e[t],u[e.charCodeAt(t)]=t;u["-".charCodeAt(0)]=62,u["_".charCodeAt(0)]=63 }function i(e){ var
t,n,r,i,a,o,s=e.length;if(s%4>0)throw new Error("Invalid string. Length must be a multiple of 4");a=""===e[s-
2]?2:""===e[s-1]?1:0,o=new c(3*s/4-a),r=a>0?s-4:s;var
l=0;for(t=0,n=0;t<r;t+=4,n+=3)i=u[e.charCodeAt(t)]<<18|u[e.charCodeAt(t+1)]<<12|u[e.charCodeAt(t+2)]<<6|u[e.
charCodeAt(t+3)],o[l++]=i>>16&255,o[l++]=i>>8&255,o[l++]=255&i;return
2===a?(i=u[e.charCodeAt(t)]<<2|u[e.charCodeAt(t+1)]>>4,o[l++]=255&i):1===a&&(i=u[e.charCodeAt(t)]<<10|u[
e.charCodeAt(t+1)]<<4|u[e.charCodeAt(t+2)]>>2,o[l++]=i>>8&255,o[l++]=255&i),o}function a(e){ return
l[e>>18&63]+l[e>>12&63]+l[e>>6&63]+l[63&e]}function
o(e,t,n){ for(var r,i=[],o=t;o<n;o+=3)r=(e[o]<<16)+(e[o+1]<<8)+e[o+2],i.push(a(r));return i.join("")}function
s(e){ for(var t,n=e.length,r=n%3,i="",a=[],s=16383,u=0,c=n-r;u<c;u+=s)a.push(o(e,u,u+s)>c?u+s));return
1===r?(t=e[n-1],i+=l[t>>2],i+=l[t<<4&63],i+="="):2===r&&(t=(e[n-2]<<8)+e[n-
1],i+=l[t>>10],i+=l[t>>4&63],i+=l[t<<2&63],i+="="),a.push(i),a.join("")}n.toByteArray=i,n.fromByteArray=s;var
l=[],u=[],c="undefined"!=typeof
Uint8Array?Uint8Array:Array;r()},{ },3:[function(e,t,n){ },{ },4:[function(e,t,n){ (function(t){ "use strict";var
r=e("buffer"),i=r.Buffer,a=r.SlowBuffer,o=r.kMaxLength|2147483647;n.alloc=function(e,t,n){ if("function"===typeo
f i.alloc)return i.alloc(e,t,n);if("number"===typeof n)throw new TypeError("encoding must not be
number");if("number"!=typeof e)throw new TypeError("size must be a number");if(e>o)throw new
RangeError("size is too large");var r=n,a=t;void 0===a&&(r=void 0,a=0);var s=new i(e);if("string"===typeof
a)for(var l=new i(a,r),u=l.length,c=-1;++c<e;){ s[c]=l[c%u];else
s.fill(a);return s },n.allocUnsafe=function(e){ if("function"===typeof i.allocUnsafe)return
i.allocUnsafe(e);if("number"!=typeof e)throw new TypeError("size must be a number");if(e>o)throw new
RangeError("size is too large");return new i(e) },n.from=function(e,n,r){ if("function"===typeof
i.from&&(l.Uint8Array||Uint8Array.from)!=i.from)return i.from(e,n,r);if("number"===typeof e)throw new
TypeError("'value' argument must not be a number");if("string"===typeof e)return new i(e,n);if("undefined"!=typeof
ArrayBuffer&&e instanceof ArrayBuffer){ var a=n;if(1===arguments.length)return new i(e);"undefined"===typeof
a&&(a=0);var o=r;if("undefined"===typeof o&&(o=e.byteLength-a),a>=e.byteLength)throw new
RangeError("'offset' is out of bounds");if(o>e.byteLength-a)throw new RangeError("'length' is out of
bounds");return new i(e.slice(a,a+o))}if(i.isBuffer(e)){ var s=new i(e.length);return
e.copy(s,0,0,e.length),s}if(e){ if(Array.isArray(e)||"undefined"!=typeof ArrayBuffer&&e.buffer
instanceof ArrayBuffer||"length" in e)return new i(e);if("Buffer"===e.type&&Array.isArray(e.data))return new
i(e.data)}throw new TypeError("First argument must be a string, Buffer, ArrayBuffer, Array, or array-like
object.") },n.allocUnsafeSlow=function(e){ if("function"===typeof i.allocUnsafeSlow)return
i.allocUnsafeSlow(e);if("number"!=typeof e)throw new TypeError("size must be a number");if(e>=o)throw new
RangeError("size is too large");return new a(e) } ).call(this,"undefined"!=typeof global?global:"undefined"!=typeof
self?self:"undefined"!=typeof window?window:{ } ),{ buffer:5 }],5:[function(e,t,n){ (function(t){ "use strict";function
r(){ try { var e=new Uint8Array(1);return e.__proto__={ __proto__:Uint8Array.prototype,foo:function(){ return
42 } },42===e.foo()&&"function"===typeof
e.subarray&&0===e.subarray(1,1).byteLength } catch(t){ return!1 } }function i(){ return
o.TYPED_ARRAY_SUPPORT?2147483647:1073741823}function a(e,t){ if(i(<t)throw new RangeError("Invalid
typed array length");return
o.TYPED_ARRAY_SUPPORT?(e=new Uint8Array(t),e.__proto__=o.prototype):(null===e&&(e=new
o(t)),e.length=t),e}function o(e,t,n){ if(!o.TYPED_ARRAY_SUPPORT||this instanceof o)return new
o(e,t,n);if("number"===typeof e){ if("string"===typeof t)throw new Error("If encoding is specified then the first
argument must be a string");return c(this,e)}return s(this,e,t,n)}function s(e,t,n,r){ if("number"===typeof t)throw new

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TypeError("value" argument must not be a number');return"undefined"!==typeof ArrayBuffer&&t instanceof
ArrayBuffer?f(e,t,n,r):"string"===typeof t?p(e,t,n):d(e,t)}function l(e){if("number"!==typeof e)throw new
TypeError("size" argument must be a number');if(e<0)throw new RangeError("size" argument must not be
negative')}}function u(e,t,n,r){return l(t),t<=0?a(e,t):void 0!=="string"===typeof
r?a(e,t).fill(n,r):a(e,t).fill(n):a(e,t)}function c(e,t){if(l(t),e=a(e,t<0?0:0|m(t)),!o.TYPED_ARRAY_SUPPORT)for(var
n=0;n<t;++n)e[n]=0;return e}function p(e,t,n){if("string"===typeof n&&"!=="n||(n="utf8"),!o.isEncoding(n))throw
new TypeError("encoding" must be a valid string encoding');var r=0|y(t,n);e=a(e,r);var i=e.write(t,n);return
i!=="r&&(e=e.slice(0,i)),e}function h(e,t){var n=t.length<0?0:0|m(t.length);e=a(e,n);for(var
r=0;r<n;r+=1)e[r]=255&t[r];return e}function f(e,t,n,r){if(t.byteLength,n<0||t.byteLength<n)throw new
RangeError("'offset' is out of bounds");if(t.byteLength<n+(r||0))throw new RangeError("'length' is out of
bounds");return t=void 0===n&&void 0===r?new Uint8Array(t):void 0===r?new Uint8Array(t,n):new
Uint8Array(t,n,r),o.TYPED_ARRAY_SUPPORT?(e=t,e.__proto__=o.prototype):e=h(e,t),e}function
d(e,t){if(o.isBuffer(t)){var n=0|m(t.length);return
e=a(e,n),0===e.length?e:(t.copy(e,0,0,n),e)}if(t){if("undefined"!==typeof ArrayBuffer&&t.buffer instanceof
ArrayBuffer||"length"in t)return"number"!==typeof
t.length||G(t.length)?a(e,0):h(e,t);if("Buffer"===t.type&&Z(t.data))return h(e,t.data)}throw new TypeError("First
argument must be a string, Buffer, ArrayBuffer,
Array, or array-like object.")}function m(e){if(e>=i())throw new RangeError("Attempt to allocate Buffer larger
than maximum size: 0x"+i().toString(16)+" bytes");return 0|e}function
g(e){return+e!=e&&(e=0),o.alloc(+e)}function y(e,t){if(o.isBuffer(e))return e.length;if("undefined"!==typeof
ArrayBuffer&&"function"===typeof ArrayBuffer.isView&&(ArrayBuffer.isView(e)||e instanceof
ArrayBuffer))return e.byteLength;"string"!==typeof e&&(e=""+e);var n=e.length;if(0===n)return 0;for(var
r=1;;)switch(t){case"ascii":case"latin1":case"binary":return n;case"utf8":case"utf-8":case void 0:return
H(e).length;case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return 2*n;case"hex":return
n>>>1;case"base64":return W(e).length;default:if(r)return H(e).length;t=""+t.toLowerCase(),r=!0}}function
v(e,t,n){var r=!1;if((void 0===t||t<0)&&(t=0),t>this.length)return"";if((void
0===n||n>this.length)&&(n=this.length),n<=0)return"";if(n>>>=0,t>>>=0,n<=t)return"";for(e||(e="utf8");;)switch(e
){case"hex":return L(this,t,n);case"utf8":case"utf-8":return
T(this,t,n);case"ascii":return I(this,t,n);case"latin1":case"binary":return D(this,t,n);case"base64":return
k(this,t,n);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return M(this,t,n);default:if(r)throw new
TypeError("Unknown encoding: "+e);e=(e+"").toLowerCase(),r=!0}}function b(e,t,n){var
r=e[t];e[t]=e[n],e[n]=r}function w(e,t,n,r,i){if(0===e.length)return-1;if("string"===typeof
n?(r=n,n=0):n>2147483647?n=2147483647:n<-2147483648&&(n=-
2147483648),n+=n,isNaN(n)&&(n=i?0:e.length-1),n<0&&(n=e.length+n),n>=e.length){if(i)return-1;n=e.length-
1}else if(n<0){if(!i)return-1;n=0}if("string"===typeof t&&(t=o.from(t,r)),o.isBuffer(t))return 0===t.length?-
1:_(e,t,n,r,i);if("number"===typeof t)return t=255&t,o.TYPED_ARRAY_SUPPORT&&"function"===typeof
Uint8Array.prototype.indexOf?i?Uint8Array.prototype.indexOf.call(e,t,n):Uint8Array.prototype.lastIndexOf.call(e,t
,n):_(e,[t],n,r,i);throw new TypeError("val must be string, number or Buffer")}function _(e,t,n,r,i){function
a(e,t){return 1===o?e[t]:e.readUInt16BE(t*o)}var o=1,s=e.length,l=t.length;if(void
0!=="r&&(r=String(r).toLowerCase(),"ucs2"===r||"ucs-2"===r||"utf16le"===r||"utf-
16le"===r)){if(e.length<2||t.length<2)return-1;o=2,s/=2,l/=2,n/=2}var u;if(i){var c=-
1;for(u=n;u<s;u++)if(a(e,u)===a(t,c===-1?0:u-c)){if(c===-1&&(c=u),u-c+1===l)return c*o}else c!==-1&&(u=-u-
c),c=-1}else for(n+1>s&&(n=s-1),u=n;u>=0;u--){for(var
p=!0,h=0;h<l;h++)if(a(e,u+h)!==a(t,h)){p=!1;break}if(p)return u}return-1}function x(e,t,n,r){n=Number(n)||0;var
i=e.length-n;r?(r=Number(r),r>i&&(r=i)):r=i;var a=t.length;if(a%2!=="0")throw new TypeError("Invalid hex
string");r>a/2&&(r=a/2);for(var o=0;o<r;++o){var s=parseInt(t.substr(2*o,2),16);if(isNaN(s))return
o;e[n+o]=s}return o}function A(e,t,n,r){return Q(H(t,e.length-n),e,n,r)}function S(e,t,n,r){return
Q(Y(t),e,n,r)}function j(e,t,n,r){return S(e,t,n,r)}function E(e,t,n,r){return Q(W(t),e,n,r)}function O(e,t,n,r){return

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Q(J(t,e.length-n),e,n,r)}function k(e,t,n){return
0===t&&n===e.length?K.fromByteArray(e):K.fromByteArray(e.slice(t,n))}function
T(e,t,n){n=Math.min(e.length,n);for(var r=[],i=t;i<n;){var
a=e[i],o=null,s=a>239?4:a>223?3:a>191?2:1;if(i+s<=n){var l,u,c,p;switch(s){case 1:a<128&&(o=a);break;case
2:l=e[i+1],128===(192&l)&&(p=(31&a)<<6|63&l,p>127&&(o=p));break;case
3:l=e[i+1],u=e[i+2],128===(192&l)&&128===(192&u)&&(p=(15&a)<<12|(63&l)<<6|63&u,p>2047&&(p<55296|
|p>57343)&&(o=p));break;case
4:l=e[i+1],u=e[i+2],c=e[i+3],128===(192&l)&&128===(192&u)&&128===(192&c)&&(p=(15&a)<<18|(63&l)<<
12|(63&u)<<6|63&c,p>65535&&p<1114112&&(o=p))}null===o?(o=65533,s=1):o>65535&&(o-
=65536,r.push(o>>>10&1023|55296),o=56320|1023&o),r.push(o),i+=s}return C(r)}function C(e){var
t=e.length;if(t<=e)return String.fromCharCode.apply(String,e);for(var
n="",r=0;r<t;n+=String.fromCharCode.apply(String,e.slice(r,r+=e)));return n}function I(e,t,n){var
r="";n=Math.min(e.length,n);for(var i=t;i<n;+i)r+=String.fromCharCode(127&e[i]);return r}function D(e,t,n){var
r="";n=Math.min(e.length,n);for(var
i=t;i<n;+i)r+=String.fromCharCode(e[i]);return r}function L(e,t,n){var
r=e.length;(!t|t<0)&&(t=0),(!n|n<0|n>r)&&(n=r);for(var i="",a=t;a<n;+a)i+=V(e[a]);return i}function
M(e,t,n){for(var r=e.slice(t,n),i="",a=0;a<r.length;a+=2)i+=String.fromCharCode(r[a]+256*r[a+1]);return
i}function R(e,t,n){if(e%1!|=0|e<0)throw new RangeError("offset is not uint");if(e+t>n)throw new
RangeError("Trying to access beyond buffer length")}function U(e,t,n,r,i,a){if(!o.isBuffer(e))throw new
TypeError("buffer" argument must be a Buffer instance);if(t>i|t<a)throw new RangeError("value" argument is out
of bounds);if(n+r>e.length)throw new RangeError("Index out of range")}function
P(e,t,n,r){t<0&&(t=65535+t+1);for(var i=0,a=Math.min(e.length-n,2);i<a;+i)e[n+i]=(t&255<<8*(r?i:1-
i))>>>8*(r?i:1-i)}function q(e,t,n,r){t<0&&(t=4294967295+t+1);for(var i=0,a=Math.min(e.length-
n,4);i<a;+i)e[n+i]=t>>>8*(r?i:3-i)&255}function B(e,t,n,r,i,a){if(n+r>e.length)throw new RangeError("Index
out of range");if(n<0)throw new RangeError("Index out of range")}function N(e,t,n,r,i){return
i||B(e,t,n,4,3.4028234663852886e38,-3.4028234663852886e38),X.write(e,t,n,r,23,4),n+4}function z(e,t,n,r,i){return
i||B(e,t,n,8,1.7976931348623157e308,-1.7976931348623157e308),X.write(e,t,n,r,52,8),n+8}function
$(e){if(e=F(e).replace(te,""),e.length<2)return "";for(;e.length%4!|=0;e+="");return e}function F(e){return
e.trim?e.trim():e.replace(/^\s+|\s+$/g,"")}function V(e){return e<16?"0"+e.toString(16):e.toString(16)}function
H(e,t){t=t||1/0;for(var
n,r=e.length,i=null,a=[],o=0;o<r;+o){if(n=e.charCodeAt(o),n>55295&&n<57344){if(!i){if(n>56319){(t=3)>-
1&&a.push(239,191,189);continue}if(o+1===r){(t=3)>-
1&&a.push(239,191,189);continue}i=n;continue}if(n<56320){(t=3)>-1&&a.push(239,191,189),i=n;continue}n=(i-
55296<<10|n-56320)+65536}else i&&(t=3)>-1&&a.push(239,191,189);if(i=null,n<128){if((t-
=1)<0)break;a.push(n)}else if(n<2048){if((t=2)<0)break;a.push(n>>6|192,63&n|128)}else if(n<65536){if((t-
=3)<0)break;a.push(n>>12|224,n>>6&63|128,63&n|128)}else{if(!(n<1114112))throw
new Error("Invalid code point");if((t-
=4)<0)break;a.push(n>>18|240,n>>12&63|128,n>>6&63|128,63&n|128)}}return a}function Y(e){for(var
t=[],n=0;n<e.length;+n)t.push(255&e.charCodeAt(n));return t}function J(e,t){for(var
n,r,i,a=[],o=0;o<e.length&&!((t=2)<0);+o)n=e.charCodeAt(o),r=n>>8,i=n%256,a.push(i),a.push(r);return
a}function W(e){return K.toByteArray($(e))}function Q(e,t,n,r){for(var
i=0;i<r&&!(i+n>=t.length||i>=e.length);+i)t[i+n]=e[i];return i}function G(e){return e!|=e}var K=e("base64-
js"),X=e("ieee754"),Z=e("isarray");n.Buffer=o,n.SlowBuffer=g,n.INSPECT_MAX_BYTES=50,o.TYPED_ARRA
Y_SUPPORT=void
0!|=t.TYPED_ARRAY_SUPPORT?t.TYPED_ARRAY_SUPPORT:r(),n.kMaxLength=i(),o.poolSize=8192,o._aug
ment=function(e){return e.__proto__=o.prototype,e,o.from=function(e,t,n){return
s(null,e,t,n)},o.TYPED_ARRAY_SUPPORT&&(o.prototype.__proto__=Uint8Array.prototype,o.__proto__=Uint8
Array,"undefined"!=typeof

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Symbol&&Symbol.species&&o[Symbol.species]===o&&Object.defineProperty(o,Symbol.species,{value:null,conf
igurable:!0}),o.alloc=function(e,t,n){return
u(null,e,t,n)},o.allocUnsafe=function(e){return c(null,e)},o.allocUnsafeSlow=function(e){return
c(null,e)},o.isBuffer=function(e){return!(null===e||!e._isBuffer)},o.compare=function(e,t){if(!o.isBuffer(e)||!o.isBuff
er(t))throw new TypeError("Arguments must be Buffers");if(e===t)return 0;for(var
n=e.length,r=t.length,i=0,a=Math.min(n,r);i<a;++i)if(e[i]!==t[i]){n=e[i],r=t[i];break}return n<r?-
1:r<n?1:0},o.isEncoding=function(e){switch(String(e).toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"latin1":case"binary":case"base64":case"ucs2":case"ucs-2":case"utf16le":case"utf-
16le":return!0;default:return!1}},o.concat=function(e,t){if(!Z(e))throw new TypeError("'list' argument must be an
Array of Buffers");if(0===e.length)return o.alloc(0);var n;if(void
0===t)for(t=0,n=0;n<e.length;++n)t+=e[n].length;var r=o.allocUnsafe(t),i=0;for(n=0;n<e.length;++n){var
a=e[n];if(!o.isBuffer(a))throw new TypeError("'list' argument must be an Array of
Buffers");a.copy(r,i),i+=a.length}return
r},o.byteLength=y,o.prototype._isBuffer=!0,o.prototype.swap16=function(){var e=this.length;if(e%2!==0)throw
new RangeError("Buffer size must be a multiple of 16-bits");for(var t=0;t<e;t+=2)b(this,t,t+1);return
this},o.prototype.swap32=function(){var e=this.length;if(e%4!==0)throw new RangeError("Buffer size must be a
multiple of 32-bits");for(var t=0;t<e;t+=4)b(this,t,t+3),b(this,t+1,t+2);return
this},o.prototype.swap64=function(){var e=this.length;if(e%8!==0)throw new RangeError("Buffer size must be a
multiple of 64-bits");for(var t=0;t<e;t+=8)b(this,t,t+7),b(this,t+1,t+6),b(this,t+2,t+5),b(this,t+3,t+4);return
this},o.prototype.toString=function(){var e=0|this.length;return
0===e?"":0===arguments.length?T(this,0,e):v.apply(this,arguments)},o.prototype.equals=function(e){if(!o.isBuffer
(e))throw new TypeError("Argument must be a Buffer");return
this===e||0===o.compare(this,e)},o.prototype.inspect=function(){var e="",t=n.INSPECT_MAX_BYTES;return
this.length>0&&(e=this.toString("hex",0,t).match(/.{2}/g).join(" "),this.length>t&&(e+=" ... "),"<Buffer
"+e+">"},o.prototype.compare=function(e,t,n,r,i){if(!o.isBuffer(e))throw new TypeError("Argument must be a
Buffer");if(void 0===t&&(t=0),void 0===n&&(n=e.length),void 0===r&&(r=0),void
0===i&&(i=this.length),t<0||n>e.length||r<0||i>this.length)throw new RangeError("out of range
index");if(r>=i&&t>=n)return 0;if(r>=i)return-1;if(t>=n)return
1;if(t>>>=0,n>>>=0,r>>>=0,i>>>=0,this===e)return 0;for(var a=i-r,s=n-
t,l=Math.min(a,s),u=this.slice(r,i),c=e.slice(t,n),p=0;p<l;++p)if(u[p]!==c[p]){a=u[p],s=c[p];break}return a<s?-
1:s<a?1:0},o.prototype.includes=function(e,t,n){return this.indexOf(e,t,n)!=-
1},o.prototype.indexOf=function(e,t,n){return w(this,e,t,n,!0)},o.prototype.lastIndexOf=function(e,t,n){return
w(this,e,t,n,!1)},o.prototype.write=function(e,t,n,r){if(void 0===t)r="utf8",n=this.length,t=0;else
if(void 0===n&&"string"===typeof t)r=t,n=this.length,t=0;else if(!isFinite(t))throw new Error("Buffer.write(string,
encoding, offset[, length]) is no longer supported");t=0|t,isFinite(n)?(n=0|n,void 0===r&&(r="utf8")):(r=n,n=void
0)}var i=this.length-t;if((void 0===n||n>i)&&(n-i),e.length>0&&(n<0||t<0)||t>this.length)throw new
RangeError("Attempt to write outside buffer bounds");r||(r="utf8");for(var a=!1;;)switch(r){case"hex":return
x(this,e,t,n);case"utf8":case"utf-8":return A(this,e,t,n);case"ascii":return
S(this,e,t,n);case"latin1":case"binary":return j(this,e,t,n);case"base64":return E(this,e,t,n);case"ucs2":case"ucs-
2":case"utf16le":case"utf-16le":return O(this,e,t,n);default:if(a)throw new TypeError("Unknown encoding:
"+r);r=(""+r).toLowerCase(),a=!0}},o.prototype.toJSON=function(){return{type:"Buffer",data:Array.prototype.slice
.call(this._arr||this,0)}};var ee=4096;o.prototype.slice=function(e,t){var n=this.length;e~~=e,t=void
0===t?n:~~t,e<0?(e+=n,e<0&&(e=0)):e>n&&(e=n),t<0?(t+=n,t<0&&(t=0)):t>n&&(t=n),t<e&&(t=e);var
r;if(o.TYPED_ARRAY_SUPPORT)r=this.subarray(e,t),r.__proto__=o.prototype;else{var i=t-e;r=new o(i,(void
0));for(var a=0;a<i;++a)r[a]=this[a+e]}return
r},o.prototype.readUIntLE=function(e,t,n){e=0|e,t=0|t,n||R(e,t,this.length);for(var
r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return
r},o.prototype.readUIntBE=function(e,t,n){e=0|e,t=0|t,n||R(e,t,this.length);for(var r=this[e+--

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t],i=1;t>0&&(i*=256);r+=this[e--]*i;return r},o.prototype.readUInt8=function(e,t){return
t|R(e,1,this.length),this[e]},o.prototype.readUInt16LE=function(e,t){return
t|R(e,2,this.length),this[e]|this[e+1]<<8},o.prototype.readUInt16BE=function(e,t){return
t|R(e,2,this.length),this[e]<<8|this[e+1]},o.prototype.readUInt32LE=function(e,t){return
t|R(e,4,this.length),(this[e]|this[e+1]<<8|this[e+2]<<16)+16777216*this[e+3]},o.prototype.readUInt32BE=function
(e,t){return
t|R(e,4,this.length),16777216*this[e]+(this[e+1]<<16|this[e+2]<<8|this[e+3]),o.prototype.readIntLE=function(e,t,n
){e=0|e,t=0|t,n|R(e,t,this.length);for(var
r=this[e],i=1,a=0;++a<t&&(i*=256);r+=this[e+a]*i;return i*=128,r>=i&&(r-
=Math.pow(2,8*t)),r},o.prototype.readIntBE=function(e,t,n){e=0|e,t=0|t,n|R(e,t,this.length);for(var
r=t,i=1,a=this[e--];r>0&&(i*=256);a+=this[e--]*i;return i*=128,a>=i&&(a-
=Math.pow(2,8*t)),a},o.prototype.readInt8=function(e,t){return t|R(e,1,this.length),128&this[e]?(255-this[e]+1)*-
1:this[e]},o.prototype.readInt16LE=function(e,t){t|R(e,2,this.length);var n=this[e]|this[e+1]<<8;return
32768&n?4294901760|n:n},o.prototype.readInt16BE=function(e,t){t|R(e,2,this.length);var
n=this[e+1]|this[e]<<8;return 32768&n?4294901760|n:n},o.prototype.readInt32LE=function(e,t){return
t|R(e,4,this.length),this[e]|this[e+1]<<8|this[e+2]<<16|this[e+3]<<24},o.prototype.readInt32BE=function(e,t){retur
n
t|R(e,4,this.length),this[e]<<24|this[e+1]<<16|this[e+2]<<8|this[e+3]},o.prototype.readFloatLE=function(e,t){return
t|R(e,4,this.length),X.read(this,e,!0,23,4)},o.prototype.readFloatBE=function(e,t){return
t|R(e,4,this.length),X.read(this,e,!1,23,4)},o.prototype.readDoubleLE=function(e,t){return
t|R(e,8,this.length),X.read(this,e,!0,52,8)},o.prototype.readDoubleBE=function(e,t){
return
t|R(e,8,this.length),X.read(this,e,!1,52,8)},o.prototype.writeUIntLE=function(e,t,n,r){if(e+=e,t=0|t,n=0|n,!r){var
i=Math.pow(2,8*n)-1;U(this,e,t,n,i,0)}var a=1,o=0;for(this[t]=255&e;++o<n&&(a*=256);)this[t+o]=e/a&255;return
t+n},o.prototype.writeUIntBE=function(e,t,n,r){if(e+=e,t=0|t,n=0|n,!r){var i=Math.pow(2,8*n)-
1;U(this,e,t,n,i,0)}var a=n-1,o=1;for(this[t+a]=255&e;--a>=0&&(o*=256);)this[t+a]=e/o&255;return
t+n},o.prototype.writeUInt8=function(e,t,n){return
e+=e,t=0|t,n|U(this,e,t,1,255,0),o.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),this[t]=255&e,t+1},o.prototype.
writeUInt16LE=function(e,t,n){return
e+=e,t=0|t,n|U(this,e,t,2,65535,0),o.TYPED_ARRAY_SUPPORT?(this[t]=255&e,this[t+1]=e>>>8):P(this,e,t,!0),t+
2},o.prototype.writeUInt16BE=function(e,t,n){return
e+=e,t=0|t,n|U(this,e,t,2,65535,0),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=255&e):P(this,e,t,!1),t+
2},o.prototype.writeUInt32LE=function(e,t,n){return
e+=e,t=0|t,n|U(this,e,t,4,4294967295,0),o.TYPED_ARRAY_SUPPORT?(this[t+3]=e>>>24,this[t+2]=e>>>16,this[t
+1]=e>>>8,this[t]=255&e):q(this,e,t,!0),t+4},o.prototype.writeUInt32BE=function(e,t,n){return
e+=e,t=0|t,n|U(this,e,t,4,4294967295,0),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this[t+2
]=e>>>8,this[t+3]=255&e):q(this,e,t,!1),t+4},o.prototype.writeIntLE=function(e,t,n,r){if(e+=e,t=0|t,!r){var
i=Math.pow(2,8*n-1);U(this,e,t,n,i,-i)}var
a=0,o=1,s=0;for(this[t]=255&e;++a<n&&(o*=256);)e<0&&0===s&&0!==(this[t+a-1]&&(s=1),this[t+a]=(e/o>>>0)-
s&255;return t+n},o.prototype.writeIntBE=function(e,t,n,r){if(e+=e,t=0|t,!r){var i=Math.pow(2,8*n-
1);U(this,e,t,n,i,-i)}var a=n-1,o=1,s=0;for(this[t+a]=255&e;--
a>=0&&(o*=256);)e<0&&0===s&&0!==(this[t+a+1]&&(s=1),this[t+a]=(e/o>>>0)-s&255;return
t+n},o.prototype.writeInt8=function(e,t,n){return
e+=e,t=0|t,n|U(this,e,t,1,127,-
128),o.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),e<0&&(e=255+e+1),this[t]=255&e,t+1},o.prototype.writeI
nt16LE=function(e,t,n){return e+=e,t=0|t,n|U(this,e,t,2,32767,-
32768),o.TYPED_ARRAY_SUPPORT?(this[t]=255&e,this[t+1]=e>>>8):P(this,e,t,!0),t+2},o.prototype.writeInt16
BE=function(e,t,n){return e+=e,t=0|t,n|U(this,e,t,2,32767,-

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32768),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=255&e):P(this,e,t,!1),t+2},o.prototype.writeInt32
LE=function(e,t,n){return e+=e,t=0|t,n||U(this,e,t,4,2147483647,-
2147483648),o.TYPED_ARRAY_SUPPORT?(this[t]=255&e,this[t+1]=e>>>8,this[t+2]=e>>>16,this[t+3]=e>>>24
):q(this,e,t,!0),t+4},o.prototype.writeInt32BE=function(e,t,n){return e+=e,t=0|t,n||U(this,e,t,4,2147483647,-
2147483648),e<0&&(e=4294967295+e+1),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this
[t+2]=e>>>8,this[t+3]=255&e):q(this,e,t,!1),t+4},o.prototype.writeFloatLE=function(e,t,n){return
N(this,e,t,!0,n)},o.prototype.writeFloatBE=function(e,t,n){return
N(this,e,t,!1,n)},o.prototype.writeDoubleLE=function(e,t,n){return
z(this,e,t,!0,n)},o.prototype.writeDoubleBE=function(e,t,n){return
z(this,e,t,!1,n)},o.prototype.copy=function(e,t,n,r){if(n||(n=0),r||0===r||(r=this.length),t>=e.length&&(t=e.length),t|
(t=0),r>0&&r<n&&(r=n),r===n)return 0;if(0===e.length||0===this.length)return 0;if(t<0)throw new
RangeError("targetStart out of bounds");if(n<0||n>=this.length)throw new RangeError("sourceStart out of
bounds");if(r<0)throw new RangeError("sourceEnd out of bounds");r>this.length&&(r=this.length),e.length-t<r-
n&&(r=e.length-t+n);var i,a=r-n;if(this===e&&n<t&&t<r)for(i=a-1;i>=0;--i)e[i+t]=this[i+n];else
if(a<1e3||!o.TYPED_ARRAY_SUPPORT)for(i=0;i<a;++i)e[i+t]=this[i+n];else
Uint8Array.prototype.set.call(e,this.subarray(n,n+a),t);return
a},o.prototype.fill=function(e,t,n,r){if("string"===typeof e){if("string"===typeof
t?(r=t,t=0,n=this.length):"string"===typeof n&&(r=n,n=this.length),l===e.length){var
i=e.charCodeAt(0);i<256&&(e=i)}if(void
0!==r&&"string"!==typeof r)throw new TypeError("encoding must be a string");if("string"===typeof
r&&!o.isEncoding(r))throw new TypeError("Unknown encoding: "+r)}else"number"===typeof
e&&(e=255&e);if(t<0||this.length<t||this.length<n)throw new RangeError("Out of range index");if(n<=t)return
this;t>>>=0,n=void 0===n?this.length:n>>>0,e||(e=0);var a;if("number"===typeof
e)for(a=t;a<n;++a)this[a]=e;else{var s=o.isBuffer(e)?e:H(new o(e,r).toString()),l=s.length;for(a=0;a<n-
t;++a)this[a+t]=s[a%l]}return this};var te=/[^\u0000-\u0009\u000A-\u000D\u000E-\u001F]/g).call(this,"undefined"!==typeof
global?global:"undefined"!==typeof self?self:"undefined"!==typeof window?window:)}},{base64-
js":2,ieee754:37,isarray:40}],6:[function(e,t,n){(function(e){function t(e){return
Array.isArray?Array.isArray(e):"[object Array]"===g(e)}function r(e){return"boolean"===typeof e}function
i(e){return null===e}function a(e){return null===e}function o(e){return"number"===typeof e}function
s(e){return"string"===typeof e}function l(e){return"symbol"===typeof
e}function u(e){return void 0===e}function c(e){return"[object RegExp]"===g(e)}function
p(e){return"object"===typeof e&&null!==e}function h(e){return"[object Date]"===g(e)}function f(e){return"[object
Error]"===g(e)||e instanceof Error}function d(e){return"function"===typeof e}function m(e){return
null===e||"boolean"===typeof e||"number"===typeof e||"string"===typeof e||"symbol"===typeof e||"undefined"===typeof
e}function g(e){return
Object.prototype.toString.call(e)}n.isArray=t,n.isBoolean=r,n.isNull=i,n.isNullOrUndefined=a,n.isNumber=o,n.isSt
ring=s,n.isSymbol=l,n.isUndefined=u,n.isRegExp=c,n.isObject=p,n.isDate=h,n.isError=f,n.isFunction=d,n.isPrimiti
ve=m,n.isBuffer=e.isBuffer}).call(this,{isBuffer:e("../is-buffer/index.js")}),{("../is-
buffer/index.js":39)],7:[function(e,t,n){function r(e,t){if(e){var n,r="";for(var i in e)n=e[i],r&&(r+="
"),r+="!n&&p[i]?i:i+='"+(t.decodeEntities?c.encodeXML(n):n)+"";return r}}function
i(e,t){"svg"===e.name&&(t={decodeEntities:t.decodeEntities,xmlMode:!0});var
n="<"+e.name,i=r(e.attrs,t);return i&&(n+="
"+i),!t.xmlMode||e.children&&0!==e.children.length?(n+=">",e.children&&(n+=d(e.children,t)),f[e.name]&&!t.xml
Mode||n+="</"+e.name+">"):n+=">"}function a(e){return"<"+e.data+">"}function o(e,t){var
n=e.data||"";return!t.decodeEntities||e.parent&&e.parent.name in h||(n=c.encodeXML(n)),n}function
s(e){return"<![CDATA["+e.children[0].data+"]>"}function l(e){return"<!--"+e.data+"-->"}var
u=e("domelementtype"),c=e("entities"),p={__proto__:null,allowfullscreen:!0,async:!0,autofocus:!0,autoplay:!0,che
cked:!0,controls:!0,"default":!0,defer:!0,disabled:!0,hidden:!0,ismap:!0,loop:!0,multiple:!0,muted:!0,open:!0,reado
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:!,required:!,reversed:!,scoped:!,seamless:!,selected:!,typemustmatch:!),h={__proto__:null,style:!,script:!,
,xmp:!,iframe:!,noembed:!,noframes:!,plaintext:!,noscript:!),f={__proto__:null,area:!,base:!,basefont:!,br
:!,col:!,command:!,embed:!,frame:!,hr:!,img:!,input:!,isindex:!,keygen:!,link:!,meta:!,param:!,source
:!,track:!,wbr:!),d=t.exports=function(e,t){Array.isArray(e)||e.cheerio||(e=[e]),t=t||{};for(var
n="",r=0;r<e.length;r++){var
c=e[r];n+="root"===c.type?d(c.children,t):u.isTag(c)?i(c,t):c.type===u.Directive?a(c):c.type===u.Comment?l(c):c.t
ype===u.CDATA?s(c):o(c,t)}return
n}},{domelementtype:8,entities:20}],8:[function(e,t,n){t.exports={Text:"text",Directive:"directive",Comment:"com
ment",Script:"script",Style:"style",Tag:"tag",CDATA:"cdata",isTag:function(e){return"tag"===e.type||"script"===e.
type||"style"===e.type}}},{}],9:[function(e,t,n){t.exports={Text:"text",Directive:"directive",Comment:"comment",
Script:"script",Style:"style",Tag:"tag",CDATA:"cdata",Doctype:"doctype",isTag:function(e){return"tag"===e.type||
"script"===e.type||"style"===e.type}}},{}],10:[function(e,t,n){function r(e,t,n){"object"===typeof
e?(n=t,t=e,e=null):"function"===typeof
t&&(n=t,t=l),this._callback=e,this._options=t||l,this._elementCB=n,this.dom=[],this._done=!1,this._tagStack=[],this.
_parser=this._parser||null}var
i=e("domelementtype"),a=/\s+/g,o=e("./lib/node"),s=e("./lib/element"),l={normalizeWhitespace:!1,withStartIndices:
!1};r.prototype.onparserinit=function(e){this._parser=e},r.prototype.onreset=function(){r.call(this,this._callback,this
._options,this._elementCB)},r.prototype.onend=function(){this._done||(this._done=!0,this._parser=null,this._handle
Callback(null))},r.prototype._handleCallback=r.prototype.onerror=function(e){if("function"===typeof
this._callback)this._callback(e,this.dom);else if(e)throw e},r.prototype.onclosetag=function(){var
e=this._tagStack.pop();this._elementCB&&this._elementCB(e),r.prototype._addDomElement=function(e){var
t=this._tagStack[this._tagStack.length-1],n=t?t.children:this.dom,r=n[n.length-
1];e.next=null,this._options.withStartIndices&&(e.startIndex=this._parser.startIndex),this._options.withDomLvl1&
&(e.__proto__="tag"===e.type?s:o),r?(e.prev=r,r.next=e):e.prev=null,n.push(e),e.parent=t||null},r.prototype.onopen
tag=function(e,t){var
n={type:"script"===e?i.Script:"style"===e?i.Style:i.Tag,name:e,attribs:t,children:[]};this._addDomElement(n),this.
_tagStack.push(n),r.prototype.ontext=function(e){var
t,n=this._options.normalizeWhitespace||this._options.ignoreWhitespace;!this._tagStack.length&&this.dom.length&
&(t=this.dom[this.dom.length-1]),type===i.Text?n?t.data=(t.data+e).replace(a,"
"):t.data+=e:this._tagStack.length&&(t=this._tagStack[this._tagStack.length-1])&&(t=t.children[t.children.length-
1])&&t.type===i.Text?n?t.data=(t.data+e).replace(a," ") :t.data+=e:(n&&(e=e.replace(a,"
")),this._addDomElement({data:e,type:i.Text}))},r.prototype.oncomment=function(e){var
t=this._tagStack[this._tagStack.length-1];if(t&&t.type===i.Comment)return void(t.data+=e);var
n={data:e,type:i.Comment};this._addDomElement(n),this._tagStack.push(n)},r.prototype.oncdatastart=function(){v
ar
e={children:[{data:"",type:i.Text}],type:i.CDATA};this._addDomElement(e),this._tagStack.push(e)},r.prototype.on
commentend=r.prototype.oncdataend=function(){this._tagStack.pop()},r.prototype.onprocessinginstruction=functio
n(e,t){this._addDomElement({name:e,data:t,type:i.Directive})},t.exports=r},{"/lib/element":11,"/lib/node":12,dom
elementtype:9}],11:[function(e,t,n){var
r=e("./node"),i=t.exports=Object.create(r),a={tagName:"name"};Object.keys(a).forEach(function(e){var
t=a[e];Object.defineProperty(i,e,{get:function(){return this[t]||null},set:function(e){return
this[t]=e,e}})}),{"/node":12}],12:[function(e,t,n){var r=t.exports={get firstChild(){var e=this.children;return
e&&e[0]||null},get lastChild(){var e=this.children;return e&&e[e.length-1]||null},get nodeType(){return
a[this.type]||a.element},i={tagName:"name",childNodes:"children",parentNode:"parent",previousSibling:"prev",ne
xtSibling:"next",nodeValue:"data"},a={element:1,text:3,cdata:4,comment:8};Object.keys(i).forEach(function(e){va
r t=i[e];Object.defineProperty(r,e,{get:function(){return this[t]||null},set:function(e){return
this[t]=e,e}})}),{}],13:[function(e,t,n){var

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r=t.exports:[e("./lib/stringify"),e("./lib/traversal"),e("./lib/manipulation"),e("./lib/querying"),e("./lib/legacy"),e("./lib/helpers")].forEach(function(e){Object.keys(e).forEach(function(t){r[t]=e[t].bind(r)}))},{"./lib/helpers":14,"./lib/legacy":15,"./lib/manipulation":16,"./lib/querying":17,"./lib/stringify":18,"./lib/traversal":19}],14:[function(e,t,n){n.removeSubsets=function(e){for(var t,n,r,i=e.length;--i>-1;){for(t=n=e[i],e[i]=null,r=!0;n;){if(e.indexOf(n)>-1){r=!1,e.splice(i,1);break}n=n.parent}r&&(e[i]=t)}return e};var r={DISCONNECTED:1,PRECEDING:2,FOLLOWING:4,CONTAINS:8,CONTAINED_BY:16},i=n.compareDocumentPosition=function(e,t){var n,i,a,o,s,l,u=[],c=[];if(e===t)return 0;for(n=e;n;u.unshift(n),n=n.parent;for(n=t;n;c.unshift(n),n=n.parent;for(l=0;u[l]===c[l];)l++);return 0===l?r.DISCONNECTED:(i=u[l-1],a=i.children,o=u[l],s=c[l],a.indexOf(o)>a.indexOf(s)?i===t?r.FOLLOWING|r.CONTAINED_BY:r.FOLLOWING:i===e?r.PRECEDING|r.CONTAINS:r.PRECEDING)};n.uniqueSort=function(e){var t,n,a=e.length;for(e=e.slice();--a>-1;)t=e[a],n=e.indexOf(t),n>-1&&n<a&&e.splice(a,1);return e.sort(function(e,t){var n=i(e,t);return n&r.PRECEDING?1:n&r.FOLLOWING?1:0}),e}},15:[function(e,t,n){function r(e,t){return"function"===typeof t?function(n){return n.attrs&&t(n.attrs[e]):function(n){return n.attrs&&n.attrs[e]===t}}function i(e,t){return function(n){return e(n)||t(n)}}var a=e("domelementtype"),o=n.isTag=a.isTag;n.testElement=function(e,t){for(var n in e)if(e.hasOwnProperty(n)){if("tag_name"===n){if(!o(t)||!e.tag_name(t.name))return!1}else if("tag_type"===n){if(!e.tag_type(t.type))return!1}else if("tag_contains"===n){if(o(t)||!e.tag_contains(t.data))return!1}else if(!t.attrs||!e[n](t.attrs[n]))return!1}else{return!0};var s={tag_name:function(e){return"function"===typeof e?function(t){return o(t)&&e(t.name)}:"*"===e?o:function(t){return o(t)&&t.name===e}},tag_type:function(e){return"function"===typeof e?function(t){return e(t.type)}:function(t){return t.type===e}},tag_contains:function(e){return"function"===typeof e?function(t){return!o(t)&&e(t.data)}:function(t){return!o(t)&&t.data===e}};n.getElements=function(e,t,n,a){var o=Object.keys(e).map(function(t){var n=e[t];return t in s?s[t](n):r(t,n)});return 0===o.length?[]:this.filter(o.reduce(i),t,n,a)},n.getElementById=function(e,t,n){return Array.isArray(t)||t===t,this.findOne(r("id"),e,t,n!==!1)},n.getElementsByTagName=function(e,t,n,r){return this.filter(s.tag_name(e),t,n,r)},n.getElementsByTagType=function(e,t,n,r){return this.filter(s.tag_type(e),t,n,r)},{domelementtype:9}},16:[function(e,t,n){n.removeElement=function(e){if(e.prev&&(e.prev.next=e.next),e.next&&(e.next.prev=e.prev),e.parent){var t=e.parent.children;t.splice(t.lastIndexOf(e),1)},n.replaceElement=function(e,t){var n=t.prev=e.prev;n&&(n.next=t);var r=t.next=e.next;r&&(r.prev=t);var i=t.parent=e.parent;if(i){var a=i.children;a[a.lastIndexOf(e)]=t},n.appendChild=function(e,t){if(t.parent=e,!e.children.push(t)){var n=e.children[e.children.length-2];n.next=t,t.prev=n,t.next=null}},n.append=function(e,t){var n=e.parent,r=e.next;if(t.next=r,t.prev=e,e.next=t,t.parent=n,r){if(r.prev=t,n){var i=n.children;i.splice(i.lastIndexOf(r),0,t)}else n&&n.children.push(t)},n.prepend=function(e,t){var n=e.parent;if(n){var r=n.children;r.splice(r.lastIndexOf(e),0,t)}e.prev&&(e.prev.next=t),t.parent=n,t.prev=e.prev,t.next=e,e.prev=t}},17:[function(e,t,n){function r(e,t,n,r){return Array.isArray(t)||t===t,"number"===typeof r&&isFinite(r)||r===1/0,i(e,t,n!==!1,r)}function i(e,t,n,r){for(var a,o=[],s=0,l=t.length;s<l&&!(e[t[s]]&&(o.push(t[s]),--r<=0))&&(a=t[s].children,!n&&a&&a.length>0&&(a=i(e,a,n,r),o=o.concat(a),r--a.length,r<=0));s++);return o}function a(e,t){for(var n=0,r=t.length;n<r;n++)if(e(t[n]))return t[n];return null}function o(e,t){for(var n=null,r=0,i=t.length;r<i&&!n;r++)u(t[r])&&(e(t[r])?n=t[r]:t[r].children.length>0&&(n=o(e,t[r].children)));return n}function s(e,t){for(var n=0,r=t.length;n<r;n++)if(u(t[n])&&(e(t[n])||t[n].children.length>0&&s(e,t[n].children)))return!0;return!1}function

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l(e,t){for(var
n=[],r=0,i=t.length;r<i;r++)u(t[r])&&(e(t[r])&&n.push(t[r]),t[r].children.length>0&&(n=n.concat(l(e,t[r].children)))
);return n}var
u=e("domelementtype").isTag;t.exports={filter:r,find:i,findOneChild:a,findOne:o,existsOne:s,findAll:l},{domelem
enttype:9}],18:[function(e,t,n){function r(e,t){return e.children?e.children.map(function(e){return
o(e,t)}).join(""):""}function i(e){return
Array.isArray(e)?e.map(i).join(""):s(e)}e.type===a.CDATA?i(e.children):e.type===a.Text?e.data:""}var
a=e("domelementtype"),o=e("dom-
serializer"),s=a.isTag;t.exports={getInnerHTML:r,getOuterHTML:o,getText:i},{dom-
serializer":7,domelementtype:9}],19:[function(e,t,n){var r=n.getChildren=function(e){return
e.children},i=n.getParent=function(e){return e.parent};n.getSiblings=function(e){var t=i(e);return
t?t:[e],n.getAttributeValue=function(e,t){return
e.attrs&&e.attrs[t],n.hasAttrib=function(e,t){return!e.attrs&&hasOwnProperty.call(e.attrs,t),n.getName=f
unction(e){return
e.name}},{}},20:[function(e,t,n){var
r=e("./lib/encode.js"),i=e("./lib/decode.js");n.decode=function(e,t){return(!t||t<=0?i.XML:i.HTML)(e),n.decodeStri
ct=function(e,t){return(!t||t<=0?i.XML:i.HTMLStrict)(e),n.encode=function(e,t){return(!t||t<=0?r.XML:r.HTML)(
e),n.encodeXML=r.XML,n.encodeHTML4=n.encodeHTML5=n.encodeHTML=r.HTML,n.decodeXML=n.decode
XMLStrict=i.XML,n.decodeHTML4=n.decodeHTML5=n.decodeHTML=i.HTML,n.decodeHTML4Strict=n.decode
HTML5Strict=n.decodeHTMLStrict=i.HTMLStrict,n.escape=r.escape},{"/lib/decode.js":21,"/lib/encode.js":23}],2
1:[function(e,t,n){function r(e){var t=Object.keys(e).join(""),n=a(e);t+="#[xX][\\da-fA-F]+|#\\d+";var r=new
RegExp("&(?:"+t+");","g");return function(e){return String(e).replace(r,n)}}function i(e,t){return e<t?1:-1}function
a(e){return
function(t){return"#====t.charAt(1)?u("X"====t.charAt(2))|"x"====t.charAt(2)?parseInt(t.substr(3),16):parseInt(t.sub
str(2),10)}:e[t.slice(1,-1)]}var
o=e("../maps/entities.json"),s=e("../maps/legacy.json"),l=e("../maps/xml.json"),u=e("../decode_codepoint.js"),c=r(l),p
=r(o),h=function(){function e(e){return"!==e.substr(-1)&&(e+="");c(e)}for(var
t=Object.keys(s).sort(i),n=Object.keys(o).sort(i),r=0,l=0;r<n.length;r++)t[l]===n[r]?(n[r]+="?",l++):n[r]+="";var
u=new RegExp("&(?:"+n.join("|")+#[xX][\\da-fA-F]+|#\\d+)?","g"),c=a(o);return function(t){return
String(t).replace(u,e)}();t.exports={XML:c,HTML:h,HTMLStrict:p}},{"/maps/entities.json":25,"/maps/legacy.js
on":26,"/maps/xml.json":27,"/decode_codepoint.js":22}],22:[function(e,t,n){function
r(e){if(e>=55296&&e<=57343|e>111411)return"";e in i&&(e=i[e]);var t="";return e>65535&&(e-
=65536,t+=String.fromCharCode(e>>>10&1023|55296),e=56320|1023&e),t+=String.fromCharCode(e)}var
i=e("../maps/decode.json");t.exports=r},{"/maps/decode.json":24}],23:[function(e,t,n){function r(e){return
Object.keys(e).sort().reduce(function(t,n){return
t[e[n]]="&"+n+";",t},{})}function i(e){var t=[],n=[];return
Object.keys(e).forEach(function(e){l===e.length?t.push("\\"+e):n.push(e)},n.unshift("[ "+t.join(" ")+""]),new
RegExp(n.join("|"),"g")}function a(e){return"&#x"+e.charCodeAt(0).toString(16).toUpperCase()+";"}function
o(e){var t=e.charCodeAt(0),n=e.charCodeAt(1),r=1024*(t-55296)+n-
56320+65536;return"&#x"+r.toString(16).toUpperCase()+";"}function s(e,t){function n(t){return e[t]}return
function(e){return e.replace(t,n).replace(d,o).replace(f,a)}function l(e){return
e.replace(m,a).replace(d,o).replace(f,a)}var u=r(e("../maps/xml.json")),c=i(u),n.XML=s(u,c);var
p=r(e("../maps/entities.json")),h=i(p);n.HTML=s(p,h);var f=/[^\0-\x7F]/g,d=/[\uD800-\uDBFF][\uDC00-
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}],27:[function(e,t,n){t.exports={ amp:"&" ,apos:"'" ,gt:">" ,lt:"<" ,quot:"" }},28:[function(e,t,n){function
r(){this._events=this._events||{} ,this._maxListeners=this._maxListeners||void 0}function
i(e){return"function"===typeof e}function a(e){return"number"===typeof e}function o(e){return"object"===typeof
e&&!null===e}function s(e){return void 0===e}t.exports=r,r.EventEmitter=r,r.prototype._events=void
0,r.prototype._maxListeners=void
0,r.defaultMaxListeners=10,r.prototype.setMaxListeners=function(e){if(!a(e)||e<0||isNaN(e))throw TypeError("n
must be a positive number");return this._maxListeners=e,this} ,r.prototype.emit=function(e){ var
t,n,r,a,l,u;if(this._events||(this._events={ }),"error"===e&&!this._events.error||o(this._events.error)&&!this._events.
error.length)){if(t=arguments[1],t instanceof Error)throw t;var c=new Error("Uncaught, unspecified "error" event.
("+t+")");throw c.context=t,c}if(n=this._events[e],s(n))return!1;if(i(n))switch(arguments.length){ case
1:n.call(this);break;case 2:n.call(this,arguments[1]);break;case
3:n.call(this,arguments[1],arguments[2]);break;default:a=Array.prototype.slice.call(arguments,1),n.apply(this,a)} els
e
if(o(n))for(a=Array.prototype.slice.call(arguments,1),u=n.slice(),r=u.length,l=0;l<r;l++)u[l].apply(this,a);return!0} ,r.
prototype.addListener=function(e,t){ var n;if(!i(t))throw TypeError("listener must be a function");return
this._events||(this._events={ }),this._events.newListener&&this.emit("newListener" ,e,i(t.listener)?t.listener:t),this._e
vents[e]?o(this._events[e])?this._events[e].push(t):this._events[e]=[this._events[e],t]:this._events[e]=t,o(this._events
[e])&&!this._events[e].warned&&(n=s(this._maxListeners)?r.defaultMaxListeners:this._maxListeners,n&&n>0&&
this._events[e].length>n&&(this._events[e].warned=!0,console.error("(node) warning: possible EventEmitter
memory leak detected. %d listeners added. Use emitter.setMaxListeners() to increase
limit." ,this._events[e].length,"function"===typeof
console.trace&&console.trace())) ,this} ,r.prototype.on=r.prototype.addListener,r.prototype.once=function(e,t){ functi
on n(){this.removeListener(e,n),r!(r=!0,t.apply(this,arguments))}if(!i(t))throw TypeError("listener must be a
function");var r=!1;return n.listener=t,this.on(e,n),this} ,r.prototype.removeListener=function(e,t){ var
n,r,a,s;if(!i(t))throw TypeError("listener must be a function");if(!this._events||!this._events[e])return
this;if(n=this._events[e],a=n.length,r=-1,n===t||i(n.listener)&&n.listener===t)delete
this._events[e],this._events.removeListener&&this.emit("removeListener" ,e,t);else if(o(n)){ for(s=a;s--
>0);if(n[s]===t||n[s].listener&&n[s].listener===t){ r=s;break}if(r<0)return this;1===n.length?(n.length=0,delete
this._events[e]):n.splice(r,1),this._events.removeListener&&this.emit("removeListener" ,e,t)}return
this} ,r.prototype.removeAllListeners=function(e){ var t,n;if(!this._events)return
this;if(!this._events.removeListener)return 0===arguments.length?this._events={ } :this._events[e]&&delete
this._events[e],this;if(0===arguments.length){ for(t in
this._events)"removeListener"!==t&&this.removeAllListeners(t);return
this.removeAllListeners("removeListener"),this._events={ } ,this}if(n=this._events[e],i(n))this.removeListener(e,n);e
lse if(n)for(;n.length;)this.removeListener(e,n[n.length-1]);return delete
this._events[e],this} ,r.prototype.listeners=function(e){ var t;return

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t=this._events&&this._events[e]?i(this._events[e])[this._events[e]]:this._events[e].slice():[],r.prototype.listenerCo
unt=function(e){if(this._events){var t=this._events[e];if(i(t))return 1;if(t)return t.length}return
0},r.listenerCount=function(e,t){return e.listenerCount(t)},{},29:[function(e,t,n){function
r(e){this._cbs=e||{ },this.events=[]}t.exports=r;var
i=e("./").EVENTS;Object.keys(i).forEach(function(e){if(0===i[e])e="on"+e,r.prototype[e]=function(){this.events.p
ush([e]),this._cbs[e]&&this._cbs[e]()};else
if(1===i[e])e="on"+e,r.prototype[e]=function(t){this.events.push([e,t]),this._cbs[e]&&this._cbs[e](t)};else{if(2!==i
[e])throw
Error("wrong number of
arguments");e="on"+e,r.prototype[e]=function(t,n){this.events.push([e,t,n]),this._cbs[e]&&this._cbs[e](t,n)}}},r.pr
ototype.onreset=function(){this.events=[],this._cbs.onreset&&this._cbs.onreset()},r.prototype.restart=function(){thi
s._cbs.onreset&&this._cbs.onreset();for(var e=0,t=this.events.length;e<t;e++)if(this._cbs[this.events[e][0]]){var
n=this.events[e].length;1===n?this._cbs[this.events[e][0]]():2===n?this._cbs[this.events[e][0]](this.events[e][1]):thi
s._cbs[this.events[e][0]](this.events[e][1],this.events[e][2])}},{"./":36}],30:[function(e,t,n){function
r(e,t){this.init(e,t)}function i(e,t){return c.getElementsByTagName(e,t,!0)}function a(e,t){return
c.getElementsByTagName(e,t,!0)[0]}function o(e,t,n){return
c.getText(c.getElementsByTagName(e,t,n,1)).trim()}function s(e,t,n,r,i){var a=o(n,r,i);a&&(e[t]=a)}var
l=e("./index.js"),u=l.DomHandler,c=l.DomUtils,e("inherits")(r,u),r.prototype.init=u;var
p=function(e){return"rss"===e||"feed"===e||"rdf:RDF"===e};r.prototype.onend=function(){var
e,t,n={ },r=a(p,this.dom);r&&("feed"===r.name?(t=r.children,n.type="atom",s(n,"id","id",t),s(n,"title","title",t),(e=a(
"link",t))&&(e=e.attrs)&&(e=e.href)&&(n.link=e),s(n,"description","subtitle",t),(e=o("updated",t))&&(n.updated
=new Date(e)),s(n,"author","email",t,!0),n.items=i("entry",t).map(function(e){var t,n={ };return
e=e.children,s(n,"id","id",e),s(n,"title","title",e),(t=a("link",e))&&(t=t.attrs)&&(t=t.href)&&(n.link=t),(t=o("summ
ary",e)||o("content",e))&&(n.description=t),(t=o("updated",e))&&(n.pubDate=new
Date(t),n)):t=a("channel",r.children).children,n.type=r.name.substr(0,3),n.id="",s(n,"title","title",t),s(n,"link","lin
k",t),s(n,"description","description",t),(e=o("lastBuildDate",t))&&(n.updated=new
Date(e)),s(n,"author","managingEditor",t,!0),n.items=i("item",r.children).map(function(e){var t,n={ };return
e=e.children,s(n,"id","guid",e),s(n,"title","title",e),s(n,"link","link",e),s(n,"description","description",e),(t=o("pubDat
e",e))&&(n.pubDate=new
Date(t),n))))),this.dom=n,u.prototype._handleCallback.call(this,r?null:Error("couldn't find root of
feed")),t.exports=r},{"/index.js":36,inherits:38}],31:[function(e,t,n){function
r(e,t){this._options=t||{ },this._cbs=e||{ },this._tagname="",this._attribname="",this._attribvalue="",this._attrs=null,
this._stack=[],this.startIndex=0,this.endIndex=null,this._lowerCaseTagName="lowerCaseTags"in
this._options?!!this._options.lowerCaseTags:!this._options.xmlMode,this._lowerCaseAttributeNames="lowerCaseA
ttributeNames"in
this._options?!!this._options.lowerCaseAttributeNames:!this._options.xmlMode,this._options.Tokenizer&&(i=this._
options.Tokenizer),this._tokenizer=new i(this._options,this),this._cbs.onparserinit&&this._cbs.onparserinit(this)}var
i=e("./Tokenizer.js"),a={input:!0,option:!0,optgroup:!0,select:!0,button:!0,datalist:!0,textarea:!0},o={tr:{tr:!0,th:!0,t
d:!0},th:{th:!0},td:{thead:!0,th:!0,td:!0},body:{head:!0,link:!0,script:!0},li:{li:!0},p:{p:!0},h1:{p:!0},h2:{p:!0},h3:{
p:!0},h4:{p:!0},h5:{p:!0},h6:{p:!0},select:a,input:a,output:a,button:a,datalist:a,textarea:a,option:{option:!0},optgrou
p:{optgroup:!0}},s={__proto__:null,area:!0,base:!0,basefont:!0,br:!0,col:!0,command:!0,embed:!0,frame:!0,hr:!0,img
:~0,input:!0,isindex:!0,keygen:!0,link:!0,meta:!0,param:!0,source:!0,track:!0,wbr:!0,path:!0,circle:!0,ellipse:!0,line
:!0,rect:!0,use:!0,stop:!0,polyline:!0,polygon:!0},l=/\s|\/|/;e("inherits")(r,e("events").EventEmitter),r.prototype._updat
ePosition=function(e){null===this.endIndex?this._tokenizer._sectionStart<=e?this.startIndex=0:this.startIndex=this.
_tokenizer._sectionStart-
e:this.startIndex=this.endIndex+1,this.endIndex=this._tokenizer.getAbsoluteIndex()},r.prototype.ontext=function(e)
{this._updatePosition(1),this.endIndex--
,this._cbs.ontext&&this._cbs.ontext(e)},r.prototype.onopentagname=function(e){if(this._lowerCaseTagName&&(e

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r(e){a.call(this,new i(this),e)}function i(e){this.scope=e}t.exports=r;var
a=e("./WritableStream.js");e("inherits")(r,a),r.prototype.readable=!0;var
o=e("./").EVENTS;Object.keys(o).forEach(function(e){if(0===o[e])i.prototype["on"+e]=function(){this.scope.emit
(e)};else if(1===o[e])i.prototype["on"+e]=function(t){this.scope.emit(e,t)};else if(2===o[e])throw Error("wrong
number of
arguments!");i.prototype["on"+e]=function(t,n){this.scope.emit(e,t,n)}}}),{"/":36,"./WritableStream.js":35,inheri
s:38}],34:[function(e,t,n){function r(e){return"====e||\n"===e||"\t"===e||"\f"===e||"\r"===e}function i(e,t){return
function(n){n===e&&(this._state=t)}function a(e,t,n){var r=e.toLowerCase();return
e===r?function(e){e===r?this._state=t:(this._state=n,this._index--
):function(i){i===r||i===e?this._state=t:(this._state=n,this._index--)}function o(e,t){var n=e.toLowerCase();return
function(r){r===n||r===e?this._state=t:(this._state=m,this._index--)}function
s(e,t){this._state=f,this._buffer="",this._sectionStart=0,this._index=0,this._bufferOffset=0,this._baseState=f,this._sp
cial=me,this._cbs=t,this._running=!0,this._ended=!1,this._xmlMode=!(!e||e.xmlMode),this._decodeEntities=!(!e||
e.decodeEntities)}t.exports=s;var
l=e("entities/lib/decode_codepoint.js"),u=e("entities/maps/entities.json"),c=e("entities/maps/legacy.json"),p=e("entit
ies/maps/xml.json"),h=0,f=h++,d=h++,m=h++,g=h++,y=h++,v=h++,b=h++,w=h++,_h=h++,x=h++,A=h++,S=h++,j
=h++,E=h++,O=h++,k=h++,T=h++,C=h++,I=h++,D=h++,L=h++,M=h++,R=h++,U=h++,P=h++,q=h++,B=h++,N=
h++,z=h++,$=h++,F=h++,V=h++,H=h++,Y=h++,J=h++,W=h++,Q=h++,G=h++,K=h++,X=h++,Z=h++,ee=h++,te=
h++,ne=h++,re=h++,ie=h++,ae=h++,oe=h++,se=h++,le=h++,ue=h++,ce=h++,pe=h++,he=h++,fe=h++,de=0,me=de
++,ge=de++,ye=de++;s.prototype._stateText=function(e){"<"===e?(this._index>this._sectionStart&&this._cbs.ontex
t(this._getSection()),this._state=d,this._sectionStart=this._index):this._decodeEntities&&this._special===me&&"
&"===e&&(this._index>this._sectionStart&&this._cbs.ontext(this._getSection()),this._baseState=f,this._state=ue,th
is._sectionStart=this._index)},s.prototype._stateBeforeTagName=function(e){"/"===e?this._state=y:"<"===e?(this.
_cbs.ontext(this._getSection()),this._sectionStart=this._index):">"===e||this._special!==me||r(e)?this._state=f:"!"==
=e?(this._state=O,this._sectionStart=this._index+1):"?"===e?(this._state=T,this._sectionStart=this._index+1):(this._
state=this._xmlMode||"s"!==e&&"S"!==e?m:F,this._sectionStart=this._index)},s.prototype._stateInTagName=funct
ion(e){("/"===e||">"===e||r(e))&&(this._emitToken("onopentagname"),this._state=w,this._index--
)},s.prototype._stateBeforeClosingTagName=function(e){r(e)||(">"===e?this._state=f:this._special!==me?"s"===e
||"S"===e?this._state=V:(this._state=f,this._index--
):(this._state=v,this._sectionStart=this._index))},s.prototype._stateInClosingTagName=function(e){(">"===e||r(e))
&&(this._emitToken("onclosetag"),this._state=b,this._index--
)},s.prototype._stateAfterClosingTagName=function(e){">"===e&&(this._state=f,this._sectionStart=this._index+1
)},s.prototype._stateBeforeAttributeName=function(e){">"===e?(this._cbs.onopentagend(),this._state=f,this._sectio
nStart=this._index+1):"/"===e?this._state=g:r(e)||this._state=_this._sectionStart=this._index)},s.prototype._stateIn
SelfClosingTag=function(e){">"===e?(this._cbs.onselfclosingtag(),this._state=f,this._sectionStart=this._index+1):r(
e)||this._state=w,this._index--
)},s.prototype._stateInAttributeName=function(e){("="===e||"/"===e||">"===e||r(e))&&(this._cbs.onattribname(this
._getSection()),this._sectionStart=-1,this._state=x,this._index--
)},s.prototype._stateAfterAttributeName=function(e){"="===e?this._state=A:"/"===e||">"===e?(this._cbs.onattribe
nd(),this._state=w,this._index--
):r(e)||this._cbs.onattribend(),this._state=_this._sectionStart=this._index)},s.prototype._stateBeforeAttributeValue=
function(e){'"'"===e?(this._state=S,this._sectionStart=this._index+1):'"'"===e?(this._state=j,this._sectionStart=this._i
ndex+1):r(e)||this._state=E,this._sectionStart=this._index,this._index--
)},s.prototype._stateInAttributeValueDoubleQuotes=function(e){'"'"===e?(this._emitToken("onattribdata"),this._cbs.
onattribend(),this._state=w):this._decodeEntities&&"&"===e&&(this._emitToken("onattribdata"),this._baseState=t
his._state,this._state=ue,this._sectionStart=this._index)},s.prototype._stateInAttributeValueSingleQuotes=function(e)
{'"'"===e?(this._emitToken("onattribdata"),this._cbs.onattribend(),this._state=w):this._decodeEntities&&"&"===e
&&(this._emitToken("onattribdata"),this._baseState=this._state,this._state=ue,this._sectionStart=this._index)},s.prot

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otype._stateInAttributeValueNoQuotes=function(e){r(e)||">"===e?(this._emitToken("onattribdata"),this._cbs.onattrib
bend(),this._state=w,this._index--
):this._decodeEntities&&"&"===e&&(this._emitToken("onattribdata"),this._baseState=this._state,this._state=ue,thi
s._sectionStart=this._index)},s.prototype._stateBeforeDeclaration=function(e){this._state="["===e?M:"-
"===e?C:k},s.prototype._stateInDeclaration=function(e){">"===e&&(this._cbs.ondeclaration(this._getSection()),th
is._state=f,this._sectionStart=this._index+1)},s.prototype._stateInProcessingInstruction=function(e){">"===e&&(th
is._cbs.onprocessinginstruction(this._getSection()),this._state=f,this._sectionStart=this._index+1)},s.prototype._stat
eBeforeComment=function(e){"-
"===e?(this._state=l,this._sectionStart=this._index+1):this._state=k},s.prototype._stateInComment=function(e){"-
"===e&&(this._state=D)},s.prototype._stateAfterComment1=function(e){"-
"===e?this._state=L:this._state=I},s.prototype._stateAfterComment2=function(e){">"===e?(this._cbs.oncomment(t
his._buffer.substring(this._sectionStart,this._index-2)),this._state=f,this._sectionStart=this._index+1):-
"!===e&&(this._state=I)},s.prototype._stateBeforeCdata1=a("C",R,k),s.prototype._stateBeforeCdata2=a("D",U,k),s.
prototype._stateBeforeCdata3=a("A",P,k),s.prototype._stateBeforeCdata4=a("T",q,k),s.prototype._stateBeforeCdata
5=a("A",B,k),s.prototype._stateBeforeCdata6=function(e){ "["===e?(this._state=N,this._sectionStart=this._index+1)
:(this._state=k,this._index--
)},s.prototype._stateInCdata=function(e){ "]"===e&&(this._state=z)},s.prototype._stateAfterCdata1=i("]",s),s.protot
ype._stateAfterCdata2=function(e){ ">"===e?(this._cbs.oncdata(this._buffer.substring(this._sectionStart,this._index-
2)),this._state=f,this._sectionStart=this._index+1): "]"!=""===e&&(this._state=N)},s.prototype._stateBeforeSpecial=func
tion(e){ "c"===e||"C"===e?this._state=H:"t"===e||"T"===e?this._state=te:(this._state=m,this._index--
)},s.prototype._stateBeforeSpecialEnd=function(e){ this._special!=""===ge||"c"!=""===e&&"C"!=""===e?this._special!=""===ye||"t"!
===e&&"T"!=""===e?this._state=f:this._state=ae:this._state=G},s.prototype._stateBeforeScript1=o("R",Y),s.prototype._s
tateBeforeScript2=o("I",J),s.prototype._stateBeforeScript3=o("P",W),s.prototype._stateBeforeScript4=o("T",Q),s.pr
ototype._stateBeforeScript5=function(e){ ("/"===e||">"===e||r(e))&&(this._special=ge),this._state=m,this._index--
},s.prototype._stateAfterScript1=a("R",K,f),s.prototype._stateAfterScript2=a("I",X,f),s.prototype._stateAfterScript3
=a("P",Z,f),s.prototype._stateAfterScript4=a("T",ee,f),s.prototype._stateAfterScript5=function(e){
">"===e||r(e)?(this._special=me,this._state=v,this._sectionStart=this._index-6,this._index--
):this._state=f},s.prototype._stateBeforeStyle1=o("Y",ne),s.prototype._stateBeforeStyle2=o("L",re),s.prototype._stat
eBeforeStyle3=o("E",ie),s.prototype._stateBeforeStyle4=function(e){ ("/"===e||">"===e||r(e))&&(this._special=ye),
this._state=m,this._index--
},s.prototype._stateAfterStyle1=a("Y",oe,f),s.prototype._stateAfterStyle2=a("L",se,f),s.prototype._stateAfterStyle3=
a("E",le,f),s.prototype._stateAfterStyle4=function(e){ ">"===e||r(e)?(this._special=me,this._state=v,this._sectionStar
t=this._index-5,this._index--
):this._state=f},s.prototype._stateBeforeEntity=a("#",ce,pe),s.prototype._stateBeforeNumericEntity=a("X",fe,he),s.p
rototype._parseNamedEntityStrict=function(){if(this._sectionStart+1<this._index){var
e=this._buffer.substring(this._sectionStart+1,this._index),t=this._xmlMode?p:u;t.hasOwnProperty(e)&&(this._emit
Partial(t[e]),this._sectionStart=this._index+1)},s.prototype._parseLegacyEntity=function(){var
e=this._sectionStart+1,t=this._index-e;for(t>6&&(t=6);t>=2;){var
n=this._buffer.substr(e,t);if(c.hasOwnProperty(n))return this._emitPartial(c[n]),void(this._sectionStart+=t+1);t--
}},s.prototype._stateInNamedEntity=function(e){ ";"===e?(this._parseNamedEntityStrict(),this._sectionStart+1<this
._index&&!this._xmlMode&&this._parseLegacyEntity(),this._state=this._baseState):(e<"a"||e>"z")&&(e<"A"||e>"Z
")&&(e<"0"||e>"9")&&(this._xmlMode||this._sectionStart+1===this._index||(this._baseState!=""===f?"!=""===e&&this._
parseNamedEntityStrict():this._parseLegacyEntity()),this._state=this._baseState,this._index--
)},s.prototype._decodeNumericEntity=function(e,t){var n=this._sectionStart+e;if(n!=""===this._index){var
r=this._buffer.substring(n,this._index),i=parseInt(r,t);this._emitPartial(l(i)),this._sectionStart=this._index}else
this._sectionStart--
};this._state=this._baseState},s.prototype._stateInNumericEntity=function(e){ ";"===e?(this._decodeNumericEntity(2
,10),this._sectionStart++):(e<"0"||e>"9")&&(this._xmlMode?this._state=this._baseState:this._decodeNumericEntity(

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2,10),this._index--
)},s.prototype._stateInHexEntity=function(e){";"===e?(this._decodeNumericEntity(3,16),this._sectionStart++):(e<"
a"||e>"f")&&(e<"A"||e>"F")&&(e<"0"||e>"9")&&(this._xmlMode?this._state=this._baseState:this._decodeNumeric
Entity(3,16),this._index--
)},s.prototype._cleanup=function(){this._sectionStart<0?(this._buffer="",this._index=0,this._bufferOffset+=this._in
dex):this._running&&(this._state===f?(this._sectionStart!==this._index&&this._cbs.oncontext(this._buffer.substr(this
._sectionStart)),this._buffer="",this._bufferOffset+=this._index,this._index=0):this._sectionStart===this._index?(this
._buffer="",this._bufferOffset+=this._index,this._index=0):(this._buffer=this._buffer.substr(this._sectionStart),this._
index-
=this._sectionStart,this._bufferOffset+=this._sectionStart),this._sectionStart=0)},s.prototype.write=function(e){this
._ended&&this._cbs.onerror(Error(".write()
after
done!")),this._buffer+=e,this._parse()},s.prototype._parse=function(){for(;this._index<this._buffer.length&&this._r
unning;){var
e=this._buffer.charAt(this._index);this._state===f?this._stateText(e):this._state===d?this._stateBeforeTagName(e):t
his._state===m?this._stateInTagName(e):this._state===y?this._stateBeforeClosingTagName(e):this._state===v?th
is._stateInClosingTagName(e):this._state===b?this._stateAfterClosingTagName(e):this._state===g?this._stateInS
elfClosingTag(e):this._state===w?this._stateBeforeAttributeName(e):this._state===_?this._stateInAttributeName(e)
:this._state===x?this._stateAfterAttributeName(e):this._state===A?this._stateBeforeAttributeValue(e):this._state==
=S?this._stateInAttributeValueDoubleQuotes(e):this._state===j?this._stateInAttributeValueSingleQuotes(e):this._st
ate===E?this._stateInAttributeValueNoQuotes(e):this._state===O?this._stateBeforeDeclaration(e):this._state===k?
this._stateInDeclaration(e):this._state===T?this._stateInProcessingInstruction(e):this._state===C?this._stateBefore
Comment(e):this._state===I?this._stateInComment(e):this._state===D?this._stateAfterComment1(e):this._state===
L?this._stateAfterComment2(e):this._state===M?this._stateBeforeCdata1(e):this._state===R?this._stateBeforeCdat
a2(e):this._state===U?this._stateBeforeCdata3(e):this._state===P?this._stateBeforeCdata4(e):this._state===q?this._
stateBeforeCdata5(e):this._state===B?this._stateBeforeCdata6(e):this._state===N?this._stateInCdata(e):this._state=
=z?this._stateAfterCdata1(e):this._state===S?this._stateAfterCdata2(e):this._state===F?this._stateBeforeSpecial(e
):this._state===V?this._stateBeforeSpecialEnd(e):this._state===H?this._stateBeforeScript1(e):this._state===Y?this
._stateBeforeScript2(e):this._state===J?this._stateBeforeScript3(e):this._state===W?this._stateBeforeScript4(e):this
._state===Q?this._stateBeforeScript5(e):this._state===G?this._stateAfterScript1(e):this._state===K?this._stateAfter
Script2(e):this._state===X?this._stateAfterScript3(e):this._state===Z?this._stateAfterScript4(e):this._state===ee?th
is._stateAfterScript5(e):this._state===te?this._stateBeforeStyle1(e):this._state===ne?this._stateBeforeStyle2(e):th
is._state===re?this._stateBeforeStyle3(e):this._state===ie?this._stateBeforeStyle4(e):this._state===ae?this._stateAfter
Style1(e):this._state===oe?this._stateAfterStyle2(e):this._state===se?this._stateAfterStyle3(e):this._state===le?th
is._stateAfterStyle4(e):this._state===ue?this._stateBeforeEntity(e):this._state===ce?this._stateBeforeNumericEntity(e
):this._state===pe?this._stateInNamedEntity(e):this._state===he?this._stateInNumericEntity(e):this._state===fe?thi
s._stateInHexEntity(e):this._cbs.onerror(Error("unknown
_state"),this._state),this._index++}this._cleanup()},s.prototype.pause=function(){this._running=!1},s.prototype.resu
me=function(){this._running=!0,this._index<this._buffer.length&&this._parse(),this._ended&&this._finish()},s.prot
otype.end=function(e){this._ended&&this._cbs.onerror(Error(".end()
after
done!")),e&&this.write(e),this._ended=!0,this._running&&this._finish()},s.prototype._finish=function(){this._sectio
nStart<this._index&&this._handleTrailingData(),this._cbs.onend()},s.prototype._handleTrailingData=function(){var
e=this._buffer.substr(this._sectionStart);this._state===N||this._state===z||this._state===S?this._cbs.oncdata(e):this
._state===I||this._state===D||this._state===L?this._cbs.oncomment(e):this._state!==pe||this._xmlMode?this._state!
=he||this._xmlMode?this._state!==fe||this._xmlMode?this._state!==m&&this._state!==w&&this._state!==A&&this._
state!==x&&this._state!==_&&this._state!==j&&this._state!==S&&this._state!==E&&this._state!==v&&this._cbs
.oncontext(e):(this._decodeNumericEntity(3,16),this._sectionStart<this._index&&(this._state=this._baseState,this._hand

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leTrailingData())):(this._decodeNumericEntity(2,10),this._sectionStart<this._index&&(this._state=this._baseState,th
is._handleTrailingData())):(this._parseLegacyEntity(),this._sectionStart<this._index&&(this._state=this._baseState,t
his._handleTrailingData()))},s.prototype.reset=function(){s.call(this,{xmlMode:this._xmlMode,decodeEntities:this.
_decodeEntities},this._cbs)},s.prototype.getAbsoluteIndex=function(){return
this._bufferOffset+this._index},s.prototype._getSection=function(){return
this._buffer.substring(this._sectionStart,this._index)},s.prototype._emitToken=function(e){this._cbs[e](this._getSect
ion()),this._sectionStart=-
1},s.prototype._emitPartial=function(e){this._baseState!==f?this._cbs.onattribdata(e):this._cbs.oncontext(e)},{ "entitie
s/lib/decode_codepoint.js":22,"entities/maps/entities.json":25,"entities/maps/legacy.json":26,"entities/maps/xml.json
":27}],35:[function(e,t,n){function r(e,t){var n=this._parser=new i(e,t),r=this._decoder=new
o;a.call(this,{decodeStrings:!1}),this.once("finish",function(){n.end(r.end())})}t.exports=r;var
i=e("./Parser.js"),a=e("stream").Writable||e("readable-
stream").Writable,o=e("string_decoder").StringDecoder,s=e("buffer").Buffer;e("inherits")(r,a),a.prototype._write=fu
nction(e,t,n){e instanceof
s&&(e=this._decoder.write(e),this._parser.write(e),n)},{"./Parser.js":31,buffer:5,inherits:38,"readable-
stream":3,stream:55,string_decoder:56}],36:[function(e,t,n){function r(e,n){return delete
t.exports[e],t.exports[e]=n,n}var
i=e("./Parser.js"),a=e("domhandler");t.exports={Parser:i,Tokenizer:e("./Tokenizer.js"),ElementType:e("domelement
type"),DomHandler:a.getFeedHandler(){return r("FeedHandler",e("./FeedHandler.js"))},getStream(){return
r("Stream",e("./Stream.js"))},getWritableStream(){return r("WritableStream",e("./WritableStream.js"))},get
ProxyHandler(){return r("ProxyHandler",e("./ProxyHandler.js"))},getDomUtils(){return
r("DomUtils",e("domutils"))},getCollectingHandler(){return
r("CollectingHandler",e("./CollectingHandler.js"))},DefaultHandler:a.get
RssHandler(){return r("RssHandler",this.FeedHandler)},parseDOM:function(e,t){var n=new a(t);return new
i(n,t).end(e),n.dom},parseFeed:function(e,n){var r=new t.exports.FeedHandler(n);return new
i(r,n).end(e),r.dom},createDomStream:function(e,t,n){var r=new a(e,t,n);return new
i(r,t),EVENTS:{attribute:2,cdatastart:0,cdataend:0,text:1,processinginstruction:2,comment:1,commentend:0,closeta
g:1,opentag:2,opentagname:1,error:1,end:0}},{ "./CollectingHandler.js":29,"./FeedHandler.js":30,"./Parser.js":31,"./
ProxyHandler.js":32,"./Stream.js":33,"./Tokenizer.js":34,"./WritableStream.js":35,domelementtype:9,domhandler:10
,domutils:13}],37:[function(e,t,n){n.read=function(e,t,n,r,i){var a,o,s=8*i-r-1,l=(1<<s)-1,u=l>>1,c=-7,p=n?i-
1:0,h=n?-1:1,f=e[t+p];for(p+=h,a=f&(1<<-c)-1,f>>=-c,c+=s;c>0;a=256*a+e[t+p],p+=h,c-=8);for(o=a&(1<<-c)-
1,a>>=-c,c+=r;c>0;o=256*o+e[t+p],p+=h,c-=8);if(0===a)a=1-u;else{if(a===1)return o?NaN:(f?-
1:1)*(1/0);o+=Math.pow(2,r),a=-u}return(f?-1:1)*o*Math.pow(2,a-r)},n.write=function(e,t,n,r,i,a){var
o,s,l,u=8*a-i-1,c=(1<<u)-1,p=c>>1,h=23===i?Math.pow(2,-24)-Math.pow(2,-77):0,f=r?0:a-1,d=r?1:-
1,m=t<0||0===t&&1/t<0?1:0;for(t=Math.abs(t),isNaN(t)||t===1/0?(s=isNaN(t)?1:0,o=c):(o=Math.floor(Math.log(t)/
Math.LN2),t*(l=Math.pow(2,-o))<1&&(o--,l*=2),t+=o+p>=1?h/l:h*Math.pow(2,1-
p),t*l>=2&&(o++,l/=2),o+p>=c?(s=0,o=c):o+p>=1?(s=(t*1-1)*Math.pow(2,i),o+=p):(s=t*Math.pow(2,p-
1)*Math.pow(2,i),o=0));i>=8;e[n+f]=255&s,f+=d,s/=256,i-
=8);for(o=0<<i|s,u+=i;u>0;e[n+f]=255&o,f+=d,o/=256,u-=8);e[n+f-
d]=128*m}},{}],38:[function(e,t,n){ "function"===typeof
Object.create?t.exports=function(e,t){e.super_=t,e.prototype=Object.create(t.prototype,{constructor:{value:e,enumera
ble:!1,writable:!0,configurable:!0}})}:t.exports=function(e,t){e.super_=t;var
n=function(){};n.prototype=t.prototype,e.prototype=new
n,e.prototype.constructor=e}},{}],39:[function(e,t,n){function r(e){return!!e.constructor&&"function"===typeof
e.constructor.isBuffer&&e.constructor.isBuffer(e)}function
i(e){return"function"===typeof e.readFloatLE&&"function"===typeof
e.slice&&r(e.slice(0,0))}t.exports=function(e){return
null!=e&&(r(e)||i(e)||!e._isBuffer)},{}],40:[function(e,t,n){var

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r={}.toString;t.exports=Array.isArray||function(e){return"[object
Array]"==r.call(e)}},{}},41:[function(e,t,n){(function(e){"use strict";function n(t,n,r,i){if("function"!=typeof
t)throw new TypeError("callback" argument must be a function');var a,o,s=arguments.length;switch(s){case 0:case
1:return e.nextTick(t);case 2:return e.nextTick(function(){t.call(null,n)});case 3:return
e.nextTick(function(){t.call(null,n,r)});case 4:return e.nextTick(function(){t.call(null,n,r,i)});default:for(a=new
Array(s-1),o=0;o<a.length;a[o++]=arguments[o]);return
e.nextTick(function(){t.apply(null,a)}})}!e.version||0===e.version.indexOf("v0.")||0===e.version.indexOf("v1.")&
&&!e.version.indexOf("v1.8.")?t.exports=n:t.exports=e.nextTick}).call(this,e("_process")),{}},42:[function(e,t,n){function r(){throw
new Error("setTimeout has not been defined")}function i(){throw new Error("clearTimeout has not been
defined")}function a(e){if(p===setTimeout)return setTimeout(e,0);if((p===r||!p)&&setTimeout)return
p=setTimeout,setTimeout(e,0);try{return p(e,0)}catch(t){try{return p.call(null,e,0)}catch(t){return
p.call(this,e,0)}}}function o(e){if(h===clearTimeout)return clearTimeout(e);if((h===i||!h)&&clearTimeout)return
h=clearTimeout,clearTimeout(e);try{return h(e)}catch(t){try{return h.call(null,e)}catch(t){return
h.call(this,e)}}}function s(){g&&d&&(g=!1,d.length?m=d.concat(m):y=-1,m.length&&l())}function l(){if(!g){var
e=a(s);g=!0;for(var t=m.length;t;){for(d=m,m=[];++y<t;)d&&d[y].run();y=-
1,t=m.length}d=null,g=!1,o(e)}}function u(e,t){this.fun=e,this.array=t}function c(){}var
p,h,f=t.exports={};!function(){try{p="function"==typeof
setTimeout?setTimeout:r}catch(e){p=r}try{h="function"==typeof
clearTimeout?clearTimeout:i}catch(e){h=i}}();var d,m=[],g=!1,y=-1;f.nextTick=function(e){var t=new
Array(arguments.length-1);if(arguments.length>1)for(var n=1;n<arguments.length;n++)t[n-
1]=arguments[n];m.push(new
u(e,t)),1!==m.length||g||a(l)},u.prototype.run=function(){this.fun.apply(null,this.array)},f.title="browser",f.browser=
!0,f.env={},f.argv=[],f.version="",f.versions={},f.on=c,f.addListener=c,f.once=c,f.off=c,f.removeListener=c,f.remove
AllListeners=c,f.emit=c,f.binding=function(e){throw new Error("process.binding is not
supported")},f.cwd=function(){return"/"},f.chdir=function(e){throw new Error("process.chdir is not
supported")},f.umask=function(){return
0}},{}},43:[function(e,t,n){t.exports=e("./lib/_stream_duplex.js")},{}},44:[function(e,t,n
){"use strict";function r(e){return this instanceof
r?(u.call(this,e),c.call(this,e),e&&e.readable===!1&&(this.readable=!1),e&&e.writable===!1&&(this.writable=!1),t
his.allowHalfOpen=!0,e&&e.allowHalfOpen===!1&&(this.allowHalfOpen=!1),void this.once("end",i)):new
r(e)}function i(){this.allowHalfOpen||this._writableState.ended||s(a,this)}function
a(e){e.end()}var o=Object.keys||function(e){var t=[];for(var n in e)t.push(n);return t};t.exports=r;var s=e("process-
nexttick-args"),l=e("core-util-is");l.inherits=e("inherits");var
u=e("./_stream_readable"),c=e("./_stream_writable");l.inherits(r,u);for(var
p=o(c.prototype),h=0;h<p.length;h++){var
f=p[h];r.prototype[f]||(r.prototype[f]=c.prototype[f])},{"./_stream_readable":46,"./_stream_writable":48,"core-util-
is":6,inherits:38,"process-nexttick-args":41}},45:[function(e,t,n){"use strict";function r(e){return this instanceof
r?void i.call(this,e):new r(e)}t.exports=r;var i=e("./_stream_transform"),a=e("core-util-
is");a.inherits=e("inherits"),a.inherits(r,i),r.prototype._transform=function(e,t,n){n(null,e)},{"./_stream_transform":
47,"core-util-is":6,inherits:38}},46:[function(e,t,n){(function(n){"use strict";function
r(e,t,n){return"function"==typeof
e.prependListener?e.prependListener(t,n):void(e._events&&e._events[t]?C(e._events[t]?e._events[t].unshift(n):e._e
vents[t]=[n,e._events[t]]:e.on(t,n))}function
i(t,n){N=N||e("./_stream_duplex"),t=t||{}},this.objectMode=!t.objectMode,n instanceof
N&&(this.objectMode=this.objectMode||!t.readableObjectMode);var
r=t.highWaterMark,i=this.objectMode?16:16384;this.highWaterMark=r||0===r?r:i,this.highWaterMark===~this.high
WaterMark,this.buffer=new

```



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B,this.length=0,this.pipes=null,this.pipesCount=0,this.flowing=null,this.ended=!1,this.endEmitted=!1,this.reading=!
1,this.sync=!0,this.needReadable=!1,this.emittedReadable=!1,this.readableListening=!1,this.resumeScheduled=!1,th
is.defaultEncoding=t.defaultEncoding||"utf8",this.ranOut=!1,this.awaitDrain=0,this.readingMore=!1,this.decoder=nu
ll,this.encoding=null,t.encoding&&(q||(q=e("string_decoder/").StringDecoder),this.decoder=new
q(t.encoding),this.encoding=t.encoding)}function a(t){return N=N||e("./_stream_duplex"),this instanceof
a?(this._readableState=new i(t,this),this.readable=!0,t&&"function"===typeof t.read&&(this._read=t.read),void
L.call(this)):new
a(t)}function o(e,t,n,r,i){var a=c(t,n);if(a)e.emit("error",a);else if(null===n)t.reading=!1,p(e,t);else
if(t.objectMode||n&&n.length>0)if(t.ended&&!i){var o=new Error("stream.push() after
EOF");e.emit("error",o)}else if(t.endEmitted&&i){var l=new Error("stream.unshift() after end
event");e.emit("error",l)}else{var
u;t.decoder||i||r|(n=t.decoder.write(n),u=!t.objectMode&&0===n.length),i|(t.reading=!1),u|(t.flowing&&0===t.len
gth&&!t.sync?(e.emit("data",n),e.read(0):(t.length+=t.objectMode?1:n.length,i?t.buffer.unshift(n):t.buffer.push(n),t
.needReadable&&h(e))),d(e,t)}else i|(t.reading=!1);return s(t)}function
s(e){return!e.ended&&(e.needReadable||e.length<e.highWaterMark||0===e.length)}function l(e){return
e>=z?e=z:(e-=,e|=e>>>1,e|=e>>>2,e|=e>>>4,e|=e>>>8,e|=e>>>16,e++),e}function u(e,t){return
e<=0||0===t.length&&t.ended?0:t.objectMode?1:e!===e?t.flowing&&t.length?t.buffer.head.data.length:t.length:(e>t.
highWaterMark&&(t.highWaterMark=l(e)),e<=t.length?e:t.ended?t.length:(t.needReadable=!0,0))}function
c(e,t){var n=null;return L.isBuffer(t)||"string"===typeof t||null===t||void 0===t||e.objectMode||(n=new
TypeError("Invalid non-string/buffer chunk"),n)}function p(e,t){if(!t.ended){if(t.decoder){var
n=t.decoder.end();n&&n.length&&(t.buffer.push(n),t.length+=t.objectMode?1:n.length)}t.ended=!0,h(e)}function
h(e){var
t=e._readableState;t.needReadable=!1,t.emittedReadable||(P("emitReadable",t.flowing),t.emittedReadable=!0,t.sync
?T(f,e):f(e))}function f(e){P("emit readable"),e.emit("readable"),w(e)}function
d(e,t){t.readingMore||(t.readingMore=!0,T(m,e,t))}function m(e,t){for(var
n=t.length;t.reading&&t.flowing&&t.ended&&t.length<t.highWaterMark&&(P("maybeReadMore read
0"),e.read(0),n!===t.length);n=t.length;t.readingMore=!1)}function g(e){return function(){var
t=e._readableState;P("pipeOnDrain",t.awaitDrain),t.awaitDrain&&t.awaitDrain--
,0===t.awaitDrain&&D(e,"data")&&(t.flowing=!0,w(e))}}function y(e){P("readable nexttick read
0"),e.read(0)}function v(e,t){t.resumeScheduled||(t.resumeScheduled=!0,T(b,e,t))}function
b(e,t){t.reading||(P("resume read
0"),e.read(0)),t.resumeScheduled=!1,t.awaitDrain=0,e.emit("resume"),w(e),t.flowing&&!t.reading&&e.read(0)}func
tion w(e){var t=e._readableState;for(P("flow",t.flowing);t.flowing&&null!==e.read();)}function
_(e,t){if(0===t.length)return null;var n;return
t.objectMode?n=t.buffer.shift():!e||e>=t.length?(n=t.decoder?t.buffer.join(""):1===t.buffer.length?t.buffer.head.data:
t.buffer.concat(t.length),t.buffer.clear()):n=x(e,t.buffer,t.decoder,n)}function x(e,t,n){var r;return
e<t.head.data.length?(r=t.head.data.slice(0,e),t.head.data=t.head.data.slice(e):r=e===t.head.data.length?t.shift():n?A
(e,t):S(e,t,r)}function A(e,t){var n=t.head,r=1,i=n.data;for(e=i.length;n=n.next;){var
a=n.data,o=e>a.length?a.length:e;if(i+=o===a.length?a.slice(0,e),e-
=o,0===e){o===a.length?(++r,n.next?t.head=n.next:t.head=t.tail=null):(t.head=n,n.data=a.slice(o));break}++r}retur
n t.length-r,i}function S(e,t){var n=M.allocUnsafe(e),r=t.head,i=1;for(r.data.copy(n),e-
=r.data.length;r=r.next;){var
a=r.data,o=e>a.length?a.length:e;if(a.copy(n,n.length-e,0,o),e-
=o,0===e){o===a.length?(++i,r.next?t.head=r.next:t.head=t.tail=null):(t.head=r,r.data=a.slice(o));break}++i}return
t.length-i,n}function j(e){var t=e._readableState;if(t.length>0)throw new Error("endReadable() called on non-
empty stream");t.endEmitted||(t.ended=!0,T(E,t,e))}function
E(e,t){e.endEmitted||0!==e.length||(e.endEmitted=!1,t.readable=!1,t.emit("end"))}function O(e,t){for(var
n=0,r=e.length;n<r;n++)t(e[n],n)}function k(e,t){for(var n=0,r=e.length;n<r;n++)if(e[n]===t)return n;return-

```

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1 }t.exports=a;var T=e("process-nextick-args"),C=e("isarray");a.ReadableState=i;var
I,D=(e("events").EventEmitter,function(e,t){return
e.listeners(t).length});!function(){try{I=e("stream")}catch(t){finally{I||(I=e("events").EventEmitter)}}();var
L=e("buffer").Buffer,M=e("buffer-shims"),R=e("core-util-is");R.inherits=e("inherits");var U=e("util"),P=void
0;P=U&&U.debuglog?U.debuglog("stream"):function(){};var
q,B=e("./internal/streams/BufferList");R.inherits(a,I);var N,N;a.prototype.push=function(e,t){var
n=this._readableState;return n.objectMode||"string"!==typeof
e||(t=t||n.defaultEncoding,t!==n.encoding&&(e=M.from(e,t,t===n.encoding),o(this,n,e,t,!1)),a.prototype.unshift=function(e){
var t=this._readableState;return o(this,t,e,"",!0)},a.prototype.isPaused=function(){return
this._readableState.flowing===!1},a.prototype.setEncoding=function(t){return
q||(q=e("string_decoder").StringDecoder),this._readableState.decoder=new
q(t),this._readableState.encoding=t,this);var
z=8388608;a.prototype.read=function(e){P("read",e),e=parseInt(e,10);var
t=this._readableState,n=e;if(0!==(e&&(t.emittedReadable=!1),0===e&&t.needReadable&&(t.length>=t.highWater
Mark||t.ended))return P("read:
emitReadable",t.length,t.ended),0===t.length&&t.ended?j(this):h(this),null;if(e=u(e,t),0===e&&t.ended)return
0===t.length&&j(this),null;var r=t.needReadable;P("need readable",r),(0===t.length||t.length-
e<t.highWaterMark)&&(r=!0,P("length
less than watermark",r)),t.ended||t.reading?(r=!1,P("reading or ended",r)):r&&(P("do
read"),t.reading=!0,t.sync=!0,0===t.length&&(t.needReadable=!0),this._read(t.highWaterMark),t.sync=!1,t.reading|
|(e=u(n,t)));var i;return i=e>0?_(e,t):null,null===i?(t.needReadable=!0,e=0):t.length-
=e,0===t.length&&(t.ended||t.needReadable=!0),n!==(e&&t.ended&&j(this)),null!==i&&this.emit("data",i),a.pr
ototype._read=function(e){this.emit("error",new Error("not
implemented"))},a.prototype.pipe=function(e,t){function i(e){P("onunpipe"),e===h&&o()}function
a(){P("onend"),e.end()}function
o(){P("cleanup"),e.removeListener("close",u),e.removeListener("finish",c),e.removeListener("drain",y),e.removeLis
tener("error",l),e.removeListener("unpipe",i),h.removeListener("end",a),h.removeListener("end",o),h.removeListene
r("data",s),v=!0,!f.awaitDrain||e._writableState&&!e._writableState.needDrain||y)}function
s(t){P("ondata"),b=!1;var
n=e.write(t);!1!==n||b||((1===f.pipesCount&&f.pipes===e||f.pipesCount>1&&k(f.pipes,e)!==-1)&&!v&&(P("false
write response, pause",h._readableState.awaitDrain),h._readableState.awaitDrain++,b=!0),h.pause())}function
l(t){P("onerror",t),p(),e.removeListener("error",l),0===D(e,"error")&&e.emit("error",t)}function
u(){e.removeListener("finish",c),p()}function c(){P("onfinish"),e.removeListener("close",u),p()}function
p(){P("unpipe"),h.unpipe(e)}var h=this,f=this._readableState;switch(f.pipesCount){case 0:f.pipes=e;break;case
1:f.pipes=[f.pipes,e];break;default:f.pipes.push(e),f.pipesCount+=1,P("pipe count=%d opts=%j",f.pipesCount,t);var
d=(t||t.end!==!1)&&e!==n.stdout&&e!==n.stderr,m=d?a:o;f.endEmitted?T(m):h.once("end",m),e.on("unpipe",i);va
r y=g(h);e.on("drain",y);var v=!1,b=!1;return
h.on("data",s),r(e,"error",l),e.once("close",u),e.once("finish",c),e.emit("pipe",h),f.flowing||P("pipe
resume"),h.resume(),e},a.prototype.unpipe=function(e){var t=this._readableState;if(0===t.pipesCount)return
this;if(1===t.pipesCount)return
e&&e!==t.pipes?this:(e||(e=t.pipes),t.pipes=null,t.pipesCount=0,t.flowing=!1,e&&e.emit("unpipe",this),this);if(!e){
var n=t.pipes,r=t.pipesCount;t.pipes=null,t.pipesCount=0,t.flowing=!1;for(var
i=0;i<r;i++)n[i].emit("unpipe",this);return this}var a=k(t.pipes,e);return a===-
1?this:(t.pipes.splice(a,1),t.pipesCount-
=1,1===t.pipesCount&&(t.pipes=t.pipes[0]),e.emit("unpipe",this),this)},a.prototype.on=function(e,t){var
n=I.prototype.on.call(this,e,t);if("data"===e)this._readableState.flowing!==!1&&this.resume();else
if("readable"===e){var
r=this._readableState;r.endEmitted||r.readableListening||(r.readableListening=r.needReadable=!0,r.emittedReadable

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=!1,r.reading?r.length&&h(this,r):T(y,this))return
n},a.prototype.addListener=a.prototype.on,a.prototype.resume=function(){var e=this._readableState;return
e.flowing||(P("resume"),e.flowing=!0,v(this,e)),this},a.prototype.pause=function(){return P("call pause
flowing=%j",this._readableState.flowing,!1!==this._readableState.flowing&&(P("pause"),this._readableState.flowi
ng=!1,this.emit("pause")),this},a.prototype.wrap=function(e){var
t=this._readableState,n=!1,r=this;e.on("end",function(){if(P("wrapped end"),t.decoder&&!t.ended){var
e=t.decoder.end();e&&e.length&&r.push(e)}r.push(null)}),e.on("data",function(i){if(P("wrapped
data"),t.decoder&&(i=t.decoder.write(i)),(!t.objectMode||null!==i&&void
0!==i)&&(t.objectMode||i&&i.length)){var a=r.push(i);a||(n=!0,e.pause())}});for(var i in e)void
0===this[i]&&"function"===typeof e[i]&&(this[i]=function(t){return function(){return
e[t].apply(e,arguments)}}(i));var a=["error","close","destroy","pause","resume"];return
O(a,function(t){e.on(t,r.emit.bind(r,t))}),r._read=function(t){P("wrapped
_read",t),n&&(n=!1,e.resume())},r,a._fromList=_).call(this,e("_process")),{"./_stream_duplex":44,"./internal/str
eams/BufferList":49,_process:42,buffer:5,"buffer-shims":4,"core-util-is":6,events:28,inherits:38,isarray:40,"process-
nexttick-args":41,"string_decoder":56,util:3}],47:[function(e,t,n){"use
strict";function r(e){this.afterTransform=function(t,n){return
i(e,t,n)},this.needTransform=!1,this.transforming=!1,this.writecb=null,this.writechunk=null,this.writeencoding=null
}function i(e,t,n){var r=e._transformState;r.transforming=!1;var i=r.writecb;if(!i)return e.emit("error",new Error("no
writecb in Transform class"));r.writechunk=null,r.writecb=null,null!==n&&void 0!==n&&e.push(n),i(t);var
a=e._readableState;a.reading=!1,(a.needReadable||a.length<a.highWaterMark)&&e._read(a.highWaterMark)}functi
on a(e){if(!(this instanceof a))return new a(e);s.call(this,e),this._transformState=new r(this);var
t=this;this._readableState.needReadable=!0,this._readableState.sync=!1,e&&("function"===typeof
e.transform&&(this._transform=e.transform),"function"===typeof
e.flush&&(this._flush=e.flush)),this.once("prefinish",function(){"function"===typeof
this._flush?this._flush(function(e){o(t,e)}):o(t)});function o(e,t){if(t)return e.emit("error",t);var
n=e._writableState,r=e._transformState;if(n.length)throw
new Error("Calling transform done when ws.length != 0");if(r.transforming)throw new Error("Calling transform
done when still transforming");return e.push(null)}t.exports=a;var s=e("./_stream_duplex"),l=e("core-util-
is");l.inherits=e("inherits"),l.inherits(a,s),a.prototype.push=function(e,t){return
this._transformState.needTransform=!1,s.prototype.push.call(this,e,t)},a.prototype._transform=function(e,t,n){throw
new Error("Not implemented")},a.prototype._write=function(e,t,n){var
r=this._transformState;if(r.writecb=n,r.writechunk=e,r.writeencoding=t,!r.transforming){var
i=this._readableState;(r.needTransform||i.needReadable||i.length<i.highWaterMark)&&this._read(i.highWaterMark
)},a.prototype._read=function(e){var
t=this._transformState;null!==t.writechunk&&t.writecb&&!t.transforming?(t.transforming=!0,this._transform(t.writ
echunk,t.writeencoding,t.afterTransform)):t.needTransform=!0}},{"./_stream_duplex":44,"core-util-
is":6,inherits:38}],48:[function(e,t,n){(function(n){"use
strict";function r(o){function i(e,t,n){this.chunk=e,this.encoding=t,this.callback=n,this.next=null}function
a(t,n){C=C||e("./_stream_duplex"),t=t||{ },this.objectMode=!t.objectMode,n instanceof
C&&(this.objectMode=this.objectMode||!t.writableObjectMode);var
r=t.highWaterMark,i=this.objectMode?16:16384;this.highWaterMark=r||0===r?r:i,this.highWaterMark===~this.high
WaterMark,this.needDrain=!1,this.ending=!1,this.ended=!1,this.finished=!1;var
a=t.decodeStrings===!1;this.decodeStrings=!a,this.defaultEncoding=t.defaultEncoding||"utf8",this.length=0,this.wri
ting=!1,this.corked=0,this.sync=!0,this.bufferProcessing=!1,this.onwrite=function(e){d(n,e)},this.writecb=null,this.
writelen=0,this.bufferedRequest=null,this.lastBufferedRequest=null,this.pendingcb=0,this.prefinished=!1,this.errorE
mitted=!1,this.bufferedRequestCount=0,this.corkedRequestsFree=new x(this)}function o(t){return
C=C||e("./_stream_duplex"),this instanceof o||this instanceof C?(this._writableState=new
a(t,this),this.writable=!0,t&&("function"===typeof

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t.write&&(this._write=t.write),"function"===typeof t.write&&(this._writev=t.writev),void E.call(this):new
o(t)}function s(e,t){var n=new Error("write after end");e.emit("error",n),A(t,n)}function l(e,t,n,r){var
i=!0,a=!1;return null===n?a=new TypeError("May not write null values to stream"):k.isBuffer(n)||"string"===typeof
n||void 0===n||t.objectMode||(a=new TypeError("Invalid non-string/buffer
chunk")),a&&(e.emit("error",a),A(r,a),i=!1),i}function u(e,t,n){return
e.objectMode||e.decodeStrings===!1||"string"!==typeof t||(t=T.from(t,n)),t}function
c(e,t,n,r,a){n=u(t,n,r),k.isBuffer(n)&&(r="buffer");var o=t.objectMode?1:n.length;t.length+=o;var
s=t.length<t.highWaterMark;if(s||(t.needDrain=!0),t.writing||t.corked){var
l=t.lastBufferedRequest;t.lastBufferedRequest=new
i(n,r,a),l?l.next=t.lastBufferedRequest:t.bufferedRequest=t.lastBufferedRequest,t.bufferedRequestCount+=1}else
p(e,t,!1,o,n,r,a);return s}function
p(e,t,n,r,i,a,o){t.writelen=r,t.writecb=o,t.writing=!0,t.sync=!0,n?e._writev(i,t.onwrite):e._write(i,a,t.onwrite),t.sync=!
1}function
h(e,t,n,r,i){--t.pendingcb,n?A(i,r):i(r),e._writableState.errorEmitted=!0,e.emit("error",r)}function
f(e){e.writing=!1,e.writecb=null,e.length-=e.writelen,e.writelen=0}function d(e,t){var
n=e._writableState,r=n.sync,i=n.writecb;if(f(n,t)h(e,n,r,t,i);else{var
a=v(n);a||n.corked||n.bufferProcessing||n.bufferedRequest||y(e,n),r?S(m,e,n,a,i):m(e,n,a,i)}function
m(e,t,n,r){n||g(e,t),t.pendingcb--,r(),w(e,t)}function
g(e,t){0===t.length&&t.needDrain&&(t.needDrain=!1,e.emit("drain"))}function y(e,t){t.bufferProcessing=!0;var
n=t.bufferedRequest;if(e._writev&&n&&n.next){var r=t.bufferedRequestCount,i=new
Array(r),a=t.corkedRequestsFree;a.entry=n;for(var
o=0;n;i[o]=n,n=n.next,o+=1;p(e,t,!0,t.length,i,"",a.finish),t.pendingcb++,t.lastBufferedRequest=null,a.next?(t.corked
RequestsFree=a.next,a.next=null):t.corkedRequestsFree=new x(t)}else{for(;n;){var
s=n.chunk,l=n.encoding,u=n.callback,c=t.objectMode?1:s.length;if(p(e,t,!1,c,s,l,u),n=n.next,t.writing)break}null===
n&&(t.lastBufferedRequest=null)}t.bufferedRequestCount=0,t.bufferedRequest=n,t.bufferProcessing=!1}function
v(e){return e.ending&&0===e.length&&null===e.bufferedRequest&&!e.finished&&!e.writing}function
b(e,t){t.prefinished||(t.prefinished=!0,e.emit("prefinish"))}function w(e,t){var n=v(t);return
n&&(0===t.pendingcb?(b(e,t),t.finished=!0,e.emit("finish")):b(e,t),n)}function
_(e,t,n){t.ending=!0,w(e,t),n&&(t.finished?A(n):e.once("finish",n)),t.ended=!0,e.writable=!1}function x(e){var
t=this;this.next=null,this.entry=null,this.finish=function(n){var r=t.entry;for(t.entry=null;r;){var
i=r.callback;e.pendingcb--
,i(n),r=r.next}e.corkedRequestsFree?e.corkedRequestsFree.next=t:e.corkedRequestsFree=t}}t.exports=o;var
A=e("process-nexttick-args"),S=!n.browser&&["v0.10","v0.9"].indexOf(n.version.slice(0,5))>-
1?setImmediate:A;o.WritableState=a;var j=e("core-util-is");j.inherits=e("inherits");var E,O={deprecate:e("util-
deprecate")};!function(){try{E=e("stream")}catch(t){}finally{E||(E=e("events")).EventEmitter}}();var
k=e("buffer").Buffer,T=e("buffer-shims");j.inherits(o,E);var C;a.prototype.getBuffer=function(){for(var
e=this.bufferedRequest,t=[];e;t.push(e),e=e.next;return
t},function(){try{Object.defineProperty(a.prototype,"buffer",{get:O.deprecate(function(){return
this.getBuffer()}),"_writableState.buffer is deprecated. Use _writableState.getBuffer instead.")}})catch(e){}}();var
C;o.prototype.pipe=function(){this.emit("error",new Error("Cannot pipe, not
readable"))},o.prototype.write=function(e,t,n){var i=this._writableState,a=!1;return"function"===typeof
t&&(n=t,t=null),k.isBuffer(e)?t=(t=i.defaultEncoding),"function"!==typeof
n&&(n=r),i.ended?s(this,n):l(this,i,e,n)&&(i.pendingcb++,a=c(this,i,e,t,n)),a},o.prototype.cork=function(){var
e=this._writableState;e.corked++,o.prototype.uncork=function(){var e=this._writableState;e.corked&&(e.corked--
,e.writing||e.corked||e.finished||e.bufferProcessing||!e.bufferedRequest||y(this,e))},o.prototype.setDefaultEncoding=f
unction(e){if("string"===typeof
e&&(e=e.toLowerCase()),!(["hex","utf8","utf-8","ascii","binary","base64","ucs2","ucs-2","utf16le","utf-
16le","raw"].indexOf((e+"").toLowerCase())>-1))throw new TypeError("Unknown encoding: "+e);

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return this._writableState.defaultEncoding=e,this},o.prototype._write=function(e,t,n){n(new Error("not
implemented"))},o.prototype._writev=null,o.prototype.end=function(e,t,n){var
r=this._writableState;"function"===typeof e?(n=e,e=null,t=null):"function"===typeof
t&&(n=t,t=null),null!==e&&void
0!==e&&this.write(e,t),r.corked&&(r.corked=1,this.uncork()),r.ending||r.finished||_(this,r,n)}).call(this,e("_process
")),{"./_stream_duplex":44,_process:42,buffer:5,"buffer-shims":4,"core-util-is":6,events:28,inherits:38,"process-
nexttick-args":41,"util-deprecate":57}],49:[function(e,t,n){"use strict";function
r(){this.head=null,this.tail=null,this.length=0}var i=(e("buffer")).Buffer,e("buffer-
shims"));t.exports=r,r.prototype.push=function(e){var
t={data:e,next:null};this.length>0?this.tail.next=t:this.head=t,this.tail=t,++this.length},r.prototype.unshift=function(
e){var
t={data:e,next:this.head};0===this.length&&(this.tail=t),this.head=t,++this.length},r.prototype.shift=function(){if(0
!==this.length){var e=this.head.data;return 1===this.length?this.head=this.tail=null:this.head=this.head.next,--
this.length,e}},r.prototype.clear=function(){this.head=this.tail=null,this.length=0},r.prototype.join=function(e){if(0
===this.length)return"";for(var t=this.head,n=""+t.data;t=t.next;n+=e+t.data;return
n},r.prototype.concat=function(e){if(0===this.length)return i.alloc(0);if(1===this.length)return
this.head.data;for(var t=i.allocUnsafe(e>>>0),n=this.head,r=0;n=n.data.length,n=n.next;return
t)},{"buffer:5,"buffer-
shims":4}],50:[function(e,t,n){t.exports=e("./lib/_stream_passthrough.js")},{"./lib/_stream_passthrough.js":45}],51:
[function(e,t,n){(function(r){var i=function(){try{return
e("stream")}catch(t){}});n=t.exports=e("./lib/_stream_readable.js"),n.Stream=i||n,n.Readable=n,n.Writable=e("./lib
/_stream_writable.js"),n.Duplex=e("./lib/_stream_duplex.js"),n.Transform=e("./lib/_stream_transform.js"),n.PassThr
ough=e("./lib/_stream_passthrough.js"),!r.browser&&"disable"===r.env.READABLE_STREAM&&i&&(t.exports
=i)).call(this,e("_process")),{"./lib/_stream_duplex.js":44,"./lib/_stream_passthrough.js":45,"./lib/_stream_readabl
e.js":46,"./lib/_stream_transform.js":47,"./lib/_stream_writable.js":48,_process:42}],52:[function(e,t,n){t.exports=e(
"./lib/_stream_transform.js")},{"./lib/_stream_transform.js":47}],53:[function(e,t,n){t.exports=e("./lib/_stream_writa
ble.js")},{"./lib/_stream_writable.js":48}],54:[function(e,t,n){t.exports=function(e){return e.replace(/[-
\\^$*+?.(){}|]/g,"\\$&")},{}],55:[function(e,t,n){function r(){i.call(this)}t.exports=r;var
i=e("events").EventEmitter,a=e("inherits");a(r,i),r.Readable=e("readable-
stream/readable.js"),r.Writable=e("readable-stream/writable.js"),r.Duplex=e("readable-
stream/duplex.js"),r.Transform=e("readable-stream/transform.js"),r.PassThrough=e("readable-
stream/passthrough.js"),r.Stream=r,r.prototype.pipe=function(e,t){function
n(t){e.writable&&!1===e.write(t)&&u.pause&&u.pause()}function
r(){u.readable&&u.resume&&u.resume()}function a(c){c!(c=!0,e.end())}function o(c){c!(c=!0,"function"===typeof
e.destroy&&e.destroy())}function s(e){if(1(),0===i.listenerCount(this,"error"))throw e}function
l(){u.removeListener("data",n),e.removeListener("drain",r),u.removeListener("end",a),u.removeListener("close",o),
u.removeListener("error",s),e.removeListener("error",s),u.removeListener("end",l),u.removeListener("close",l),e.re
moveListener("close",l)}var
u=this;u.on("data",n),u.on("drain",r),e._isStdio||t&&t.end===!1||(u.on("end",a),u.on("close",o));var c=!1;return
u.on("error",s),e.on("error",s),u.on("end",l),u.on("close",l),e.on("close",l),e.emit("pipe",u),e)},{"events:28,inherits:38
,"readable-stream/duplex.js":43,"readable-stream/passthrough.js":50,"readable-stream/readable.js":51,"readable-
stream/transform.js":52,"readable-stream/writable.js":53}],56:[function(e,t,n){function
r(e){if(e&&!1(e))throw new Error("Unknown encoding: "+e)}function i(e){return
e.toString(this.encoding)}function
a(e){this.charReceived=e.length%2,this.charLength=this.charReceived?2:0}function
o(e){this.charReceived=e.length%3,this.charLength=this.charReceived?3:0}var
s=e("buffer").Buffer,l=s.isEncoding||function(e){switch(e&&e.toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"binary":case"base64":case"ucs2":case"ucs-2":case"utf16le":case"utf-

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16le":case"raw":return!0;default:return!1}},u=n.StringDecoder=function(e){switch(this.encoding=(e||"utf8").toLowerCase().replace(/[-_]/,""),r(e),this.encoding){case"utf8":this.surrogateSize=3;break;case"ucs2":case"utf16le":this.surrogateSize=2,this.detectIncompleteChar=a;break;case"base64":this.surrogateSize=3,this.detectIncompleteChar=o;break;default:return void(this.write=i)}this.charBuffer=new s(6),this.charReceived=0,this.charLength=0};u.prototype.write=function(e){for(var t="";this.charLength;)var n=e.length>=this.charLength-this.charReceived?this.charLength-this.charReceived:e.length;if(e.copy(this.charBuffer,this.charReceived,0,n),this.charReceived+=n,this.charReceived<this.charLength)return"";e=e.slice(n,e.length),t=this.charBuffer.slice(0,this.charLength).toString(this.encoding);var r=t.charCodeAtAt(t.length-1);if(!(r>=55296&&r<=56319)){if(this.charReceived=this.charLength=0,0===e.length)return t;break}this.charLength+=this.surrogateSize,t=""}this.detectIncompleteChar(e);var i=e.length;this.charLength&&(e.copy(this.charBuffer,0,e.length-this.charReceived,i),i=this.charReceived),t+=e.toString(this.encoding,0,i);var i=t.length-1,r=t.charCodeAtAt(i);if(r>=55296&&r<=56319){var a=this.surrogateSize;return this.charLength+=a,this.charReceived+=a,this.charBuffer.copy(this.charBuffer,a,0,a),e.copy(this.charBuffer,0,0,a),t.substring(0,i)}return t},u.prototype.detectIncompleteChar=function(e){for(var t=e.length>=3?3:e.length;t>0;t--){var n=e.length-t;if(1==t&&n>>5==6){this.charLength=2;break}if(t<=2&&n>>4==14){this.charLength=3;break}if(t<=3&&n>>3==30){this.charLength=4;break}}this.charReceived=t},u.prototype.end=function(e){var t="";if(e&&e.length&&(t=this.write(e)),this.charReceived){var n=this.charReceived,r=this.charBuffer,i=this.encoding;t+=r.slice(0,n).toString(i)}return t}},{buffer:5}],57:[function(e,t,n){function(e){function n(e,t){function n(n){if(!i){if(r("throwDeprecation"))throw new Error(t);r("traceDeprecation"?console.trace(t):console.warn(t),i=10}return e.apply(this,arguments)}if(r("noDeprecation"))return e;var i=!1;return n}function r(t){try{if(!e.localStorage)return!1}catch(n){return!1}var r=e.localStorage[t];return null!=r&&"true"===String(r.toLowerCase())t.exports=n}.call(this,"undefined"!==typeof global?global:"undefined"!==typeof self?self:"undefined"!==typeof window?window:{}),{}},58:[function(e,t,n){function r(){for(var e={},t=0;t<arguments.length;t++){var n=arguments[t];for(var r in n)i.call(n,r)&&(e[r]=n[r])}return e}t.exports=r;var i=Object.prototype.hasOwnProperty,{}},{}],[1])(1)},function(e){if("object"===typeof exports&&"undefined"!==typeof module)module.exports=e;else if("function"===typeof define&&define.amd)define([],e);else{var t;"undefined"!==typeof window?window:"undefined"!==typeof global?global:"undefined"!==typeof self?self:this,t.SwaggerClient=e}}(function(){var t;return function n(e,t,r){function i(o,s){if(!t[o]){if(!e[o]){var l="function"===typeof require&&require;if(!s&&1)return l(o,!0);if(a)return a(o,!0);var u=new Error("Cannot find module "+o+""");throw u.code="MODULE_NOT_FOUND",u}var c=t[o]={exports:{}};e[o][0].call(c.exports,function(t){var n=e[o][1][t];return i(n?t:n)},c,c.exports,n,e,t,r)}return t[o].exports}for(var a="function"===typeof require&&require,o=0;o<r.length;o++)i(r[o]);return i}({1:[function(e,t,n){function r(e,t){return e.log("This is deprecated, use "new SwaggerClient" instead."),new a(e,t)};Array.prototype.indexOf||(Array.prototype.indexOf=function(e,t){for(var n=0,r=this.length;n<r;n++)if(this[n]===e)return n;return-1}),String.prototype.trim||(String.prototype.trim=function(){return this.replace(/^\s+|\s+$/g,"")}),String.prototype.endsWith||(String.prototype.endsWith=function(e){return this.indexOf(e,this.length-e.length)!=-1}),t.exports=a,a.ApiKeyAuthorization=r.ApiKeyAuthorization,a.PasswordAuthorization=r.PasswordAuthorization,a.CookieAuthorization=r.CookieAuthorization,a.SwaggerApi=o,a.SwaggerClient=o,a.SchemaMarkup=e("./lib/sche

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ma-markup"}),{"/lib/auth":2,"/lib/client":3,"/lib/helpers":4,"/lib/schema-markup":7}],2:[function(e,t,n){
"strict";var r=e("/helpers"),i=e("btoa"),a=e("cookiejar").CookieJar,o={each:e("lodash-compat/collection/each"),includes:e("lodash-compat/collection/includes"),isObject:e("lodash-compat/lang/isObject"),isArray:e("lodash-compat/lang/isArray")},s=t.exports.SwaggerAuthorizations=function(e){this.authz=e||{};s.prototype.add=function(e,t){if(o.isObject(e))for(var n in e)this.authz[n]=e[n];else"string"===typeof e&&(this.authz[e]=t);return t},s.prototype.remove=function(e){return delete this.authz[e]},s.prototype.apply=function(e,t){var n=!0,r=!t,i=[],a=e.clientAuthorizations||this.authz;return o.each(t,function(e,t){"string"===typeof t&&i.push(t),o.each(e,function(e,t){i.push(t)}),o.each(a,function(t,a){if(r||o.includes(i,a){var s=t.apply(e);n=n&&!s}),n};var l=t.exports.ApiKeyAuthorization=function(e,t,n){this.name=e,this.value=t,this.type=n};l.prototype.apply=function(e){if("query"===this.type){var t;if(e.url.indexOf("?")>0){t=e.url.substring(e.url.indexOf("?")+1);var n=t.split("&");if(n&&n.length>0)for(var r=0;r<n.length;r++){var i=n[r].split("=");if(i&&i.length>0&&i[0]===this.name)return!1}}return e.url.indexOf("?")>0?e.url=e.url+"&"+this.name+"="+this.value:e.url=e.url+"?"+"this.name+"="+this.value,!0}if("header"===this.type)return"undefined"===typeof e.headers[this.name]&&(e.headers[this.name]=this.value,!0);var u=t.exports.CookieAuthorization=function(e){this.cookie=e};u.prototype.apply=function(e){return e.cookieJar=e.cookieJar||new a,e.cookieJar.setCookie(this.cookie,!0);var c=t.exports.PasswordAuthorization=function(e,t){3===arguments.length&&(r.log("PasswordAuthorization: the 'name' argument has been removed, pass only username and password"),e=arguments[1],t=arguments[2]),this.username=e,this.password=t};c.prototype.apply=function(e){return"undefined"===typeof e.headers.Authorization&&(e.headers.Authorization="Basic "+i(this.username+":"+this.password)),!0},{"/helpers":4,btoa:13,cookiejar:18,"lodash-compat/collection/each":52,"lodash-compat/collection/includes":55,"lodash-compat/lang/isArray":140,"lodash-compat/lang/isObject":144}],3:[function(e,t,n){
"strict";var r={bind:e("lodash-compat/function/bind"),cloneDeep:e("lodash-compat/lang/cloneDeep"),find:e("lodash-compat/collection/find"),forEach:e("lodash-compat/collection/forEach"),indexOf:e("lodash-compat/array/indexOf"),isArray:e("lodash-compat/lang/isArray"),isObject:e("lodash-compat/lang/isObject"),isFunction:e("lodash-compat/lang/isFunction"),isPlainObject:e("lodash-compat/lang/isPlainObject"),isUndefined:e("lodash-compat/lang/isUndefined")},i=e("/auth"),a=e("/helpers"),o=e("/types/model"),s=e("/types/operation"),l=e("/types/operationGroup"),u=e("/resolver"),c=e("/http"),p=e("/spec-converter"),h=e("q"),f=["apis","authorizationScheme","authorizations","basePath","build","buildFrom1_1Spec","buildFrom1_2Spec","buildFromSpec","clientAuthorizations","convertInfo","debug","defaultErrorCallback","defaultSuccessCallback","enableCookies","fail","failure","finish","help","host","idFromOp","info","initialize","isBuilt","isValid","modelPropertyMacro","models","modelsArray","options","parameterMacro","parseUri","progress","resourceCount","sampleModels","selfReflect","setConsolidatedModels","spec","supportedSubmitMethods","swaggerRequestHeaders","tagFromLabel","title","url","useJQuery","jqueryAjaxCache"],d=["apis","asCurl","description","externalDocs","help","label","name","operation","operations","operationsArray","path","tag"],m=["delete","get","head","options","patch","post","put"],g=t.exports=function(e,t){return this.authorizations=null,this.authorizationScheme=null,this.basePath=null,this.debug=!1,this.enableCookies=!1,this.info=null,this.isBuilt=!1,this.isValid=!1,this.modelsArray=[],this.resourceCount=0,this.url=null,this.useJQuery=!1,this.jqueryAjaxCache=!1,this.swaggerObject={},this.deferredClient=void 0,this.clientAuthorizations=new i.SwaggerAuthorizations,"undefined"!==typeof e?this.initialize(e,t):this};g.prototype.initialize=function(e,t){if(this.models={},this.sampleModels={},"string"===typeof e?this.url=e:r.isObject(e)&&(t=e,this.url=t.url),this.url&&this.url.indexOf("http:")===

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1&&this.url.indexOf("https:")===-1&&"undefined"!==typeof
window&&window&&window.location&&(this.url=window.location.origin+this.url),t=t||{ },this.clientAuthorizations.add(t.authorizations),this.swaggerRequestHeaders=t.swaggerRequestHeaders||"application/json;charset=utf-8,*/*",this.defaultSuccessCallback=t.defaultSuccessCallback||null,this.defaultErrorCallback=t.defaultErrorCallback||null,this.modelPropertyMacro=t.modelPropertyMacro||null,this.connectionAgent=t.connectionAgent||null,this.parameterMacro=t.parameterMacro||null,this.usePromise=t.usePromise||null,this.timeout=t.timeout||null,this.fetchSpecTimeout="undefined"!==typeof
t.fetchSpecTimeout?t.fetchSpecTimeout:t.timeout||null,this.usePromise&&(this.deferredClient=h.defer()),"function"==typeof
t.success&&(this.success=t.success),t.usejQuery&&(this.usejQuery=t.usejQuery),t.jqueryAjaxCache&&(this.jqueryAjaxCache=t.jqueryAjaxCache),t.enableCookies&&(this.enableCookies=t.enableCookies),this.options=t||{ },this.options.timeout=this.timeout,this.options.fetchSpecTimeout=this.fetchSpecTimeout,this.supportedSubmitMethods=t.supportedSubmitMethods||[],this.failure=t.failure||function(e){throw e},this.progress=t.progress||function(){ },this.spec=r.cloneDeep(t.spec),t.scheme&&(this.scheme=t.scheme),this.usePromise||"function"==typeof t.success)return
this.ready=!0,this.build(),g.prototype.build=function(e){if(this.isBuilt)return this;var
t=this;this.spec?t.progress("fetching resource list; Please wait."):this.progress("fetching resource list: "+this.url+"; Please wait.");var
n={usejQuery:this.usejQuery,jqueryAjaxCache:this.jqueryAjaxCache,connectionAgent:this.connectionAgent,url:this.s.url,method:"get",headers:{ accept:this.swaggerRequestHeaders },on:{ error:function(e){ return"http"!==t.url.substring(0,4)?t.fail("Please specify the protocol for
"+t.url):!e.errObj||"ECONNABORTED"!==e.errObj.code&&e.errObj.message.indexOf("timeout")===-1?0===e.status?t.fail("Can't read from server. It may not have the appropriate access-control-origin settings."):404===e.status?t.fail("Can't read swagger JSON
from "+t.url):t.fail(e.status+" : "+e.statusText+" "+t.url):t.fail("Request timed out after
"+t.fetchSpecTimeout+"ms")},response:function(e){ var n=e.obj;if(!n)return t.fail("failed to parse JSON/YAML response");if(t.swaggerVersion=n.swaggerVersion,t.swaggerObject=n,n.swagger&&2===parseInt(n.swagger))t.swaggerVersion=n.swagger,(new u).resolve(n,t.url,t.buildFromSpec,t),t.isValid=!0;else { var r=new
p;t.oldSwaggerObject=t.swaggerObject,r.setDocumentationLocation(t.url),r.convert(n,t.clientAuthorizations,t.options,function(e){ t.swaggerObject=e,(new
u).resolve(e,t.url,t.buildFromSpec,t),t.isValid=!0)}} };if(this.fetchSpecTimeout&&(n.timeout=this.fetchSpecTimeout),this.spec)t.swaggerObject=this.spec,setTimeout(function(){ (new
u).resolve(t.spec,t.url,t.buildFromSpec,t),10);else {if(this.clientAuthorizations.apply(n),e)return n;(new
c).execute(n,this.options)} return
this.usePromise?t.deferredClient.promise:this},g.prototype.buildFromSpec=function(e){if(this.isBuilt)return
this;this.apis={ },this.apisArray=[],this.basePath=e.basePath||"",this.consumes=e.consumes,this.host=e.host||"",this.info=e.info||{ },this.produces=e.produces,this.schemes=e.schemes||[],this.securityDefinitions=r.cloneDeep(e.securityDefinitions),this.security=e.security,this.title=e.title||"";var
t,n,i,u,c={ },p=this;if(e.externalDocs&&(this.externalDocs=e.externalDocs),this.authSchemes=this.securityDefinitions,this.securityDefinitions)for(t in this.securityDefinitions){ var
h=this.securityDefinitions[t];h.vendorExtensions={ };for(var g in h)if(a.extractExtensions(g,h),"scopes"===g){ var
y=h[g];if("object"===typeof y){ y.vendorExtensions={ };for(var v in
y)a.extractExtensions(v,y)} }if(Array.isArray(e.tags))for(c={ },n=0;n<e.tags.length;n++){ var
b=r.cloneDeep(e.tags[n]);c[b.name]=b;for(u in b){if("externalDocs"===u&&"object"===typeof b[u])for(var w in
b[u])a.extractExtensions(w,b[u]);a.extractExtensions(u,b)} }if("string"===typeof
this.url){if(i=this.parseUri(this.url),"undefined"===typeof this.scheme&&"undefined"===typeof
this.schemes||0===this.schemes.length)"undefined"!==typeof
window?this.scheme=window.location.protocol.replace(":", ""):this.scheme=i.scheme||"http";else

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if("undefined"===typeof this.scheme)if("undefined"!==typeof window){ var
_ =window.location.protocol.replace(":", "");"https"===_&&this.schemes.indexOf(_)===-1?(a.log("Cannot call a
http server from https inside a browser!"),this.scheme="http"):this.schemes.indexOf(_)!==
-1?this.scheme=_:this.schemes.indexOf("https")!==-1?this.scheme="https":this.scheme="http" }else
this.scheme=this.schemes[0]|i.scheme;"undefined"!==typeof
this.host&&"!"===this.host||(this.host=i.host,i.port&&(this.host=this.host+": "+i.port)))}else"undefined"===typeof
this.schemes||0===this.schemes.length?this.scheme="http":"undefined"===typeof
this.scheme&&(this.scheme=this.schemes[0]);this.definitions=e.definitions;for(t in this.definitions){ var x=new
o(t,this.definitions[t],this.models,this.modelPropertyMacro);x&&(this.models[t]=x)}p.apis.help=r.bind(p.help,p),r.f
orEach(e.paths,function(e,t){r.isPlainObject(e)&&r.forEach(m,function(n){ var
i=e[n];if(!r.isUndefined(i)){if(!r.isPlainObject(i))return void a.log("The '"+n+"' operation for '"+t+"' path is not an
Operation Object");var o=i.tags;!r.isUndefined(o)&&r.isArray(o)&&0!==o.length||(o=i.tags=["default"]);var
h=p.idFromOp(t,n,i),m=new
s(p,i.scheme,h,n,t,i,p.definitions,p.models,p.clientAuthorizations);m.vendorExtensions={ };for(u in
i)a.extractExtensions(u,m,i[u]);if(m.externalDocs=i.externalDocs,m.externalDocs){m.externalDocs=r.cloneDeep(m.
externalDocs),m.externalDocs.vendorExtensions={ };for(u in
m.externalDocs)a.extractExtensions(u,m.externalDocs)}r.forEach(o,function(e){ var t=r.indexOf(f,e)>-
1?"_" +e:e,n=r.indexOf(d,e)>-1?"_" +e:e,i=p[t];if(t!==e&&a.log("The '"+e+"' tag conflicts with a SwaggerClient
function/property name. Use 'client.'+t+"' or 'client.apis.'+e+"' instead of 'client.'+e+'."),n!===e&&a.log("The
 '"+e+"' tag conflicts with a SwaggerClient operation function/property name. Use 'client.apis.'+n+"'
instead of 'client.apis.'+e+'."),r.indexOf(d,h)>-1&&(a.log("The '"+h+"' operationId conflicts with a SwaggerClient
operation function/property name. Use 'client.apis.'+n+"._"+h+"' instead of
'client.apis.'+n+"._"+h+"."),h="_"+h,m.nickname=h),r.isUndefined(i)){i=p[t]=p.apis[n]={ },i.operations={ },i.label=n
,i.apis={ };var
o=c[e];r.isUndefined(o)||i.description=o.description,i.externalDocs=o.externalDocs,i.vendorExtensions=o.vendorEx
tensions),p[t].help=r.bind(p.help,i),p.apisArray.push(new
l(e,i.description,i.externalDocs,m))}h=p.makeUniqueOperationId(h,p.apis[n]),r.isFunction(i.help)||i.help=r.bind(p.h
elp,i),p.apis[n][h]=i[h]=r.bind(m.execute,m),p.apis[n][h].help=i[h].help=r.bind(m.help,m),p.apis[n][h].asCurl=i[h].
asCurl=r.bind(m.asCurl,m),i.apis[h]=i.operations[h]=m;var s=r.find(p.apisArray,function(t){return
t.tag===e});s&&s.operationsArray.push(m)}}));var A=[];return r.forEach(Object.keys(c),function(e){ var t;for(t
in p.apisArray){ var
n=p.apisArray[t];n&&e===n.name&&(A.push(n),p.apisArray[t]=null)}},r.forEach(p.apisArray,function(e){e&&A
.push(e)}),p.apisArray=A,r.forEach(e.definitions,function(e,t){ e.id=t.toLowerCase(),e.name=t,p.modelsArray.push(
e)}),this.isBuilt=!0,this.usePromise?(this.isValid=!0,this.isBuilt=!0,this.deferredClient.resolve(this),this.deferredCli
ent.promise):(this.success&&this.success(),this),g.prototype.makeUniqueOperationId=function(e,t){for(var
n=0,i=e;){ var a=!1;if(r.forEach(t.operations,function(e){ e.nickname===i&&(a=!0)}),!a)return
i;i=e+"_" +n,n++}return e},g.prototype.parseUri=function(e){ var
t=/^(((([\^:\#?]+)?(?:\/\?)(?:([\^:@\#?]+)?(?:([\^:@\#?]+)?@)?(?:([\^:\#?]\[\]|\\[[^\]]@#?)+))?:([0-
9+])?)?)?(\?([\^:\#?]+\/+)*)([\^?]*))?(\/([\#?]+)?)(#.*)?/;n=t.exec(e);return{ scheme:n[4]?n[4].replace(":", ""):
void 0,host:n[11],port:n[12],path:n[15]}},g.prototype.help=function(e){ var t="";return this instanceof
g?r.forEach(this.apis,function(e,n){r.isPlainObject(e)&&(t+="operations for the '"+n+"'
tag\n",r.forEach(e.operations,function(e,n){ t+="
* '"+n+": "+e.summary+"\n" })):this instanceof l|r.isPlainObject(this)&&(t+="operations for the '"+this.label+"'
tag\n",r.forEach(this.apis,function(e,n){ t+="
* '"+n+":
"+e.summary+"\n" })),e?t:(a.log(t),t),g.prototype.tagFromLabel=function(e){return
e},g.prototype.idFromOp=function(e,t,n){ n&&n.operationId||(n=n||{ },n.operationId=t+"_" +e);var
r=n.operationId.replace(/[\s!@#%&*()_+=+[\]{};:<>|.\?,"'"/g,"_")||e.substring(1)+"_" +t;return
r=r.replace(/((\{2,})/g,"_"),r=r.replace(/^(\/)*$/g,""),r=r.replace(/([\_])*$/g,""),g.prototype.setHost=function(e){this.

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host=e,this.apis&&r.forEach(this.apis,function(t){t.operations&&r.forEach(t.operations,function(t){t.host=e}})),g.
prototype.setBasePath=function(e){this.basePath=e,this.apis&&r.forEach(this.apis,function(t){t.operations&&r.forE
ach(t.operations,function(t){t.basePath=e}})),g.prototype.setSchemes=function(e){this.schemes=e,e&&e.length>0
&&this.apis&&r.forEach(this.apis,function(t){t.operations&&r.forEach(t.operations,function(t){t.scheme=e[0]}})}
,g.prototype.fail=function(e){return
this.usePromise?(this.deferredClient.reject(e),this.deferredClient.promise):void(this.failure?this.failure(e):this.failure
(e))},{"/auth":2,"/helpers":4,"/http":5,"/resolver":6,"/spec-
converter":8,"/types/model":9,"/types/operation":10,"/types/operationGroup":11,"lodash-
compat/array/indexOf":49,"lodash-compat/collection/find":53,"lodash-compat/collection/forEach":54,"lodash-
compat/function/bind":58,"lodash-compat/lang/cloneDeep":138,"lodash-compat/lang/isArray":140,"lodash-
compat/lang/isFunction":142,"lodash-compat/lang/isObject":144,"lodash-compat/lang/isPlainObject":145,"lodash-
compat/lang/isUndefined":148,q:157}],4:[function(e,t,n){(function(n){"use strict";var r={isPlainObject:e("lodash-
compat/lang/isPlainObject"),indexOf:e("lodash-compat/array/indexOf");t.exports.__bind=function(e,t){return
function(){return e.apply(t,arguments)}};var
i=t.exports.log=function(){console&&"test"!==n.env.NODE_ENV&&console.log(Array.prototype.slice.call(argum
ents)[0]);t.exports.fail=function(e){i(e)},t.exports.optionHtml=function(e,t){return'<tr><td
class="optionName">'+e+'</td><td>'+t+'</td></tr>'};var a=t.exports.resolveSchema=function(e){return
r.isPlainObject(e.schema)&&(e=a(e.schema)),e};t.exports.simpleRef=function(e){return"undefined"===typeof
e?null:0===e.indexOf("#/definitions/")?e.substring("#/definitions/" .length):e},t.exports.extractExtensions=function(
e,t,n){e&&t&&"string"===typeof e&&0===e.indexOf("x-
")&&(t.vendorExtensions=t.vendorExtensions||[],n?t.vendorExtensions[e]=n.t.vendorExtensions[e]=t[e]}}).call(thi
s,e("_process"))},{_process:12,"lodash-compat/array/indexOf":49,"lodash-
compat/lang/isPlainObject":145}],5:[function(t,n,r){(function(r){"use strict";var
i=t("/helpers"),a=t("superagent"),o=t("js-yaml"),s={isObject:t("lodash-compat/lang/isObject"),keys:t("lodash-
compat/object/keys")},l=function(){this.type="jQueryHttpClient"},u=function(){this.type="SuperagentHttpClient"}
,c=n.exports=function(){c.prototype.execute=function(t,n){var
r;r=n&&n.client?n.client:new u(n),r.opts=n||{};var i=!1;if("undefined"!==typeof window&&"undefined"!==typeof
window.jQuery&&(i=!0),"options"===t.method.toLowerCase()&&"SuperagentHttpClient"===r.type&&(e("forcing
jQuery as OPTIONS are not supported by
SuperAgent"),t.usejQuery=!0),this.isInternetExplorer()&&(t.usejQuery===!1||!i))throw new Error("Unsupported
configuration! JQuery is required but not
available");(t&&t.usejQuery===!0||this.isInternetExplorer()&&i)&&(r=new l(n));var
a=t.on.response,o=t.on.error,c=function(e){return
n&&n.requestInterceptor&&(e=n.requestInterceptor.apply(e)),e},p=function(e){return
n&&n.responseInterceptor&&(e=n.responseInterceptor.apply(e)),a(e)},h=function(e){n&&n.responseInterceptor&&
(e=n.responseInterceptor.apply(e)),o(e)};return
t.on.error=function(e){h(e)},t.on.response=function(e){p(e)},s.isObject(t)&&s.isObject(t.body)&&t.body.type&&"f
ormData"===t.body.type&&n.usejQuery&&(t.contentType=!1,t.processData=!1,delete
t.headers["Content-
Type"]),t=c(t)||t,t.beforeSend?t.beforeSend(function(e){r.execute(e||t)}):r.execute(t),t.deferred?t.deferred.promise:t},
c.prototype.isInternetExplorer=function(){var e=!1;if("undefined"!==typeof navigator&&navigator.userAgent){var
t=navigator.userAgent.toLowerCase();if(t.indexOf("msie")!==-1){var
n=parseInt(t.split("msie")[1]);n<=8&&(e=!0)}}return e},l.prototype.execute=function(e){var
t=this.jQuery||"undefined"!==typeof window&&window.jQuery,n=e.on,r=e;if("undefined"===typeof t||t===!1)throw
new Error("Unsupported configuration! JQuery is required but not available");return
e.type=e.method,e.cache=e.jqueryAjaxCache,e.data=e.body,delete e.jqueryAjaxCache,delete e.usejQuery,delete
e.body,e.complete=function(e){for(var t={},a=e.getAllResponseHeaders().split("\n"),s=0;s<a.length;s++){var
l=a[s].trim();if(0!==l.length){var u=l.indexOf(":");if(u!==-1){var

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c=l.substring(0,u).trim(),p=l.substring(u+1).trim();t[c]=p} else t[l]=null} } var
h={url:r.url,method:r.method,status:e.status,statusText:e.statusText,data:e.responseText,headers:t};try { var
f=e.responseJSON||o.safeLoad(e.responseText);h.obj="string"===typeof f?{ }:f} catch(d){i.log("unable to parse
JSON/YAML
content")} if(h.obj=h.obj||null,e.status>=200&&e.status<300)n.response(h);else {if(!(0===e.status||e.status>=400&&
e.status<599))return n.response(h);n.error(h)}},t.support.cors=!0,t.ajax(e)},u.prototype.execute=function(e){var
t=e.connectionAgent,n=e.method.toLowerCase(),l=e.timeout;"delete"===n&&(n="del");var
u=e.headers||{ },c=a[n](e.url);t&&c.agent(t),l&&c.timeout(l),e.enableCookies&&c.withCredentials();var
p=e.headers.Accept;if(this.binaryRequest(p)&&c.on("request",function(){this.xhr&&(this.xhr.responseType="blob"
)}),e.body)if(s.isObject(e.body)){var h=e.headers["Content-Type"]||"";if(0===h.indexOf("multipart/form-
data"))if(delete u["Content-Type"],"[object FormData]"==={ }.toString.apply(e.body))c.send(e.body);else { var
f,d,m;for(f in e.body)if(d=e.body[f],Array.isArray(d))for(m
in d)c.field(f,m);else c.field(f,d)} else s.isObject(e.body)&&(e.body=JSON.stringify(e.body),c.send(e.body))} else
c.send(e.body);var g;for(g in u)c.set(g,u[g]);"function"===typeof
c.buffer&&c.buffer(),c.end(function(t,n){n=n||{status:0,headers:{error:"no response from server"} });var
a,l={url:e.url,method:e.method,headers:n.headers};if(!t&&n.error&&(t=n.error),t&&e.on&&e.on.error){if(l.errObj
=t,l.status=n?n.status:500,l.statusText=n?n.text:t.message,n.headers&&n.headers["content-
type"]&&n.headers["content-
type"].indexOf("application/json")>=0)try {l.obj=JSON.parse(l.statusText)} catch(u){l.obj=null} a=e.on.error} else
if(n&&e.on&&e.on.response){var c;if(n.body&&s.keys(n.body).length>0)c=n.body;else
try {c=o.safeLoad(n.text),c="string"===typeof c?null:c} catch(u){i.log("cannot parse JSON/YAML
content")} "function"===typeof r&&r.isBuffer(c)?l.data=c:l.obj="object"===typeof
c?c:null,l.status=n.status,l.statusText=n.text,a=e.on.response} n.xhr&&n.xhr.response?l.data=n.xhr.response:l.data||(l
.data=l.statusText),a&&a(l)}},u.prototype.binaryRequest=function(e){return!!e&&(/^image/i.test(e)||/^application/
pdf/.test(e))}.call(this,t("buffer").Buffer),{"/helpers":4,buffer:14,"js-yaml":19,"lodash-
compat/lang/isObject":144,"lodash-compat/object/keys":149,superagent:158}},6:[function(e,t,n){ "use
strict";function r(e){var t={ },n=/[a-z]+:\//i.exec(e);n&&(t.proto=n[0].slice(0,-
3),e=e.slice(t.proto.length+1),"/"===e.slice(0,2)&&(t.domain=e.slice(2).split("/")[0],e=e.slice(2+t.domain.length)
);var r=e.split("#");return r[0].length&&(t.path=r[0]),r.length>1&&(t.fragment=r.slice(1).join("#")),t} function
i(e){var t=e.path;return void 0===t&&(t=""),void 0!==e.fragment&&(t+="#+e.fragment),void
0!==e.domain&&(t+="#+e.domain+"+t,void
0!==e.proto&&(t=e.proto+"."+t),t} function a(e,t){var n=r(t);if(void 0!==n.domain)return t;var a=r(e);if(void
0===n.path)a.fragment=n.fragment;else if("/"===n.path.slice(0,1))a.path=n.path,a.fragment=n.fragment;else { var
o=void
0===a.path?[]:a.path.split("/"),s=n.path.split("/");for(o.length&&o.pop(); ".."===s[0]|| "."===s[0];).."===s[0]&&o.p
op(),s.shift();a.path=o.concat(s).join("/"),a.fragment=n.fragment} return i(a)} var o=e("./http"),s={isObject:e("lodash-
compat/lang/isObject"),cloneDeep:e("lodash-compat/lang/cloneDeep"),isArray:e("lodash-
compat/lang/isArray"),isString:e("lodash-
compat/lang/isString")},l=t.exports=function(){this.failedUrls=[],this.resolverCache={ },this.pendingUrls={ };l.prot
otype.processAllOf=function(e,t,n,r,i,a){var o,s,l;n["x-resolved-from"]=["#/definitions/"+t];var
u=n.allOf;for(u.sort(function(e,t){return e.$ref&&t.$ref?0:e.$ref?-
1:1}),o=0;o<u.length;o++)l=u[o],s="/definitions/"+t+"/allOf",this.resolveInline(e,a,l,r,i,s),l.prototype.resolve=funct
ion(e,t,n,r){this.spec=e;var i,a,l=t,u=n,c=r,p={ };"function"===typeof t&&(l=null,u=t,c=n);var
h,f=l;this.scope=c||this,this.iteration=this.iteration||0,this.scope.options&&this.scope.options.requestInterceptor&&(
p.requestInterceptor=this.scope.options.requestInterceptor),this.scope.options&&this.scope.options.responseIntercep
tor&&(p.responseInterceptor=this.scope.options.responseInterceptor);var
d,m,g,y,v,b,w,_=0,x={ },A={ },S=[];e.definitions=e.definitions||{ };for(d in e.definitions){ var
j=e.definitions[d];if(j.$ref)this.resolveInline(l,e,j,S,A,j);else { for(y in

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j.properties)g=j.properties[y],s.isArray(g.allOf)?this.processAllOf(l,d,g,S,A,e):this.resolveTo(l,g,S,"/definitions");j.a
llOf&&this.processAllOf(l,d,j,S,A,e)}e.parameters=e.parameters||{};for(d in
e.parameters){if(v=e.parameters[d],"body"===v["in"]&&v.schema)if(s.isArray(v.schema.allOf)){h="inline_model"
;var E=h;for(b=!1,w=0;!b){if("undefined"===typeof
e.definitions[E]){b=!0;break}E=h+"_"+w,w++}e.definitions[E]={allOf:v.schema.allOf},delete
v.schema.allOf,v.schema.$ref="#/definitions/"+E,this.processAllOf(l,E,e.definitions[E],S,A,e)}else
this.resolveTo(l,v.schema,S,i);v.$ref&&this.resolveInline(l,e,v,S,A,v.$ref)}for(d in e.paths){var
O,k,T;if(m=e.paths[d],"object"===typeof
m){for(O in m)if("$ref"===O)i="/paths"+d,this.resolveInline(l,e,m,S,A,i);else{k=m[O];var
C=m.parameters||[],I=k.parameters||[];for(a in
C)v=C[a],I.unshift(v);"parameters"!==O&&s.isObject(k)&&(k.parameters=k.parameters||I);for(a in
D){if(v=I[a],i="/paths"+d+"/"+O+"/parameters","body"===v["in"]&&v.schema)if(s.isArray(v.schema.allOf)){for(h=
"inline_model",d=h,b=!1,w=0;!b){if("undefined"===typeof
e.definitions[d]){b=!0;break}d=h+"_"+w,w++}e.definitions[d]={allOf:v.schema.allOf},delete
v.schema.allOf,v.schema.$ref="#/definitions/"+d,this.processAllOf(l,d,e.definitions[d],S,A,e)}else
this.resolveTo(l,v.schema,S,i);v.$ref&&this.resolveInline(l,e,v,S,A,v.$ref)}for(T in k.responses){var
D=k.responses[T];if(i="/paths"+d+"/"+O+"/responses/"+T,s.isObject(D)&&(D.$ref&&this.resolveInline(l,e,D,S,A,i
),D.schema))){var
L=D;if(s.isArray(L.schema.allOf)){for(h="inline_model",d=h,b=!1,w=0;!b){if("undefined"===typeof
e.definitions[d]){b=!0;break}d=h+"_"+w,w++}e.definitions[d]={allOf:L.schema.allOf},delete
L.schema.allOf,delete
L.schema.type,L.schema.$ref="#/definitions/"+d,this.processAllOf(l,d,e.definitions[d],S,A,e)}else"array"===L.sche
ma.type?L.schema.items&&L.schema.items.$ref&&this.resolveInline(l,e,L.schema.items,S,A,i):this.resolveTo(l,D.s
chema,S,i)}}m.parameters=[]}}var M,R=0,U=[],P=S;
for(a=0;a<P.length;a++){var q=P[a];if(l===q.root){if("ref"===q.resolveAs){var
B,N=((q.root||"")+ "/" +q.key).split("/"),z=[],$="";if(q.key.indexOf("../")>=0){for(var
F=0;F<N.length;F++).."===N[F]?z=z.slice(0,z.length-
1):z.push(N[F]);for(B=0;B<z.length;B++)B>0&&($+="/",$+=z[B];q.root=$,U.push(q)}else
if(M=q.key.split("#"),2===M.length){0!==M[0].indexOf("http:")&&0!==M[0].indexOf("https:")|(q.root=M[0]),i=
M[1].split("/");var V,H=e;for(B=0;B<i.length;B++){var Y=i[B];if("!"===Y){if(H=H[Y],"undefined"===typeof
H){V=null;break}V=H}}null===V&&U.push(q)}else
if("inline"===q.resolveAs){if(q.key&&q.key.indexOf("#")===-
1&&"!"===q.key.charAt(0)){for(M=q.root.split("/"),i="",a=0;a<M.length-
1;a++)i+=M[a]+"/";i+=q.key,q.root=i,q.location=""}}U.push(q)}else
U.push(q)}R=U.length;for(var
J={},W=0;W<U.length;W++)!function(e,t,n,r,i){if(e.root&&e.root!==l)if(n.failedUrls.indexOf(e.root)===-1){var
a={useJQuery:!1,url:e.root,method:"get",headers:{accept:n.scope.swaggerRequestHeaders||"application/json"},on:{
error:function(i){_+=1,console.log("failed url: "+a.url),n.failedUrls.push(a.url),r&&delete
r[e.root],A[e.key]={root:e.root,location:e.location},_===R&&n.finish(t,f,S,x,A,u)},response:function(i){var
a=i.obj;r&&delete
r[e.root],n.resolverCache&&(n.resolverCache[e.root]=a),n.resolveItem(a,e.root,S,x,A,e),_+=1,_===R&&n.finish(t,f
,S,x,A,u)}};c&&c.fetchSpecTimeout&&(a.timeout=c.fetchSpecTimeout),c&&c.clientAuthorizations&&c.clientAu
thorizations.apply(a,function h(){setTimeout(function(){if(r[a.url])h();else{var
e=n.resolverCache[a.url];s.isObject(e)?a.on.response({obj:e}):(r[a.url]=!0,(new o).execute(a,p))},0)}else
_+=1,A[e.key]={root:e.root,location:e.location},_===R&&n.finish(t,f,S,x,A,u);else
n.resolveItem(t,f,S,x,A,e),_+=1,_===R&&n.finish(t,l,S,x,A,u,!0)}(U[W],e,this,J,W);0===Object.keys(U).length&&
this.finish(e,f,S,x,A,u),l.prototype.resolveItem=function(e,t,n,r,i,a){var
o=a.location,s=e,l=o.split("/");if("!"===o)for(var u=0;u<l.length;u++){var c=l[u];if(c.indexOf("~1")!==-

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l&&(c=l[u].replace(/~/g,"~").replace(/~/g,"/"),"/"!==c.charAt(0)&&(c="/" +c),"undefined"===typeof
s||null===s)break;if("===c&&u===l.length-1&&l.length>1){s=null;break}c.length>0&&(s=s[c])}var
p=a.key;l=a.key.split("/");var h=l[l.length-
1];h.indexOf("#")>=0&&(h=h.split("#")[1]),null!==s&&"undefined"!==typeof
s?r[p]={ name:h,obj:s,key:a.key,root:a.root}:i[p]={ root:a.root,location:a.location },l.prototype.finish=function(e,t,n,
r,i,a,o){ var s,l;for(s in n){ var
u=n[s],c=u.key,p=r[c];if(p)if(e.definitions=e.definitions||{ },"ref"===u.resolveAs){ if(o!==!0)for(c in
p.obj)l=this.retainRoot(c,p.obj[c],u.root),p.obj[c]=l;e.definitions[p.name]=p.obj,u.obj.$ref="#/definitions/"+p.name }
else if("inline"===u.resolveAs){ var
h=u.obj;h["x-resolved-from"]=u.key,delete h.$ref;for(c in
p.obj)l=p.obj[c],o!==!0&&(l=this.retainRoot(c,p.obj[c],u.root)),h[c]=l } var
f=this.countUnresolvedRefs(e);0===f||this.iteration>5?(this.resolveAllOf(e.definitions),this.resolverCache=null,a.ca
ll(this.scope,e,i):(this.iteration+=1,this.resolve(e,t,a,this.scope)),l.prototype.countUnresolvedRefs=function(e){ var
t,n=this.getRefs(e),r=[],i=[];for(t in
n)0===t.indexOf("#"?r.push(t.substring(1)):i.push(t);for(t=0;t<r.length;t++){ for(var
a=r[t],o=a.split("/"),s=e,l=0;l<o.length;l++){ var u=o[l];if("!"===u&&(s=s[u],"undefined"===typeof
s)){ i.push(a);break } } return i.length },l.prototype.getRefs=function(e,t){ t=t||e;var n={ };for(var r in
t)if(t.hasOwnProperty(r)){ var i=t[r];if("$ref"===r&&"string"===typeof i)n[i]=null;else if(s.isObject(i)){ var
a=this.getRefs(i);for(var o in a)n[o]=null } return n },l.prototype.retainRoot=function(e,t,n){ if(s.isObject(t))for(var r
in t){ var i=t[r];"$ref"===r&&"string"===typeof i?t[r]=a(n,i):s.isObject(i)&&this.retainRoot(r,i,n) } else
s.isString(t)&&"$ref"===e&&(t=a(n,t));return t },l.prototype.resolveInline=function(e,t,n,r,i,a){ var
o,s,l,u,c=n.$ref,p=n.$ref,h=!1;if(e=e||"").p){ if(0===p.indexOf("../")){ for(s=p.split("../"),l=e.split("/"),p="",o=0;o<s.le
ngth;o++)""===s[o]?l=l.slice(0,l.length-1):p+=s[o];for(e="",o=0;o<l.length-
1;o++)o>0&&(e+=""/),e+=l[o];h=!0;if(p.indexOf("#")>=0)if(0===p.indexOf("/"))u=p.split("#"),s=e.split("/"),l=s[l
].split("/"),e=s[o]+"/"+l[0]+u[0],a=u[1];else{ if(u=p.split("#"),"!===u[0]){ if(l=e.split("/"),l=l.slice(0,l.length-
1),!h){ e="";for(var
f=0;f<l.length;f++)f>0&&(e+=""/),e+=l[f]}e+="/"+p.split("#")[0] a=u[1 ]}if(0===p.indexOf("http:")||0===p.indexO
f("https:"))p.indexOf("#")>=0?(e=p.split("#")[0],a=p.split("#")[1]):(e=p,a=""),r.push({ obj:n,resolveAs:"inline",root:
e,key:c,location:a });}else
if(0===p.indexOf("#"))a=p.split("#")[1],r.push({ obj:n,resolveAs:"inline",root:e,key:c,location:a });}else
if(0===p.indexOf("/")&&p.indexOf("#")===-1){ a=p;var
d=e.match(/^https?:\:\/\/([\^?#]+)(?:[\/?#]$/i);d&&(e=d[0]+p.substring(1),a=""),r.push({ obj:n,resolveAs:"inline",ro
ot:e,key:c,location:a }) } else
r.push({ obj:n,resolveAs:"inline",root:e,key:c,location:a }) } else "array"===n.type&&this.resolveTo(e,n.items,r,a) },l.p
rototype.resolveTo=function(e,t,n,r){ var i,a,o=t.$ref,l=e;if("undefined"!==typeof
o&&null!==o){ if(o.indexOf("#")>=0){ var u=o.split("#");if(u[0]&&0===o.indexOf("/"));else
if(!u[0]||0!==u[0].indexOf("http:")&&0!==u[0].indexOf("https:")){ if(u[0]&&u[0].length>0){ for(i=e.split("/"),l="",a
=o;a<i.length-1;a++)l+=i[a]+"/";l+=u[0] } } else l=u[0],o=u[1];r=u[1] } else
if(0===o.indexOf("http:")||0===o.indexOf("https:"))l=o,r="";else{ for(i=e.split("/"),l="",a=0;a<i.length-
1;a++)l+=i[a]+"/";l+=o,r=""} n.push({ obj:t,resolveAs:"ref",root:l,key:o,location:r }) } else if("array"===t.type){ var
c=t.items;this.resolveTo(e,c,n,r) } else if(t&&(t.properties||t.additionalProperties)){ var
p=this.uniqueName("inline_model");t.title&&(p=this.uniqueName(t.title)),delete
t.title,this.spec.definitions[p]=s.cloneDeep(t),t.$ref="#/definitions/"+p,delete t.type,delete
t.properties } },l.prototype.uniqueName=function(e){ for(var t=e,n=0;;){ if(!s.isObject(this.spec.definitions[t]))return
t;t=e+"_"+n,n++ } },l.prototype.resolveAllOf=function(e,t,n){ n=n||0,t=t||e;var r;for(var i in
t)if(t.hasOwnProperty(i)){ var a=t[i];if(null===a)throw new TypeError("Swagger 2.0 does not support null types
("+t+""). See https://github.com/swagger-api/swagger-spec/issues/229.");if("object"===typeof
a&&this.resolveAllOf(e,a,n+1),a&&"undefined"!==typeof a.allOf){ var o=a.allOf;if(s.isArray(o)){ var

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l=s.cloneDeep(a);delete l.allOf,l["x-composed"]=!0,"undefined"!typeof a["x-resolved-from"]&&(l["x-resolved-
from"]=a["x-resolved-from"]);for(var u=0;u<o.length;u++){var c=o[u],p="self";"undefined"!typeof c["x-resolved-
from"]&&(p=c["x-resolved-from"][0]);for(var h in c)if(l.hasOwnProperty(h))if("properties"===h){var f=c[h];for(r
in f){l.properties[r]=s.cloneDeep(f[r]);var d=f[r]["x-resolved-from"];"undefined"!typeof
d&&"self"!==d||(d=p),l.properties[r]["x-resolved-from"]=d }else if("required"===h){for(var
m=l.required.concat(c[h]),g=0;g<m.length;++g)for(var y=g+1;y<m.length;++y)m[g]===m[y]&&m.splice(y-
,1);l.required=m}else"x-resolved-from"===h&&l["x-resolved-from"].push(p);else
if(l[h]=s.cloneDeep(c[h]),"properties"===h)for(r in l[h])l[h][r]["x-resolved-
from"]=p,t[i]=1 } } },{"/http":5,"lodash-compat/lang/cloneDeep":138,"lodash-compat/lang/isArray":140,"lodash-
compat/lang/isObject":144,"lodash-compat/lang/isString":146}],7:[function(e,t,n){"use strict";var
r=e("./helpers"),i={isPlainObject:e("lodash-compat/lang/isPlainObject"),isUndefined:e("lodash-
compat/lang/isUndefined"),isArray:e("lodash-compat/lang/isArray"),isObject:e("lodash-
compat/lang/isObject"),isEmpty:e("lodash-compat/lang/isEmpty"),map:e("lodash-
compat/collection/map"),indexOf:e("lodash-compat/array/indexOf"),cloneDeep:e("lodash-
compat/lang/cloneDeep"),keys:e("lodash-compat/object/keys"),forEach:e("lodash-
compat/collection/forEach")},a=t.exports.optionHtml=function(e,t){return"<tr><td
class='optionName'>'+e+'</td><td>'+t+'</td></tr>";t.exports.typeFromJsonSchema=function(e,t){var
n;return"integer"===e&&"int32"===t?n="integer":"integer"===e&&"int64"===t?n="long":"integer"===e&&"und
efined"===typeof t?n="long":"string"===e&&"date-time"===t?n="date-
time":"string"===e&&"date"===t?n="date":"number"===e&&"float"===t?n="float":"number"===e&&"double"=
===t?n="double":"number"===e&&"undefined"===typeof
t?n="double":"boolean"===e?n="boolean":"string"===e&&(n="string"),n};var
o=t.exports.getStringSignature=function(e,t){var n="";return"undefined"!typeof
e.$ref?n+=r.simpleRef(e.$ref):"undefined"===typeof
e.type?n+="object":"array"===e.type?t?n+=o(e.items||e.$ref||{}):(n+="Array["",n+=o(e.items||e.$ref||{}),n+="]"):n+
="integer"===e.type&&"int32"===e.format?"integer":"integer"===e.type&&"int64"===e.format?"long":"integer"=
===e.type&&"undefined"===typeof e.format?"long":"string"===e.type&&"date-time"===e.format?"date-
time":"string"===e.type&&"date"===e.format?"date":"string"===e.type&&"undefined"===typeof
e.format?"string":"number"===e.type&&"float"===e.format?"float":"number"===e.type&&"double"===e.format?"
double":"number"===e.type&&"undefined"===typeof
e.format?"double":"boolean"===e.type?"boolean":e.$ref?r.simpleRef(e.$ref):e.type,n},s=t.exports.schemaToJSON=
function(e,t,n,a){e=r.resolveSchema(e),"function"!typeof a&&(a=function(e){return(e||{}).["default"]}),n=n||{};var
o,l,u=e.type||"object",c=e.format;return
i.isUndefined(e.example)?i.isUndefined(e.items)&&i.isArray(e["enum"])&&(l=e["enum"][0]):l=e.example,i.isUnde
fined(l)&&(e.$ref?(o=t[r.simpleRef(e.$ref)],i.isUndefined(o)||i.isUndefined(n[o.name])?(n[o.name]=o,l=s(o.definiti
on,t,n,a),delete n[o.name]):l="array"===o.type?[]:{})):i.isUndefined(e["default"])?"string"===u?l="date-
time"===c?(new Date).toISOString():"date"===c?(new
Date).toISOString().split("T")[0]:"string":"integer"===u?l=0:"number"===u?l=0:"boolean"===u?l=!0:"object"===
u?(l={},i.forEach(e.properties,function(e,r){var
o=i.cloneDeep(e);o["default"]=a(e),l[r]=s(o,t,n,a)})):"array"===u&&(l=[],i.isArray(e.items)?i.forEach(e.items,funct
ion(e){l.push(s(e,t,n,a))}:i.isPlainObject(e.items)?l.push(s(e.items,t,n,a)):i.isUndefined(e.items)?l.push({}):r.log("A
rray type's 'items' property is not an array or an object, cannot
process")):l=e["default"],1);t.exports.schemaToHTML=function(e,t,n,o){function s(e,t,a){var o,s;t;return
e.$ref?(s=e.title|r.simpleRef(e.$ref),o=n[s]):i.isUndefined(t)&&(s=e.title||"Inline Model "+
++m,o={definition:e}),a!==!0&&(f[s]=i.isUndefined(o)?{}:o.definition),s}function l(e){var t='<span
class="propType">',n=e.type||"object";return
e.$ref?t+=s(e,r.simpleRef(e.$ref)):"object"===n?t+=i.isUndefined(e.properties)?"object":s(e):"array"===n?(t+="Arr
ay["",i.isArray(e.items)?t+=i.map(e.items,s).join(","):i.isPlainObject(e.items)?t+=i.isUndefined(e.items.$ref)?i.isUnd

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efined(e.items.type)||i.indexOf(["array","object"],e.items.type)!==
1?s(e.items):e.items.type:s(e.items,r.simpleRef(e.items.$ref)):(r.log("Array
type's 'items' schema is not an array or an object, cannot
process"),t+="object"),t+=""]):t+=e.type,t+="</span>"}function u(e,t){ var
n="",r=e.type||"object",o="array"===r;switch(o&&(r=i.isPlainObject(e.items)&&!i.isUndefined(e.items.type)?e.ite
ms.type:"object"),i.isUndefined(e["default"])){(n+=a("Default",e["default"])),r}{case"string":e.minLength&&(n+=a(
"Min. Length",e.minLength)),e.maxLength&&(n+=a("Max. Length",e.maxLength)),e.pattern&&(n+=a("Reg.
Exp.",e.pattern));break;case"integer":case"number":e.minimum&&(n+=a("Min.
Value",e.minimum)),e.exclusiveMinimum&&(n+=a("Exclusive Min.",true)),e.maximum&&(n+=a("Max.
Value",e.maximum)),e.exclusiveMaximum&&(n+=a("Exclusive Max.",true)),e.multipleOf&&(n+=a("Multiple
Of",e.multipleOf))}if(o&&(e.minItems&&(n+=a("Min. Items",e.minItems)),e.maxItems&&(n+=a("Max.
Items",e.maxItems)),e.uniqueItems&&(n+=a("Unique Items",true)),e.collectionFormat&&(n+=a("Coll.
Format",e.collectionFormat))),i.isUndefined(e.items)&&i.isArray(e["enum"])){ var
s;s="number"===r||"integer"===r?e["enum"].join(", ":"")+e["enum"].join(", ")+"":n+=a("Enum",s)}return
n.length>0&&(t='<span class="propWrap">'+t+'<table class="optionsWrapper"><tr><th
colspan="2">'+r+'</th></tr>'+n+'</table></span>'),t}function c(e,t){ var
a=e.type||"object",c="array"===e.type,f=p+t+
"+(c?"["":"{")+h;if(t&&d.push(t),c)i.isArray(e.items)?f+="<div>"+i.map(e.items,function(e){ var
t=e.type||"object";return i.isUndefined(e.$ref)?i.indexOf(["array","object"],t)>-
1?"object"===t&&i.isUndefined(e.properties)?"object":s(e):u(e,t):s(e,r.simpleRef(e.$ref))}).join(",</div><div>"):i.i
sPlainObject(e.items)?f+=i.isUndefined(e.items.$ref)?i.indexOf(["array","object"],e.items.type||"object")>-
1?(i.isUndefined(e.items.type)||"object"===e.items.type)&&i.isUndefined(e.items.properties)?<div>object</div>":
"<div>"+s(e.items)+"</div>":<div>"+u(e.items,e.items.type)+"</div>":<div>"+s(e.items,r.simpleRef(e.items.$ref
))+"</div>":(r.log("Array
type's 'items' property is not an array or an object, cannot process"),f+="<div>object</div>");else
if(e.$ref)f+="<div>"+s(e,t)+"</div>";else if("object"===a){if(i.isPlainObject(e.properties)){ var
m=i.map(e.properties,function(t,a){ var
s,c,p=i.indexOf(e.required,a)>=0,h=i.cloneDeep(t),f=p?"required":""",d='<span class="propName
'+f+'>'+a+'</span> ("';return
h["default"]=o(h),h=r.resolveSchema(h),c=t.description||h.description,i.isUndefined(h.$ref)||s=n[r.simpleRef(h.$ref
)],i.isUndefined(s)||i.indexOf([void 0,"array","object"],s.definition.type)!==
1||(h=r.resolveSchema(s.definition)),d+=l(h),p||(d+=', <span
class="propOptKey">optional</span>'),t.readOnly&&(d+=', <span class="propReadOnly">read
only</span>'),d+=')',i.isUndefined(c)||(d+=': <span class="propDesc">'+c+'</span>'),h["enum"]&&(d+=': <span
class="propVals">[\'+h["enum"].join(", ")+"</span>"),<div>+(t.readOnly?
class="readOnly":'')+">"+u(h,d)).join(",</div>");m&&(f+=m+'</div>')}}else
f+="<div>"+u(e,a)+"</div>";return
f+p+(c?"["":"{")+h}var p='<span class="strong">'+h+'</span>';if(i.isObject(arguments[0])&&(e=void
0,t=arguments[0],n=arguments[1],o=arguments[2]),n=n||{}},t=r.resolveSchema(t),i.isEmpty(t))return
p+"Empty"+h;if("string"===typeof t.$ref&&(e=r.simpleRef(t.$ref),t=n[e],"undefined"===typeof t))return p+e+" is
not defined!"+h;"string"!==typeof e&&(e=t.title||"Inline Model"),t.definition&&(t=t.definition),"function"!==typeof
o&&(o=function(e){return(e||{}).["default"]});for(var
f={},d=[],m=0,g=c(t,e);i.keys(f).length>0;i.forEach(f,function(e,t){ var n=i.indexOf(d,t)>-1;delete
f[t],n||(d.push(t),g+=<br />"+c(e,t));return g}},{"/.helpers":4,"lodash-compat/array/indexOf":49,"lodash-
compat/collection/forEach":54,"lodash-compat/collection/map":56,"lodash-compat/lang/cloneDeep":138,"lodash-
compat/lang/isArray":140,"lodash-compat/lang/isEmpty":141,"lodash-compat/lang/isObject":144,"lodash-
compat/lang/isPlainObject":145,"lodash-compat/lang/isUndefined":148,"lodash-
compat/object/keys":149}],8:[function(e,t,n){ "use

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strict";var r=e("./http"),i={isObject:e("lodash-
compat/lang/isObject")},a=t.exports=function(){this.errors=[],this.warnings=[],this.modelMap={};a.prototype.set
DocumentationLocation=function(e){this.docLocation=e},a.prototype.convert=function(e,t,n,r){if(!e||!Array.isArray
(e.apis))return this.finish(r,null);this.clientAuthorizations=t;var
i={swagger:"2.0"};i.originalVersion=e.swaggerVersion,this.apiInfo(e,i),this.securityDefinitions(e,i),e.basePath&&t
his.setDocumentationLocation(e.basePath);var a,o=!1;for(a=0;a<e.apis.length;a++){var
s=e.apis[a];Array.isArray(s.operations)&&(o=!0)}o?(this.declaration(e,i),this.finish(r,i)):this.resourceListing(e,i,n,r
),a.prototype.declaration=function(e,t){var
n,r,a,o;if(e.apis){0===e.basePath.indexOf("http://")?(a=e.basePath.substring("http://".length),o=a.indexOf("/"),o>0?
(t.host=a.substring(0,o),t.basePath=a.substring(o)):t.host=a,t.basePath="/"):0===e.basePath.indexOf("https://")?(a
=e.basePath.substring("https://".length),o=a.indexOf("/"),o>0?(t.host=a.substring(0,o),t.basePath=a.substring(o)):t
.host=a,t.basePath="/"):t.basePath=e.basePath;var
s;if(e.authorizations&&(s=e.authorizations),e.consumes&&(t.consumes=e.consumes),e.produces&&(t.produces=e.p
roduces),i.isObject(e))for(n in e.models){var
l=e.models[n],u=l.id||n;this.modelMap[u]=n}for(r=0;r<e.apis.length;r++){var
c=e.apis[r],p=c.path,h=c.operations;this.operations(p,e.resourcePath,h,s,t)}var
f=e.models||{};this.models(f,t)},a.prototype.models=function(e,t){if(i.isObject(e)){var
n;t.definitions=t.definitions||{};for(n in e){var r,a=e[n],o=[],s={properties:{}};for(r in a.properties){var
l=a.properties[r],u={};this.dataType(l,u),l.description&&(u.description=l.description),l["enum"]&&(u["enum"]=l["e
num"]),l["boolean"]===typeof l.required&&l.required===!0&&o.push(r),l["string"]===typeof
l.required&&"true"===l.required&&o.push(r),s.properties[r]=u}o.length>0?s.required=o:s.required=a.required,t.def
initions[n]=s}},a.prototype.extractTag=function(e){var
t=e||"default";return 0!==t.indexOf("http:")&&0!==t.indexOf("https:")?(t=t.split(["/"]),t=t[t.length-
1].substring(),t.endsWith(".json")&&(t=t.substring(0,t.length-
".json".length)),t.replace("/","")),a.prototype.operations=function(e,t,n,r,i){if(Array.isArray(n)){var
a;i.paths||(i.paths={});var o=i.paths[e]||{};s=this.extractTag(t);i.tags=i.tags||[];var
l=!1;for(a=0;a<i.tags.length;a++){var
u=i.tags[a];u.name===s&&(l=!0)}for(l||i.tags.push({name:s}),a=0;a<n.length;a++){var
c=n[a],p=(c.method||c.httpMethod).toLowerCase(),h={tags:[s]},f=c.authorizations;if(f&&0===Object.keys(f).lengt
h&&(f=r),"undefined"!==typeof f){var d;for(var m in f){h.security=h.security||[];var g=ff[m];if(g){var y=[];for(var v
in g)y.push(g[v].scope);d={},d[m]=y,h.security.push(d)}else
d={},d[m]=[],h.security.push(d)}c.consumes?h.consumes=c.consumes:i.consumes&&(h.consumes=i.consumes),c
.produces?h.produces=c.produces:i.produces&&(h.produces=i.produces),c.summary&&(h.summary=c.summary),c.n
otes&&(h.description=c.notes),c.nickname&&(h.operationId=c.nickname),c.deprecated&&(h.deprecated=c.depreca
ted),this.authorizations(f,i),this.parameters(h,c.parameters,i),this.responseMessages(h,c,i),o[p]=h}i.paths[e]=o}},a.pr
ototype.responseMessages=function(e,t){if(i.isObject(t)){var
n={};this.dataType(t,n),!n.schema&&n.type&&(n={schema:n}),e.responses=e.responses||{};var
r=!1;if(Array.isArray(t.responseMessages)){var a,o=t.responseMessages;for(a=0;a<o.length;a++){var
s=o[a],l={description:s.message};200===s.code&&(r=!0),s.responseModel&&(l.schema={$ref:"#/definitions/" +s.r
esponseModel}),e.responses[""+s.code]=l}r?e.responses["default"]=n:e.responses[200]=n}},a.prototype.authorizati
ons=function(e){!i.isObject(e)},a.prototype.parameters=function(e,t){if(Array.isArray(t)){var
n;for(n=0;n<t.length;n++){var
r=t[n],i={};if(i.name=r.name,i.description=r.description,i.required=r.required,i["in"]=r.paramType,"body"===i["in"
]&&(i.name="body"),"form"===i["in"]&&(i["in"]="formData"),r["enum"]&&(i["enum"]=r["enum"]),r.allowMultipl
e===!0||"true"===r.allowMultiple){var
a={};if(this.dataType(r,a),i.type="array",i.items=a,r.allowableValues){var
o=r.allowableValues;"LIST"===o.valueType&&(i["enum"]=o.values)}else this.dataType(r,i),"undefined"!==typeof
r.defaultValue&&(i["default"]=r.defaultValue),e.parameters=e.parameters||[],e.parameters.push(i)}},a.prototype.da

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taType=function(e,t){if(!i.isObject(e)){e.minimum&&(t.minimum=e.minimum),e.maximum&&(t.maximum=e.maximu
m),e.format&&(t.format=e.format),"undefined"! =typeof e.defaultValue&&(t["default"]=e.defaultValue);var
n=this.toJsonSchema(e);n&&(t=t||{ },n.type&&(t.type=n.type),n.format&&(t.format=n.format),n.$ref&&(t.schema=
{$ref:n.$ref}),n.items&&(t.items=n.items))},a.prototype.toJsonSchema=function(e){if(!e)return"object";var
t=e.type||e.dataType||e.responseClass||"",n=t.toLowerCase(),r=(e.format||"").toLowerCase();if(0===n.indexOf("list["
))){var i=t.substring(5,t.length-
1),a=this.toJsonSchema({ type:i });return{ type:"array",items:a } }if("int"===n||"integer"===n&&"int32"===r)return{ t
ype:"integer",format:"int32" };if("long"===n||"integer"===n&&"int64"===r)return{ type:"integer",format:"int64" };if
("integer"===n)return{ type:"integer",format:"int64" };if("float"===n||"number"===n&&"float"===r)return{ type:"n
umber",format:"float" };if("double"===n||"number"===n&&"double"===r)return{ type:"number",format:"double" };i
f("string"===n&&"date-time"===r||"date"===n)return{ type:"string",format:"date-
time" };if("string"===n)return{ type:"string" };if("file"===n)return{ type:"file" };if("boolean"===n)return{ type:"boole
an" };if("boolean"===n)return{ type:"boolean" };if("array"===n||"list"===n){if(e.items){ var
o=this.toJsonSchema(e.items);return{ type:"array",items:o } }return{ type:"array",items:{ type:"object" } } }return
e.$ref?{$ref:this.modelMap[e.$ref]?"/definitions/"+this.modelMap[e.$ref]:e.$ref:"void"===n||"===n?{}:this.mo
delMap[e.type]?{$ref:"#/definitions/"+this.modelMap[e.type]}:{ type:e.type }},a.prototype.resourceListing=function
(e,t,n,i){ var
a,o=0,s=this,l=e.apis.length,u=t,c={ };n&&n.requestInterceptor&&(c.requestInterceptor=n.requestInterceptor),n&&
n.responseInterceptor&&(c.responseInterceptor=n.responseInterceptor);var
p="application/json";for(n&&n.swaggerRequestHeaders&&(p=n.swaggerRequestHeaders),0===l&&this.finish(i,t),
a=0;a<l;a++){ var
h=e.apis[a],f=h.path,d=this.getAbsolutePath(e.swaggerVersion,this.docLocation,f);h.description&&(t.tags=t.tags||[],
t.tags.push({ name:this.extractTag(h.path),description:h.description||""}));var
m={ url:d,headers: { accept:p },on: { },method:"get",timeout:n.timeout };m.on.response=function(e) { o+=1;var
t=e.obj;t&&s.declaration(t,u),o===l&&s.finish(i,u)},m.on.error=function(e) { console.error(e),o+=1,o===l&&s.finis
h(i,u)},this.clientAuthorizations&&"function"===typeof
this.clientAuthorizations.apply&&this.clientAuthorizations.apply(m),(new
r).execute(m,c) },a.prototype.getAbsolutePath=function(e,t,n){ if("1.0"===e&&t.endsWith(".json")){ var
r=t.lastIndexOf("/");r>0&&(t=t.substring(0,r)) } var i=t;return
0===n.indexOf("http:")||0===n.indexOf("https:")?i=n.(t.endsWith("/")&&(i=t.substring(0,t.length-
1)),i+=n),i=i.replace(" {format} ", "json"),a.prototype.securityDefinitions=function(e,t){ if(e.authorizations){ var
n;for(n in e.authorizations){ var
r=!1,i={ vendorExtensions: { } },a=e.authorizations[n];if("apiKey"===a.type)i.type="apiKey",i["in"]=a.passAs,i.name
=a.keyname||n,r=!0;else if("basicAuth"===a.type)i.type="basicAuth",r=!0;else if("oauth2"===a.type){ var
o,s=a.scopes||[],l={ };for(o in s){ var
u=s[o];l[u.scope]=u.description } if(i.type="oauth2",o>0&&(i.scopes=l),a.grantTypes){ if(a.grantTypes.implicit){ var
c=a.grantTypes.implicit;i.flow="implicit",i.authorizationUrl=c.loginEndpoint,r=!0 } if(a.grantTypes.authorization_co
de&&!i.flow){ var
p=a.grantTypes.authorization_code;i.flow="accessCode",i.authorizationUrl=p.tokenRequestEndpoint.url,i.tokenUrl
=p.tokenEndpoint.url,r=!0 } } r&&(t.securityDefinitions=t.securityDefinitions||{ },t.securityDefinitions[n]=i) } } ,a.pr
ototype.apiInfo=function(e,t){ if(e.info){ var
n=e.info;t.info={ },n.contact&&(t.info.contact={ },t.info.contact.email=n.contact),n.description&&(t.info.description
=n.description),n.title&&(t.info.title=n.title),n.termsOfServiceUrl&&(t.info.termsOfService=n.termsOfServiceUrl),(
n.license||n.licenseUrl)&&(t.license={ },n.license&&(t.license.name=n.license),n.licenseUrl&&(t.license.url=n.licen
seUrl)) } else
this.warnings.push("missing info section"),a.prototype.finish=function(e,t){ e(t) },{ "/http":5,"lodash-
compat/lang/isObject":144},9:[function(e,t,n){ "use strict";var r=(e("../helpers").log, { isPlainObject:e("lodash-
compat/lang/isPlainObject"),isString:e("lodash-compat/lang/isString")}),i=e("../schema-markup.js"),a=e("js-

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yaml"),o=t.exports=function(e,t,n,r){return
this.definition=t||{ },this.isArray="array"===t.type,this.models=n||{ },this.name=e||t.title||"Inline
Model",this.modelPropertyMacro=r||function(e){return
e["default"]},this};o.prototype.createJSONSample=o.prototype.getSampleValue=function(e){return
e=e||{ },e[this.name]=this,this.examples&&this.isPlainObject(this.examples)&&this.examples["application/json"]?(this
.definition.example=this.examples["application/json"],r.isString(this.definition.example)&&(this.definition.example
=a.safeLoad(this.definition.example)):this.definition.example||(this.definition.example=this.examples),i.schemaToJ
SON(this.definition,this.models,e,this.modelPropertyMacro)},o.prototype.getMockSignature=function(){return
i.schemaToHTML(this.name,this.definition,this.models,this.modelPropertyMacro)},{"/helpers":4,"/schema-
markup.js":7,"js-yaml":19,"lodash-compat/lang/isPlainObject":145,"lodash-
compat/lang/isString":146}],10:[function(e,t,n){"use strict";function r(e,t){if(i.isEmpty(t))return e[0];for(var
n=0,r=t.length;n<r;n++)if(e.indexOf(t[n])>-1)return t[n];return e[0]}var i={cloneDeep:e("lodash-
compat/lang/cloneDeep"),isUndefined:e("lodash-compat/lang/isUndefined"),isEmpty:e("lodash-
compat/lang/isEmpty"),isObject:e("lodash-
compat/lang/isObject")},a=e("./helpers"),o=e("./model"),s=e("./http"),l=e("q"),u=t.exports=function(e,t,n,r,i,s,l,u,c)
{var
p=[];e=e||{ },s=s||{ },e&&e.options&&(this.client=e.options.client||null,this.requestInterceptor=e.options.requestInter
ceptor||null,this.responseInterceptor=e.options.responseInterceptor||null),this.authorizations=s.security,this.basePath
=e.basePath||"/",this.clientAuthorizations=c,this.consumes=s.consumes||e.consumes||["application/json"],this.produc
es=s.produces||e.produces||["application/json"],this.deprecated=s.deprecated,this.description=s.description,this.host=
e.host,this.method=r||p.push("Operation "+n+" is missing
method."),this.models=u||{ },this.nickname=n||p.push("Operations must have a
nickname."),this.operation=s,this.operations={ },this.parameters=null!==(s?&s.parameters||[]:{}),this.parent=e,this.path
=i||p.push("Operation "+this.nickname+" is missing
path."),this.responses=s.responses||{ },this.scheme=t||e.scheme||"http",this.schemes=s.schemes||e.schemes,this.securit
y=s.security||e.security,this.summary=s.summary||"",this.timeout=e.timeout,this.type=null,this.useJQuery=e.useJQu
ery,this.jqueryAjaxCache=e.jqueryAjaxCache,this.enableCookies=e.enableCookies;var
h;if(this.host||("undefined"!==typeof
window?this.host=window.location.host:this.host="localhost"),this.parameterMacro=e.parameterMacro||function(e,t)
){return t["default"]},this.inlineModels=[],"/"===this.basePath&&"/"===this.basePath.slice(-
1)&&(this.basePath=this.basePath.slice(0,-1)),"string"===typeof
this.deprecated)switch(this.deprecated.toLowerCase){case"true":case"yes":case"1":this.deprecated=!0;break;case"
false":case"no":case"0":case null:this.deprecated=!1;break;default:this.deprecated=Boolean(this.deprecated)}var
f,d;if(l)for(h in l)d=new o(h,l[h],this.models,e.modelPropertyMacro),d&&(this.models[h]=d);else
l={ };for(f=0;f<this.parameters.length;f++){ var
m,g=this.parameters[f];g["default"]=this.parameterMacro(this,g),"array"===g.type&&(g.isList=!0,g.allowMultiple=
!0);var
y=this.getType(g);y&&"boolean"===y.toString().toLowerCase()&&(g.allowableValues={ },g.isList=!0,g["enum"]=
[!0,!1]);for(h
in g)a.extractExtensions(h,g);"undefined"!==typeof g["x-example"]&&(m=g["x-example"],g["default"]=m),g["x-
examples"]&&(m=g["x-examples"]["default"],"undefined"!==typeof m&&(g["default"]=m));var
v=g["enum"]||g.items&&g.items["enum"];if("undefined"!==typeof v){ var
b;for(g.allowableValues={ },g.allowableValues.values=[],g.allowableValues.descriptiveValues=[],b=0;b<v.length;b
++){ var
w=v[b],_=w===g["default"]||w+" "===g["default"];g.allowableValues.values.push(w),g.allowableValues.descriptive
Values.push({ value:w+" ",isDefault:_ })} "array"===g.type&&(y=[y],"undefined"===typeof
g.allowableValues&&(delete g.isList,delete
g.allowMultiple)),g.modelSignature={ type:y,definitions:this.models },g.signature=this.getModelSignature(y,this.mo

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dels).toString(),g.sampleJSON=this.getModelSampleJSON(y,this.models),g.responseClassSignature=g.signature }va
r
x,A,S,j=this.responses;j[200]?(S=j[200],A="200");j[201]?(S=j[201],A="201");j[202]?(S=j[202],A="202");j[203]?(S
=j[203],A="203");j[204]?(S=j[204],A="204");j[205]?(S=j[205],A="205");j[206]?(S=j[206],A="206");j["default"]&
&(S=j["default"],A="default");for(x
in j)if(a.extractExtensions(x,j),"string"===typeof x&&x.indexOf("x-")===-1){ var E=j[x];if("object"===typeof
E&&"object"===typeof E.headers){ var O=E.headers;for(var k in O){ var T=O[k];if("object"===typeof T)for(var C in
T)a.extractExtensions(C,T) } }if(S)for(x in S)a.extractExtensions(x,S);if(S&&S.schema){ var
I,D=this.resolveModel(S.schema,l);delete
j[A],D?(this.successResponse={},I=this.successResponse[A]=D):S.schema.type&&"object"!==S.schema.type&&"a
rray"!==S.schema.type?(this.successResponse={},I=this.successResponse[A]=S.schema):(this.successResponse={},
I=this.successResponse[A]=new o((void
0),S.schema||{ },this.models,e.modelPropertyMacro)),I&&(I.vendorExtensions=S.vendorExtensions,S.description&
&(I.description=S.description),S.examples&&(I.examples=S.examples),S.headers&&(I.headers=S.headers)),this.typ
e=S }return
p.length>0&&this.resource&&this.resource.api&&this.resource.api.fail&&this.resource.api.fail(p),this };u.prototype
.isDefaultArrayItemValue=function(e,t){ return
t["default"]&&Array.isArray(t["default"])?t["default"].indexOf(e)!==
1:e===t["default"]},u.prototype.getType=function(e){ var
t,n=e.type,r=e.format,i=!1;"integer"===n&&"int32"===r?t="integer":"integer"===n&&"int64"===r?t="long":"inte
ger"===n?t="integer":"string"===n?t="date-time"===r?t="date-
time":"date"===r?t="date":"string":"number"===n&&"float"===r?t="float":"number"===n&&"double"===r?t="dou
ble":"number"===n?t="double":"boolean"===n?t="boolean":"array"===n?(i=!0,e.items&&(t=this.getType(e.items)
)):"file"===n&&(t="file"),e.$ref&&(t=a.simpleRef(e.$ref));var o=e.schema;if(o){ var s=o.$ref;return
s?(s=a.simpleRef(s),i?[s]:s):"object"===o.type?this.addInlineModel(o):this.getType(o)}return
i?[t]:t},u.prototype.addInlineModel=function(e){ var t=this.inlineModels.length,n=this.resolveModel(e, {});return
n?(this.inlineModels.push(n),"Inline Model "+t):null },u.prototype.getInlineModel=function(e){ if(/^Inline
Model \d+$/i.test(e)){ var t=parseInt(e.substr("Inline Model".length).trim(),10),n=this.inlineModels[t];return
n }return null },u.prototype.resolveModel=function(e,t){ if("undefined"!==typeof e.$ref){ var
n=e.$ref;if(0===n.indexOf("#/definitions/")&&(n=n.substring("#/definitions/".length)),t[n])return new
o(n,t[n],this.models,this.parent.modelPropertyMacro)}else if(e&&"object"===typeof
e&&("object"===e.type||i.isUndefined(e.type)))return new o((void
0),e,this.models,this.parent.modelPropertyMacro);return null },u.prototype.help=function(e){ for(var
t=this.nickname+": "+this.summary+"\n",n=0;n<this.parameters.length;n++){ var
r=this.parameters[n],i=r.signature;t+="\n * "+r.name+" ("+"i+"): "+r.description }return"undefined"===typeof
e&&a.log(t,t),u.prototype.getModelSignature=function(e,t){ var n,r;return e instanceof
Array&&(r=!0,e=e[0]),"undefined"===typeof
e?(e="undefined",n=!0):t[e]?(e=t[e],n=!1):this.getInlineModel(e)?(e=this.getInlineModel(e),n=!1):n=!0,n?"Array[
"+e+"]":e.toString():r?"Array["+e.getMockSignature()+"]":e.getMockSignature(),u.prototype.supportHeaderParam
s=function(){ return!0},u.prototype.supportedSubmitMethods=function(){ return
this.parent.supportedSubmitMethods },u.prototype.getHeaderParams=function(e){ for(var
t=this.setContentTypes(e, {}),n={},r=0;r<this.parameters.length;r++){ var
i=this.parameters[r];"header"===i["in"]&&(n[i.name.toLowerCase()]=i)}for(var a in e){ var
o=n[a.toLowerCase()];if("undefined"!==typeof o){ var
s=e[a];Array.isArray(s)&&(s=s.toString(),t[o.name]=s) } return t},u.prototype.urlify=function(e){ for(var
t={},n=this.path.replace(/#.*\/","),r="",i=0;i<this.parameters.length;i++){ var
a=this.parameters[i];if("undefined"!==typeof e[a.name])if("path"===a["in"]){ var o=new
RegExp("{"+"a.name+"}","gi"),s=e[a.name];s=Array.isArray(s)?this.encodePathCollection(a.collectionFormat,a.nam

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e,s):this.encodePathParam(s),n=n.replace(o,s)}else if("query"===a["in"]&&"undefined"!==typeof
e[a.name])if(r+="""===r&&n.indexOf("?")<0?"":":"&","undefined"!==typeof
a.collectionFormat){var
l=e[a.name];r+=Array.isArray(l)?this.encodeQueryCollection(a.collectionFormat,a.name,l):this.encodeQueryKey(a.
name)+"="+this.encodeQueryParam(e[a.name])}else
r+=this.encodeQueryKey(a.name)+"="+this.encodeQueryParam(e[a.name]);else"formData"===a["in"]&&(t[a.name
]=e[a.name])}var u=this.scheme+"://"+this.host;
return"/"!==this.basePath&&(u+=this.basePath),u+n+r},u.prototype.getMissingParams=function(e){var
t,n=[];for(t=0;t<this.parameters.length;t++){var r=this.parameters[t];r.required===!0&&"undefined"===typeof
e[r.name]&&(n=r.name)}return n},u.prototype.getBody=function(e,t){for(var
n,r,i,a,o,s={},l=!1,u=0;u<this.parameters.length;u++)r=this.parameters[u],"undefined"!==typeof
t[r.name]?"body"===r["in"]?i=t[r.name]:"formData"===r["in"]&&(s[r.name]={param:r,value:t[r.name]},n=!0):"bo
dy"===r["in"]&&(l=!0);if(l&&"undefined"===typeof i){var c=e["Content-
Type"];c&&0===c.indexOf("application/json")&&(i="{}")}var p=!1;if(e["Content-Type"]&&e["Content-
Type"].indexOf("multipart/form-data")>=0&&(p=!0),n&&!p){var
h="";for(a in s)r=s[a].param,o=s[a].value,"undefined"!==typeof
o&&(Array.isArray(o)?("!"===h&&(h+="&"),h+=this.encodeQueryCollection(r.collectionFormat,a,o)):(!"===h&&(
h+="&"),h+=encodeURIComponent(a)+"="+encodeURIComponent(o));i=h}else if(p){var f;if("function"===typeof
FormData){f=new FormData,f.type="formData";for(a in s)if(r=s[a].param,o=t[a],"undefined"!==typeof o)if("[object
File]"==={}&&.toString.apply(o).f.append(a,o);else if("file"===o.type&&o.value)f.append(a,o.value);else
if(Array.isArray(o))if("multi"===r.collectionFormat){f["delete"]}(a);for(var d in o)f.append(a,o[d])}else
f.append(a,this.encodeQueryCollection(r.collectionFormat,a,o).split("=").slice(1).join("="));else
f.append(a,o);i=f}else{f={};for(a in s)if(o=t[a],Array.isArray(o)){var
m,g=r.collectionFormat||"multi";if("ssv"===g)m=" ";else if("pipes"===g)m="|";else
if("tsv"===g)m="\t";else{if("multi"===g){f[a]=o;break}m=","}var
y;o.forEach(function(e){y?y+=m:y="";y+=e}),f[a]=y}else
f[a]=o;i=f}e["Content-Type"]="multipart/form-data"}return
i},u.prototype.getModelSampleJSON=function(e,t){var n,r,a;if(t=t||{}&&n=e instanceof
Array,a=n?e[0]:e,t[a]?r=t[a].createJSONSample():this.getInlineModel(a)&&(r=this.getInlineModel(a).createJSONS
ample()),r){if(r=n?[r]:r,"string"===typeof r)return r;if(i.isObject(r)){var o=r;if(r instanceof
Array&&r.length>0&&(o=r[0]),o.nodeName&&"Node"===typeof o){var s=(new
XMLSerializer).serializeToString(o);return this.formatXml(s)}return JSON.stringify(r,null,2)}return
r}},u.prototype["do"]=function(e,t,n,r,i){return this.execute(e,t,n,r,i)},u.prototype.execute=function(e,t,n,r,o){var
u,c,p,h,f=e||{}&&d={};i.isObject(t)&&(d=t,u=n,c=r),h="undefined"!==typeof
d.timeout?d.timeout:this.timeout,this.client&&(d.client=this.client),!d.requestInterceptor&&this.requestInterceptor
&&(d.requestInterceptor=this.requestInterceptor),!d.responseInterceptor&&this.responseInterceptor&&(d.responseI
nterceptor=this.responseInterceptor),"function"===typeof
t&&(u=t,c=n),this.parent.usePromise?p=l.defer():(u=u||this.parent.defaultSuccessCallback||a.log,c=c||this.parent.def
aultErrorCallback||a.log),"undefined"===typeof
d.usejQuery&&(d.usejQuery=this.usejQuery),"undefined"===typeof
d.jqueryAjaxCache&&(d.jqueryAjaxCache=this.jqueryAjaxCache),"undefined"===typeof
d.enableCookies&&(d.enableCookies=this.enableCookies);var m=this.getMissingParams(f);if(m.length>0){var
g="missing required params: "+m;return a.fail(g),this.parent.usePromise?(p.reject(g),p.promise):(c(g,o),{ })}var
y,v=this.getHeaderParams(f),b=this.setContentTypes(f,d,w={};for(y in v)w[y]=v[y];for(y in b)w[y]=b[y];var
_=this.getBody(b,f,d),x=this.urlify(f);if(x.indexOf(".{format}")>0&&w){var
A=w.Accept||w.accept;A&&A.indexOf("json")>0?x=x.replace(".{format}",".json"):A&&A.indexOf("xml")>0&&(
x=x.replace(".{format}",".xml"))}var
S={url:x,method:this.method.toUpperCase(),body:_,enableCookies:d.enableCookies,usejQuery:d.usejQuery,jquery

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AjaxCache:d.jqueryAjaxCache,deferred:p,headers:w,clientAuthorizations:d.clientAuthorizations,on:{response:func
ion(e){return
p?(p.resolve(e),p.promise):u(e,o)},error:function(e){return p?(p.reject(e),p.promise):c(e,o)}};return
h&&(S.timeout=h),this.clientAuthorizations.apply(S,this.operation.security),d.mock===!0?S:(new
s).execute(S,d),u.prototype.setContentTypes=function(e,t){var
n,i,o=this.parameters,s=e.parameterContentType||r(this.consumes,["application/json","application/yaml"]),l=t.respon
seContentType||r(this.produces,["application/json","application/yaml"]),u=[],c=[],p={};for(i=0;i<o.length;i++){var
h=o[i];if("formData"===h["in"])file"===h.type?u.push(h):c.push(h);else if("header"===h["in"]&&t){var
f=h.name,d=t[h.name];"undefined"!==typeof t[h.name]&&(p[f]=d)}else"body"===h["in"]&&"undefined"!==typeof
e[h.name]&&(n=e[h.name])}var
m=n||u.length|c.length;if("post"===this.method||"put"===this.method||"patch"===this.method||("delete"===this.met
hod||"get"===this.method)&&m){if(t.requestContentType&&(s=t.requestContentType),c.length>0){if(s=void
0,t.requestContentType)s=t.requestContentType;else if(u.length>0)s="multipart/form-data";else
if(this.consumes&&this.consumes.length>0)for(var g in this.consumes){var
y=this.consumes[g];0!==(y.indexOf("application/x-www-form-urlencoded")&&0!==(y.indexOf("multipart/form-
data"))|(s=y))"undefined"===typeof s&&(s="application/x-www-form-urlencoded")}else s=null;return
s&&this.consumes&&this.consumes.indexOf(s)===-1&&a.log("server doesn't consume "+s+", try
"+JSON.stringify(this.consumes)),this.matchesAccept(l)|a.log("server can't produce
"+l),s&&"!=="||"application/x-www-form-urlencoded"===s?p["Content-
Type"]=s:this.consumes&&this.consumes.length>0&&"application/x-www-form-
urlencoded"===this.consumes[0]&&(p["Content-
Type"]=this.consumes[0]),l&&(p.Accept=l),p},u.prototype.matchesAccept=function(e){return!e||this.produces||((thi
s.produces.indexOf(e)!==-1||this.produces.indexOf("*/")!==-1)},u.prototype.asCurl=function(e,t){var
n={mock:!0};if("object"===typeof t)for(var r in t)n[r]=t[r];var
a=this.execute(e,n);this.clientAuthorizations.apply(a,this.operation.security);var
o=[];if(o.push("-X "+this.method.toUpperCase()),"undefined"!==typeof a.headers){var s;for(s in a.headers){var
l=a.headers[s];"string"===typeof l&&(l=l.replace(/\//g,"\u0027")),o.push("--header '"+s+": "+l+"")}}var
u=!1,c=!1,p=a.headers["Content-Type"];if(p&&0===p.indexOf("application/x-www-form-
urlencoded")?u=!0:p&&0===p.indexOf("multipart/form-data")&&(u=!0,c=!0),a.body){var
h;if(i.isObject(a.body)){if(c){c=!0;for(var f=0;f<this.parameters.length;f++){var
d=this.parameters[f];if("formData"===d["in"]){h||(h="");var m;if(m="function"===typeof FormData&&a.body
instanceof FormData?a.body.getAll(d.name):a.body[d.name])if("file"===d.type)m.name&&(h+="-F
"+d.name+"=@"+m.name+" ");else if(Array.isArray(m))if("multi"===d.collectionFormat)for(var g in m)h+="-F
"+this.encodeQueryKey(d.name)+"="+m[g]+" ";else h+="-F
"+this.encodeQueryCollection(d.collectionFormat,d.name)+" ";else h+="-F
"+this.encodeQueryKey(d.name)+"="+m+"
"} } }h||(h=JSON.stringify(a.body))else h=a.body;h=h.replace(/\//g,"%27").replace(/\n/g," \\n
"),u||(h=h.replace(/&/g,"%26")),c?o.push(h):o.push("-d '"+h.replace(/@/g,"%40")+""))}return"curl "+o.join(" ")+"
"+a.url+"",u.prototype.encodePathCollection=function(e,t,n){var
r,i="";for(a="ssv"===e?"%20":"tsv"===e?"%09":"pipes"===e?"|":"",r=0;r<n.length;r++)0===r?i=this.encode
QueryParam(n[r]):i+=a+this.encodeQueryParam(n[r]);return
i},u.prototype.encodeQueryCollection=function(e,t,n){var
r,i="";if(e=e||"default","default"===e||"multi"===e)for(r=0;r<n.length;r++)r>0&&(i+="&"),i+=this.encodeQueryKe
y(t)+"="+this.encodeQueryParam(n[r]);else{var a="";if("csv"===e)a=",";else if("ssv"===e)a="%20";else
if("tsv"===e)a="%09";else if("pipes"===e)a="|";else
if("brackets"===e)for(r=0;r<n.length;r++)0!==(r&&(i+="&")),i+=this.encodeQueryKey(t)+"["+this.encodeQueryP
aram(n[r]);if("!"===a)for(r=0;r<n.length;r++)0===r?i=this.encodeQueryKey(t)+"="+this.encodeQueryParam(n[r]):i+
=a+this.encodeQueryParam(n[r])}return

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i},u.prototype.encodeQueryKey=function(e){return
encodeURIComponent(e).replace("%5B","[").replace("%5D","]").replace("%24","$"),u.prototype.encodeQueryPar
am=function(e){return encodeURIComponent(e)},u.prototype.encodePathParam=function(e){return
encodeURIComponent(e)},{"/helpers":4,"/http":5,"/model":9,"lodash-compat/lang/cloneDeep":138,"lodash-
compat/lang/isEmpty":141,"lodash-compat/lang/isObject":144,"lodash-
compat/lang/isUndefined":148,q:157}],11:[function(e,t,n){"use strict";var
r=t.exports=function(e,t,n,r){this.description=t,this.externalDocs=n,this.name=e,this.operation=r,this.operationsArra
y=[],this.path=e,this.tag=e;r.prototype.sort=function(){},{}},12:[function(e,t,n){function r(){if(!s){s=!0;for(var
e,t=o.length;t){e=o,o=[];for(var n=-1;++n<t;e[n]();t=o.length}s=!1}}function i(){var
a=t.exports={},o=[],s=!1;a.nextTick=function(e){o.push(e),s||setTimeout(r,0)},a.title="browser",a.browser=!0,a.env
={},a.argv=[],a.version="",a.versions={},a.on=i,a.addListener=i,a.once=i,a.off=i,a.removeListener=i,a.removeAllLi
steners=i,a.emit=i,a.binding=function(e){throw
new Error("process.binding is not supported")},a.cwd=function(){return""},a.chdir=function(e){throw new
Error("process.chdir is not supported")},a.umask=function(){return
0}},{}},13:[function(e,t,n){(function(e){!function(){"use strict";function n(t){var n;return n=t instanceof e?t:new
e(t.toString(),"binary"),n.toString("base64")}t.exports=n})();call(this,e("buffer").Buffer)},{buffer:14}],14:[functio
n(e,t,n){function r(){return i.TYPED_ARRAY_SUPPORT?2147483647:1073741823}function i(e){return this
instanceof i?(this.length=0,this.parent=void 0,"number"===typeof e?a(this,e):"string"===typeof
e?o(this,e,arguments.length>1?arguments[1]:"utf8"):s(this,e):arguments.length>1?new i(e,arguments[1]):new
i(e)}function a(e,t){if(e=d(e,t<0?0:m(t)),!i.TYPED_ARRAY_SUPPORT)for(var n=0;n<t;n++)e[n]=0;return
e}function o(e,t,n){"string"===typeof n&&"!=="n||(n="utf8");var r=0|y(t,n);return
e=d(e,r),e.write(t,n),e}function s(e,t){if(i.isBuffer(t))return l(e,t);if(Q(t))return u(e,t);if(null===t)throw new
TypeError("must start with number, buffer, array or string");if("undefined"!==typeof ArrayBuffer){if(t.buffer
instanceof ArrayBuffer)return c(e,t);if(t instanceof ArrayBuffer)return p(e,t)}return t.length?h(e,t):f(e,t)}function
l(e,t){var n=0|m(t.length);return e=d(e,n),t.copy(e,0,0,n),e}function u(e,t){var n=0|m(t.length);e=d(e,n);for(var
r=0;r<n;r+=1)e[r]=255&t[r];return e}function c(e,t){var n=0|m(t.length);e=d(e,n);for(var
r=0;r<n;r+=1)e[r]=255&t[r];return e}function p(e,t){return
i.TYPED_ARRAY_SUPPORT?(t.byteLength,e=i._augment(new Uint8Array(t))):e=c(e,new
Uint8Array(t),e)}function h(e,t){var n=0|m(t.length);e=d(e,n);for(var r=0;r<n;r+=1)e[r]=255&t[r];return e}function
f(e,t){var n,r=0;"Buffer"===t.type&&Q(t.data)&&(n=t.data,r=0|m(n.length)),e=d(e,r);for(var
i=0;i<r;i+=1)e[i]=255&n[i];return e}function d(e,t){i.TYPED_ARRAY_SUPPORT?e=i._augment(new
Uint8Array(t)):e.length=t,e._isBuffer=!0;var
n=0!==(t&&t<=i.poolSize)>>>1;return n&&(e.parent=G),e}function m(e){if(e>=r())throw new
RangeError("Attempt to allocate Buffer larger than maximum size: 0x"+r().toString(16)+" bytes");return
0|e}function g(e,t){if(!(this instanceof g))return new g(e,t);var n=new i(e,t);return delete n.parent,n}function
y(e,t){"string"!==typeof e&&(e=""+e);var n=e.length;if(0===n)return 0;for(var
r=!1;;)switch(t){case"ascii":case"binary":case"raw":case"raws":return n;case"utf8":case"utf-8":return
$(e).length;case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return 2*n;case"hex":return
n>>>1;case"base64":return H(e).length;default:if(r)return $(e).length;t=""+t.toLowerCase(),r=!0}}function
v(e,t,n){var r=!1;if(t=0|t,n=void
0===n||n===1/0?this.length:0|n,e||(e="utf8"),t<0&&(t=0),n>this.length&&(n=this.length),n<=t)return"";for(;)switc
h(e){case"hex":return C(this,t,n);case"utf8":case"utf-8":return E(this,t,n);case"ascii":return
k(this,t,n);case"binary":return T(this,t,n);case"base64":return
j(this,t,n);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return I(this,t,n);default:if(r)throw new
TypeError("Unknown encoding: "+e);e=(e+"").toLowerCase(),r=!0}}function b(e,t,n,r){n=Number(n)||0;var
i=e.length-n;r?(r=Number(r),r>i&&(r=i)):r=i;var a=t.length;if(a%2!==0)throw new Error("Invalid hex
string");r>a/2&&(r=a/2);for(var o=0;o<r;o++){var s=parseInt(t.substr(2*o,2),16);if(isNaN(s))throw new
Error("Invalid hex string");e[n+o]=s}return o}function w(e,t,n,r){return Y($(t,e.length-n),e,n,r)}function

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_(e,t,n,r){return Y(F(t),e,n,r)}function x(e,t,n,r){return _(e,t,n,r)}function A(e,t,n,r){return Y(H(t),e,n,r)}function
S(e,t,n,r){return Y(V(t,e.length-n),e,n,r)}function j(e,t,n){return
0===t&&n===e.length?J.fromByteArray(e):J.fromByteArray(e.slice(t,n))}function
E(e,t,n){n=Math.min(e.length,n);for(var r=[],i=t;i<n;){var
a=e[i],o=null,s=a>239?4:a>223?3:a>191?2:1;if(i+s<=n){var l,u,c,p;switch(s){case 1:a<128&&(o=a);break;case
2:l=e[i+1],128===(192&l)&&(p=(31&a)<<6|63&l,p>127&&(o=p));break;case
3:l=e[i+1],u=e[i+2],128===(192&l)&&128===(192&u)&&(p=(15&a)<<12|(63&l)<<6|63&u,p>2047&&(p<55296|
p>57343)&&(o=p));break;case
4:l=e[i+1],u=e[i+2],c=e[i+3],128===(192&l)&&128===(192&u)&&128===(192&c)&&(p=(15&a)<<18|(63&l)<<
12|(63&u)<<6|63&c,p>65535&&p<1114112&&(o=p))}null===o?(o=65533,s=1):o>65535&&(o-
=65536,r.push(o>>>10&1023|55296),o=56320|1023&o),r.push(o),i+=s}return O(r)}function O(e){var
t=e.length;if(t<=K)return String.fromCharCode.apply(String,e);for(var
n="",r=0;r<t;n+=String.fromCharCode.apply(String,e.slice(r,r+=K)));return n}function k(e,t,n){var
r="";n=Math.min(e.length,n);for(var i=t;i<n;i++)r+=String.fromCharCode(127&e[i]);return r}function T(e,t,n){var
r="";n=Math.min(e.length,n);for(var i=t;i<n;i++)r+=String.fromCharCode(e[i]);return r}function C(e,t,n){var
r=e.length;(!t|t<0)&&(t=0),(!n|n<0|n>r)&&(n=r);for(var i="",a=t;a<n;a++)i+=z(e[a]);return i}function
I(e,t,n){for(var r=e.slice(t,n),i="",a=0;a<r.length;a+=2)i+=String.fromCharCode(r[a]+256*r[a+1]);return
i}function D(e,t,n){if(e%1!==(0|e<0))throw new RangeError("offset is not uint");if(e+t>n)throw new
RangeError("Trying to access beyond buffer length")}function L(e,t,n,r,a,o){if(!i.isBuffer(e))throw new
TypeError("buffer must be a Buffer instance");if(t>a|t<o)throw new RangeError("value is out of
bounds");if(n+r>e.length)throw new RangeError("index out of range")}function
M(e,t,n,r){t<0&&(t=65535+t+1);for(var i=0,a=Math.min(e.length-n,2);i<a;i++)e[n+i]=(t&255<<8*(r?i:1-
i))>>>8*(r?i:1-i)}function R(e,t,n,r){t<0&&(t=4294967295+t+1);for(var i=0,a=Math.min(e.length-
n,4);i<a;i++)e[n+i]=t>>>8*(r?i:3-i)&255}function U(e,t,n,r,i,a){if(t>i|t<a)throw new RangeError("value is out of
bounds");if(n+r>e.length)throw new RangeError("index out of range");if(n<0)throw new RangeError("index out of
range")}function P(e,t,n,r,i){return i|U(e,t,n,4,3.4028234663852886e38,-
3.4028234663852886e38),W.write(e,t,n,r,23,4),n+4}function q(e,t,n,r,i){return
i|U(e,t,n,8,1.7976931348623157e308,-1.7976931348623157e308),W.write(e,t,n,r,52,8),n+8}function
B(e){if(e=N(e).replace(Z,""),e.length<2)return "";for(;e.length%4!==(0|e+= "=");return e}function N(e){return
e.trim?e.trim():e.replace(/^\s+|\s+$/,"")}function z(e){return e<16?"0"+e.toString(16):e.toString(16)}function
$(e,t){t=t|1/0;for(var
n,r=e.length,i=null,a=[],o=0;o<r;o++){if(n=e.charCodeAt(o),n>55295&&n<57344){if(!i){if(n>56319){(t=3)>-
1&&a.push(239,191,189);continue}if(o+1===r){(t=3)>-
1&&a.push(239,191,189);continue}i=n;continue}if(n<56320){(t=3)>-1&&a.push(239,191,189),i=n;continue}n=i-
55296<<10|n-56320|65536}else i&&(t=3)>-1&&a.push(239,191,189);if(i=null,n<128){if((t-
=1)<0)break;a.push(n)}else if(n<2048){if((t=2)<0)break;a.push(n>>6|192,63&n|128)}else if(n<65536){if((t-
=3)<0)break;a.push(n>>12|224,n>>6&63|128,63&n|128)}else{if(!(n<1114112))throw new Error("Invalid code
point");if((t=4)<0)break;a.push(n>>18|240,n>>12&63|128,n>>6&63|128,63&n|128)}return a}function
F(e){for(var t=[],n=0;n<e.length;n++)t.push(255&e.charCodeAt(n));return
t}function V(e,t){for(var n,r,i,a=[],o=0;o<e.length&&!(t-
=2)<0;o++)n=e.charCodeAt(o),r=n>>8,i=n%256,a.push(i),a.push(r);return a}function H(e){return
J.toByteArray(B(e))}function Y(e,t,n,r){for(var i=0;i<r&&!(i+n>=t.length||i>=e.length);i++)t[i+n]=e[i];return i}var
J=e("base64-js"),W=e("ieee754"),Q=e("is-
array");n.Buffer=i,n.SlowBuffer=g,n.INSPECT_MAX_BYTES=50,i.poolSize=8192;var
G={};i.TYPED_ARRAY_SUPPORT=function(){function e(){}try{var t=new Uint8Array(1);return
t.foo=function(){return 42},t.constructor=e,42===t.foo()&&t.constructor===e&&"function"===typeof
t.subarray&&0===t.subarray(1,1).byteLength}catch(n){return!1}}(),i.isBuffer=function(e){return!(null===e||!e._isB
uffer)},i.compare=function(e,t){if(!i.isBuffer(e)||!i.isBuffer(t))throw new TypeError("Arguments must be

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Buffers");if(e===t)return 0;for(var n=e.length,r=t.length,a=0,o=Math.min(n,r);a<o&&e[a]===t[a];)++a;return
a!==o&&(n=e[a],r=t[a]),n<r?-
1:r<n?1:0},i.isEncoding=function(e){switch(String(e).toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"binary":case"base64":case"raw":case"ucs2":case"ucs-2":case"utf16le":case"utf-
16le":return!0;default:return!1}},i.concat=function(e,t){if(!Q(e))throw
new TypeError("list argument must be an Array of Buffers.");if(0===e.length)return new i(0);var n;if(void
0===t)for(t=0,n=0;n<e.length;n++)t+=e[n].length;var r=new i(t),a=0;for(n=0;n<e.length;n++){var
o=e[n];o.copy(r,a),a+=o.length}return r},i.byteLength=y,i.prototype.length=void 0,i.prototype.parent=void
0,i.prototype.toString=function(){var e=0|this.length;return
0===e?"":0===arguments.length?E(this,0,e):v.apply(this,arguments)},i.prototype.equals=function(e){if(!i.isBuffer(
e))throw new TypeError("Argument must be a Buffer");return
this===e||0===i.compare(this,e)},i.prototype.inspect=function(){var e="",t=n.INSPECT_MAX_BYTES;return
this.length>0&&(e=this.toString("hex",0,t).match(/.{2}/g).join(" "),this.length>t&&(e+=" ... ")), "<Buffer
"+e+">"},i.prototype.compare=function(e){if(!i.isBuffer(e))throw
new TypeError("Argument must be a Buffer");return
this===e?0:i.compare(this,e)},i.prototype.indexOf=function(e,t){function n(e,t,n){for(var r=-
1,i=0;n+i<e.length;i++)if(e[n+i]===t[r===-1?0:i-r]){if(r===-1&&(r=i),i-r+1===t.length)return n+r}else r=-
1;return-1}if(t>2147483647?t=2147483647:t<-2147483648&&(t=-2147483648),t>=0,0===this.length)return-
1;if(t>=this.length)return-1;if(t<0&&(t=Math.max(this.length+t,0)),"string"===typeof e)return 0===e.length?-
1:String.prototype.indexOf.call(this,e,t);if(i.isBuffer(e))return n(this,e,t);if("number"===typeof e)return
i.TYPED_ARRAY_SUPPORT&&"function"===Uint8Array.prototype.indexOf?Uint8Array.prototype.indexOf.call
(this,e,t):n(this,[e],t);throw new TypeError("val must be string, number or
Buffer")},i.prototype.get=function(e){return console.log(".get() is deprecated. Access using array indexes
instead."),this.readUInt8(e)},i.prototype.set=function(e,t){return console.log(".set() is deprecated. Access using
array indexes
instead."),this.writeUInt8(e,t)},i.prototype.write=function(e,t,n,r){if(void 0===t)r="utf8",n=this.length,t=0;else
if(void 0===n&&"string"===typeof t)r=t,n=this.length,t=0;else if(isFinite(t))t=0|t,isFinite(n)?(n=0|n,void
0===r&&(r="utf8")):(r=n,n=void 0);else{var i=r;r=t,t=0|n,n=i}var a=this.length-t;if((void
0===n||n>a)&&(n=a),e.length>0&&(n<0||t<0)||t>this.length)throw new RangeError("attempt to write outside buffer
bounds");r||(r="utf8");for(var o=!1;;)switch(r){case"hex":return b(this,e,t,n);case"utf8":case"utf-8":return
w(this,e,t,n);case"ascii":return _(this,e,t,n);case"binary":return x(this,e,t,n);case"base64":return
A(this,e,t,n);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return S(this,e,t,n);default:if(o)throw new
TypeError("Unknown encoding:
"+r);r=r.toLowerCase(),o=!0}},i.prototype.toJSON=function(){return{type:"Buffer",data:Array.prototype.slice
.call(this._arr||this,0)}};var K=4096;i.prototype.slice=function(e,t){var n=this.length;e=~~e,t=void
0===t?n:~~t,e<0?(e+=n,e<0&&(e=0)):e>n&&(e=n),t<0?(t+=n,t<0&&(t=0)):t>n&&(t=n),t<e&&(t=e);var
r;if(i.TYPED_ARRAY_SUPPORT)r=i._augment(this.subarray(e,t));else{var a=t-e;r=new i(a,(void 0));for(var
o=0;o<a;o++)r[o]=this[o+e]}return
r.length&&(r.parent=this.parent||this),r},i.prototype.readUIntLE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(
var r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return
r},i.prototype.readUIntBE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(var r=this[e+--
t],i=1;t>0&&(i*=256);)r+=this[e+--t]*i;return r},i.prototype.readUInt8=function(e,t){return
t||D(e,1,this.length),this[e]},i.prototype.readUInt16LE=function(e,t){return
t||D(e,2,this.length),this[e]|this[e+1]<<8},i.prototype.readUInt16BE=function(e,t){return
t||D(e,2,this.length),this[e]<<8|this[e+1]},i.prototype.readUInt32LE=function(e,t){return
t||D(e,4,this.length),(this[e]|this[e+1]<<8|this[e+2]<<16)+16777216*this[e+3]},i.prototype.readUInt32BE=function(
e,t){return
t||D(e,4,this.length),16777216*this[e]+(this[e+1]<<16|this[e+2]<<8|this[e+3])},i.prototype.readIntLE=function(e,t,n

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){e=0|e,t=0|t,n||D(e,t,this.length);for(var
r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return i*=128,r>=i&&(r-
=Math.pow(2,8*t)),r},i.prototype.readIntBE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(var
r=t,i=1,a=this[e+--r];r>0&&(i*=256);)a+=this[e+--r]*i;return i*=128,a>=i&&(a-
=Math.pow(2,8*t)),a},i.prototype.readInt8=function(e,t){return t||D(e,1,this.length),128&this[e]?(255-this[e]+1)*-
1:this[e]},i.prototype.readInt16LE=function(e,t){t||D(e,2,this.length);var n=this[e]|this[e+1]<<8;return
32768&n?4294901760|n:n},i.prototype.readInt16BE=function(e,t){t||D(e,2,this.length);var
n=this[e+1]|this[e]<<8;return 32768&n?4294901760|n:n},i.prototype.readInt32LE=function(e,t){return
t||D(e,4,this.length),this[e]|this[e+1]<<8|this[e+2]<<16|this[e+3]<<24},i.prototype.readInt32BE=function(e,t){return
t||D(e,4,this.length),this[e]<<24|this[e+1]<<16|this[e+2]<<8|this[e+3]},i.prototype.readFloatLE=function(e,t){return
t||D(e,4,this.length),W.read(this,e,!0,23,4)},i.prototype.readFloatBE=function(e,t){return
t||D(e,4,this.length),W.read(this,e,!1,23,4)},i.prototype.readDoubleLE=function(e,t){return
t||D(e,8,this.length),W.read(this,e,!0,52,8)},i.prototype.readDoubleBE=function(e,t){return
t||D(e,8,this.length),W.read(this,e,!1,52,8)},i.prototype.writeUIntLE=function(e,t,n,r){e+=e,t=0|t,n=0|n,r||L(this,e,t,n,
Math.pow(2,8*n),0);var i=1,a=0;for(this[t]=255&e;++a<n&&(i*=256);)this[t+a]=e/i&255;return
t+n},i.prototype.writeUIntBE=function(e,t,n,r){e+=e,t=0|t,n=0|n,r||L(this,e,t,n,Math.pow(2,8*n),0);var i=n-
1,a=1;for(this[t+i]=255&e;--i>=0&&(a*=256);)this[t+i]=e/a&255;return
t+n},i.prototype.writeUInt8=function(e,t,n){return
e+=e,t=0|t,n||L(this,e,t,1,255,0),i.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),this[t]=e,t+1},i.prototype.writeUI
nt16LE=function(e,t,n){return
e+=e,t=0|t,n||L(this,e,t,2,65535,0),i.TYPED_ARRAY_SUPPORT?(this[t]=e,this[t+1]=e>>>8):M(this,e,t,!0),t+2},i.p
rototype.writeUInt16BE=function(e,t,n){return
e+=e,t=0|t,n||L(this,e,t,2,65535,0),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=e):M(this,e,t,!1),t+2},i.p
rototype.writeUInt32LE=function(e,t,n){return
e+=e,t=0|t,n||L(this,e,t,4,4294967295,0),i.TYPED_ARRAY_SUPPORT?(this[t+3]=e>>>24,this[t+2]=e>>>16,this[t
+1]=e>>>8,this[t]=e):R(this,e,t,!0),t+4},i.prototype.writeUInt32BE=function(e,t,n){return
e+=e,t=0|t,n||L(this,e,t,4,4294967295,0),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this[t+2]
=e>>>8,this[t+3]=e):R(this,e,t,!1),t+4},i.prototype.writeIntLE=function(e,t,n,r){if(e+=e,t=0|t,!r){var
i=Math.pow(2,8*n-1);L(this,e,t,n,i-1,-i)}var
a=0,o=1,s=e<0?1:0;for(this[t]=255&e;++a<n&&(o*=256);)this[t+a]=(e/o>>0)-s&255;return
t+n},i.prototype.writeIntBE=function(e,t,n,r){if(e+=e,t=0|t,!r){var i=Math.pow(2,8*n-1);L(this,e,t,n,i-1,-i)}var a=n-
1,o=1,s=e<0?1:0;for(this[t+a]=255&e;--a>=0&&(o*=256);)this[t+a]=(e/o>>0)-s&255;return
t+n},i.prototype.writeInt8=function(e,t,n){return e+=e,t=0|t,n||L(this,e,t,1,127,-
128),i.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),e<0&&(e=255+e+1),this[t]=e,t+1},i.prototype.writeInt16LE
=function(e,t,n){return
e+=e,t=0|t,n||L(this,e,t,2,32767,-
32768),i.TYPED_ARRAY_SUPPORT?(this[t]=e,this[t+1]=e>>>8):M(this,e,t,!0),t+2},i.prototype.writeInt16BE=fu
nction(e,t,n){return e+=e,t=0|t,n||L(this,e,t,2,32767,-
32768),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=e):M(this,e,t,!1),t+2},i.prototype.writeInt32LE=fu
nction(e,t,n){return e+=e,t=0|t,n||L(this,e,t,4,2147483647,-
2147483648),i.TYPED_ARRAY_SUPPORT?(this[t]=e,this[t+1]=e>>>8,this[t+2]=e>>>16,this[t+3]=e>>>24):R(thi
s,e,t,!0),t+4},i.prototype.writeInt32BE=function(e,t,n){return e+=e,t=0|t,n||L(this,e,t,4,2147483647,-
2147483648),e<0&&(e=4294967295+e+1),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this[
t+2]=e>>>8,this[t+3]=e):R(this,e,t,!1),t+4},i.prototype.writeFloatLE=function(e,t,n){return
P(this,e,t,!0,n)},i.prototype.writeFloatBE=function(e,t,n){return
P(this,e,t,!1,n)},i.prototype.writeDoubleLE=function(e,t,n){return
q(this,e,t,!0,n)},i.prototype.writeDoubleBE=function(e,t,n){return
q(this,e,t,!1,n)},i.prototype.copy=function(e,t,n,r){if(n||(n=0),r||0===r||(r=this.length),t>=e.length&&(t=e.length),t|(t

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=0),r>0&&r<n&&(r=n),r===n)return 0;if(0===e.length||0===this.length)return 0;if(t<0)throw new
RangeError("targetStart out of bounds");if(n<0||n>=this.length)throw new RangeError("sourceStart out of
bounds");if(r<0)throw new RangeError("sourceEnd out of bounds");r>this.length&&(r=this.length),e.length-t<r-
n&&(r=e.length-t+n);var a,o=r-n;if(this===e&&n<t&&t<r)for(a=o-1;a>=0;a--e[a+t]=this[a+n];else
if(o<1e3||!i.TYPED_ARRAY_SUPPORT)for(a=0;a<o;a++)e[a+t]=this[a+n];else
e._set(this.subarray(n,n+o),t);return o},i.prototype.fill=function(e,t,n){if(e||(e=0),t||(t=0),n||(n=this.length),n<t)throw
new RangeError("end < start");if(n!==t&&0!==this.length){if(t<0||t>=this.length)throw new RangeError("start out
of bounds");if(n<0||n>this.length)throw new RangeError("end out of bounds");var r;if("number"===typeof
e)for(r=t;r<n;r++)this[r]=e;else{var i=$(e.toString()),a=i.length;for(r=t;r<n;r++)this[r]=i[r%a]}return
this}},i.prototype.toArrayBuffer=function(){if("undefined"!==typeof
Uint8Array){if(i.TYPED_ARRAY_SUPPORT)return new i(this).buffer;for(var e=new
Uint8Array(this.length),t=0,n=e.length;t<n;t+=1)e[t]=this[t];return e.buffer}throw new
TypeError("Buffer.toArrayBuffer not supported in this browser")};var X=i.prototype;i._augment=function(e){return
e.constructor=i,e._isBuffer=!0,e._set=e.set,e.get=X.get,e.set=X.set,e.write=X.write,e.toString=X.toString,e.toLocale
String=X.toString,e.toJSON=X.toJSON,e.equals=X.equals,e.compare=X.compare,e.indexOf=X.indexOf,e.copy=X.
copy,e.slice=X.slice,e.readUIntLE=X.readUIntLE,e.readUIntBE=X.readUIntBE,e.readUInt8=X.readUInt8,e.readUI
nt16LE=X.readUInt16LE,e.readUInt16BE=X.readUInt16BE,e.readUInt32LE=X.readUInt32LE,e.readUInt32BE=X.
readUInt32BE,e.readIntLE=X.readIntLE,e.readIntBE=X.readIntBE,e.readInt8=X.readInt8,e.readInt16LE=X.readInt
16LE,e.readInt16BE=X.readInt16BE,e.readInt32LE=X.readInt32LE,e.readInt32BE=X.readInt32BE,e.readFloatLE=
X.readFloatLE,e.readFloatBE=X.readFloatBE,e.readDoubleLE=X.readDoubleLE,e.readDoubleBE=X.readDoubleB
E,e.writeUInt8=X.writeUInt8,e.writeUIntLE=X.writeUIntLE,e.writeUIntBE=X.writeUIntBE,e.writeUInt16LE=X.w
riteUInt16LE,e.writeUInt16BE=X.writeUInt16BE,e.writeUInt32LE=X.writeUInt32LE,e.writeUInt32BE=X.writeUI
nt32BE,e.writeIntLE=X.writeIntLE,e.writeIntBE=X.writeIntBE,e.writeInt8=X.writeInt8,e.writeInt16LE=X.writeInt
16LE,e.writeInt16BE=X.writeInt16BE,e.writeInt32LE=X.writeInt32LE,e.writeInt32BE=X.writeInt32BE,e.writeFlo
atLE=X.writeFloatLE,e.writeFloatBE=X.writeFloatBE,e.writeDoubleLE=X.writeDoubleLE,e.writeDoubleBE=X.w
riteDoubleBE,e.fill=X.fill,e.inspect=X.inspect,e.toArrayBuffer=X.toArrayBuffer,e};var
Z=/[^\u009A-Za-z_]/g,{ "base64-js":15,ieec754:16,"is-array":17}},15:[function(e,t,n){var
r="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+";!function(e){ "use
strict";function t(e){var t=e.charCodeAt(0);return
t===o||t===p?62:t===s||t===h?63:t<1?-1:t<1+10?t-1+26+26:t<c+26?t-c:t<u+26?t-u+26:void 0}function
n(e){function n(e){u[p++] =e}var r,i,o,s,l,u;if(e.length%4>0)throw new Error("Invalid string. Length must be a
multiple of 4");var c=e.length;l=""===e.charAt(c-2)?2:""===e.charAt(c-1)?1:0,u=new a(3*e.length/4-
1),o=l>0?e.length-4:e.length;var
p=0;for(r=0,i=0;r<o;r+=4,i+=3)s=t(e.charAt(r))<<18|t(e.charAt(r+1))<<12|t(e.charAt(r+2))<<6|t(e.charAt(r+3)),n((1
6711680&s)>>16),n((65280&s)>>8),n(255&s));return
2===l?(s=t(e.charAt(r))<<2|t(e.charAt(r+1))>>4,n(255&s)):1===l&&(s=t(e.charAt(r))<<10|t(e.charAt(r+1))<<4|t(e.
charAt(r+2))>>2,n(s>>8&255),n(255&s)),u}function i(e){function t(e){return r.charAt(e)}function n(e){return
t(e>>18&63)+t(e>>12&63)+t(e>>6&63)+t(63&e)}var i,a,o,s=e.length%3,l=""";for(i=0,o=e.length-
s;i<o;i+=3)a=(e[i]<<16)+(e[i+1]<<8)+e[i+2],l+=n(a);switch(s){ case 1:a=e[e.length-
1],l+=t(a>>2),l+=t(a<<4&63),l+="";break;case 2:a=(e[e.length-2]<<8)+e[e.length-
1],l+=t(a>>10),l+=t(a>>4&63),l+=t(a<<2&63),l+=""}return
l}var a="undefined"!==typeof
Uint8Array?Uint8Array:Array,o="+".charCodeAt(0),s="/" .charCodeAt(0),l="0".charCodeAt(0),u="a".charCodeAt(
0),c="A".charCodeAt(0),p="-
".charCodeAt(0),h="_".charCodeAt(0);e.toByteArray=n,e.fromByteArray=i)("undefined"===typeof
n?this.base64js={}:n)},{}},16:[function(e,t,n){n.read=function(e,t,n,r,i){var a,o,s=8*i-r-1,l=(1<<s)-1,u=l>>1,c=-
7,p=n?i-1:0,h=n?-1:1,f=e[t+p];for(p+=h,a=f&(1<<-c)-1,f>>=-c,c+=s;c>0;a=256*a+e[t+p],p+=h,c-=
8);for(o=a&(1<<-c)-1,a>>=-c,c+=r;c>0;o=256*o+e[t+p],p+=h,c-=8);if(0===a)a=1-u;else{if(a===l)return
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o?NaN:(f?-1:1)*(1/0);o+=Math.pow(2,r),a=-u}return(f?-1:1)*o*Math.pow(2,a-r)},n.write=function(e,t,n,r,i,a){var
o,s,l,u=8*a-i-1,c=(1<<u)-1,p=c>>1,h=23===i?Math.pow(2,-24)-Math.pow(2,-77):0,f=r?0:a-1,d=r?1:-
1,m=t<0||0===t&&1/t<0?1:0;for(t=Math.abs(t),isNaN(t)||t===1/0?(s=isNaN(t)?1:0,o=c):(o=Math.floor(Math.log(t)/
Math.LN2),t*(l=Math.pow(2,-o))<1&&(o--,l*=2),t+=o+p>=1?h/l:h*Math.pow(2,1-
p),t*l>=2&&(o++,l/=2),o+p>=c?(s=0,o=c):o+p>=1?(s=(t*1-1)*Math.pow(2,i),o+=p):(s=t*Math.pow(2,p-
1)*Math.pow(2,i),o=0));i>=8;e[n+f]=255&o,s,f+=d,s/=256,i-
=8);for(o=0<<i|s,u+=i;u>0;e[n+f]=255&o,f+=d,o/=256,u-=8);e[n+f-d]=128*m}},{}},17:[function(e,t,n){var
r=Array.isArray,i=Object.prototype.toString;t.exports=r||function(e){return!!e&&"[object
Array]"==i.call(e)},{}},18:[function(e,t,n){!function(){!function e(t,n,r,i){return this instanceof
e?(this.domain=t||void 0,this.path=n||"/",this.secure=!!r,this.script=!!i,this):new e(t,n,r,i)}function t(e,n,r){return e
instanceof t?e:this instanceof
t?(this.name=null,this.value=null,this.expiration_date=1/0,this.path=String(r||"/"),this.explicit_path=!1,this.domain=
n||null,this.explicit_domain=!1,this.secure=!1,this.noscript=!1,e&&this.parse(e,n,r),this):new t(e,n,r)}function
r(){var e,n,i;return this instanceof r?(e=Object.create(null),this.setCookie=function(r,a,o){var s,l;if(r=new
t(r,a,o),s=r.expiration_date<=Date.now(),void
0!==(e[r.name])){for(n=e[r.name],l=0;l<n.length;l+=1)if(i=n[l],i.collidesWith(r))return
s?(n.splice(l,1),0===n.length&&delete
e[r.name],!1):(n[l]=r,r);return!s&&(n.push(r),r)}return!s&&(e[r.name]=[r],e[r.name])},this.getCookie=function(t,r){
var i,a;if(n=e[t])for(a=0;a<n.length;a+=1)if(i=n[a],i.expiration_date<=Date.now())0===n.length&&delete
e[i.name];else if(i.matches(r))return i},this.getCookies=function(t){var n,r,i=[];for(n in
e)r=this.getCookie(n,t),r&&i.push(r);return i.toString=function(){return
i.join(";")},i.toString=function(){return i.map(function(e){return e.toString()}).join(";")},i,this):new
r}n.CookieAccessInfo=e,n.Cookie=t,t.prototype.toString=function(){var e=[this.name+"="+this.value];return
this.expiration_date!==1/0&&e.push("expires="+new
Date(this.expiration_date).toGMTString()),this.domain&&e.push("domain="+this.domain),this.path&&e.push("pat
h="+this.path),this.secure&&e.push("secure"),this.noscript&&e.push("httponly"),e.join(";
")},t.prototype.toString=function(){return
this.name+"="+this.value};var i=/[:](?=\s*[a-zA-Z0-9_\-]+\s*[=])/g;t.prototype.parse=function(e,n,r){if(this
instanceof t){var
i,a=e.split(";").filter(function(e){return!!e}),o=a[0].match(/(?:^|=)([s\S]*)/),s=o[1],l=o[2];for(this.name=s,this.val
ue=l,i=1;i<a.length;i+=1)switch(o=a[i].match(/(?:^|=)(?:[s\S]*)?/),s=o[1].trim().toLowerCase(),
l=o[2],s){case"httponly":this.noscript=!0;break;case"expires":this.expiration_date=l?Number(Date.parse(l)):1/0;brea
k;case"path":this.path=l?l.trim():"",this.explicit_path=!0;break;case"domain":this.domain=l?l.trim():"",this.explicit_
domain=!this.domain;break;case"secure":this.secure=!0}return
this.explicit_path||(this.path=r||"/"),this.explicit_domain||(this.domain=n),this}return(new
t).parse(e,n,r)},t.prototype.matches=function(e){return!(this.noscript&&e.script||this.secure&&!e.secure||!this.collid
esWith(e)),t.prototype.collidesWith=function(e){if(this.path&&!e.path||this.domain&&!e.domain)return!1;if(this.p
ath&&0!==(e.path.indexOf(this.path))return!1;if(this.explicit_path&&0!==(e.path.indexOf(this.path))return!1;var
t=e.domain&&e.domain.replace(/^\./,""),n=this.domain&&this.domain.replace(/^\./,"");if(n===t)return!0;if(n){if
(!this.explicit_domain)return!1;var r=t.indexOf(n);return r!==-1&&r===t.length-
n.length}return!0},n.CookieJar=r,r.prototype.setCookies=function(e,n,r){e=Array.isArray(e)?e.split(i);var
a,o,s=[];for(e=e.map(function(e){return new
t(e,n,r)}),a=0;a<e.length;a+=1)o=e[a],this.setCookie(o,n,r)&&s.push(o);return s}},{},19:[function(e,t,n){!function e(t,n){
"use strict";var r=e("./lib/js-yaml.js");t.exports=r},{"./lib/js-yaml.js":20}],20:[function(e,t,n){!function e(t,n){
"use strict";function
r(e){return function(){throw new Error("Function "+e+" is deprecated and cannot be used.")}}var i=e("./js-
yaml/loader"),a=e("./js-yaml/dumper");t.exports.Type=e("./js-yaml/type"),t.exports.Schema=e("./js-
yaml/schema"),t.exports.FAILSAFE_SCHEMA=e("./js-yaml/schema/failsafe"),t.exports.JSON_SCHEMA=e("./js-
yaml/schema/json"),t.exports.CORE_SCHEMA=e("./js-

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yaml/schema/core"),t.exports.DEFAULT_SAFE_SCHEMA=e("./js-
yaml/schema/default_safe"),t.exports.DEFAULT_FULL_SCHEMA=e("./js-
yaml/schema/default_full"),t.exports.load=i.load,t.exports.loadAll=i.loadAll,t.exports.safeLoad=i.safeLoad,t.exports
.safeLoadAll=i.safeLoadAll,t.exports.dump=a.dump,t.exports.safeDump=a.safeDump,t.exports.YAMLException=e(
"./js-yaml/exception"),t.exports.MINIMAL_SCHEMA=e("./js-
yaml/schema/failsafe"),t.exports.SAFE_SCHEMA=e("./js-
yaml/schema/default_safe"),t.exports.DEFAULT_SCHEMA=e("./js-
yaml/schema/default_full"),t.exports.scan=r("scan"),t.exports.parse=r("parse"),t.exports.compose=r("compose"),t.ex
ports.addConstructor=r("addConstructor"),{"/js-yaml/dumper":22,"/js-yaml/exception":23,"/js-
yaml/loader":24,"/js-yaml/schema":26,"/js-yaml/schema/core":27,"/js-yaml/schema/default_full":28,"/js-
yaml/schema/default_safe":29,"/js-yaml/schema/failsafe":30,"/js-yaml/schema/json":31,"/js-
yaml/type":32}],21:[function(e,t,n){ "use
strict";function r(e){return"undefined"===typeof
e||null===e}function i(e){return"object"===typeof e&&null!==(e)}function a(e){return
Array.isArray(e)?r(e)?[:][e]}function o(e,t){var
n,r,i,a;if(t)for(a=Object.keys(t),n=0,r=a.length;n<r;n+=1)i=a[n],e[i]=t[i];return e}function s(e,t){var
n,r="";for(n=0;n<t;n+=1)r+=e;return r}function l(e){return
0===e&&Number.NEGATIVE_INFINITY===1/e}t.exports.isNothing=r,t.exports.isObject=i,t.exports.toArray=a,t
.exports.repeat=s,t.exports.isNegativeZero=l,t.exports.extend=o},{}],22:[function(e,t,n){ "use strict";function
r(e,t){ var
n,r,i,a,o,s,l;if(null===t)return{ };for(n={ },r=Object.keys(t),i=0,a=r.length;i<a;i+=1)o=r[i],s=String(t[o]),"!"===o.sli
ce(0,2)&&(o="tag:yaml.org,2002:"+o.slice(2)),l=e.compiledTypeMap[o],l&&R.call(l.styleAliases,s)&&(s=l.styleAl
ias[s]),n[o]=s;return n}function i(e){ var t,n,r;if(t=e.toString(16).toUpperCase(),e<=255)n="x",r=2;else
if(e<=-65535)n="u",r=4;else{if(!(e<=-4294967295))throw new I("code point within a string may not be greater than
0xFFFFFFFF");n="U",r=8}return"\\"+n+C.repeat("0",r-t.length)+t}function
a(e){ this.schema=e.schema||D,this.indent=Math.max(1,e.indent||2),this.skipInvalid=e.skipInvalid||1,this.flowLevel=
C.isNothing(e.flowLevel)?-
1:e.flowLevel,this.styleMap=r(this.schema,e.styles||null),this.sortKeys=e.sortKeys||1,this.lineWidth=e.lineWidth||8
0,this.noRefs=e.noRefs||1,this.noCompatMode=e.noCompatMode||1,this.implicitTypes=this.schema.compiledImpl
icit,this.explicitTypes=this.schema.compiledExplicit,this.tag=null,this.result="",this.duplicates=[],this.usedDuplicate
s=null}function o(e,t){for(var n,r=C.repeat(" ",t),i=0,a=-1,o="",s=e.length;i<s;)a=e.indexOf("\n",i),a===-
1?(n=e.slice(i,i+s):(n=e.slice(i,a+1),i=a+1),n.length&&"\n"!==(o+=r),o+=n;return o}function
s(e,t){return"\n"+C.repeat(" ",e.indent*t)}function l(e,t){ var
n,r,i;for(n=0,r=e.implicitTypes.length;n<r;n+=1)if(i=e.implicitTypes[n],i.resolve(t))return!0;return!1}function
u(e){ return e===q||e===U}function c(e){ return
32<=e&&e<=126||161<=e&&e<=55295&&8232!==(e&&8233!==(e||57344<=e&&e<=65533&&65279!==(e||65536<
=e&&e<=1114111)}function
p(e){ return c(e)&&65279!==(e&&e!==(Y&&e!==(X&&e!==(Z&&e!==(te&&e!==(re&&e!==(W&&e!==(z)function
h(e){ return
c(e)&&65279!==(e&&!u(e)&&e!==(J&&e!==(G&&e!==(W&&e!==(Y&&e!==(X&&e!==(Z&&e!==(te&&e!==(re&&e!
==z&&e!==(F&&e!==(H&&e!==(B&&e!==(ne&&e!==(Q&&e!==(V&&e!==(N&&e!==( $&&e!==(K&&e!==(ee}functio
n f(e,t,n,r,i){ var a,o,s=!1,l=!1,f=r!==-1,d=-1,m=h(e.charCodeAtAt(0))&&!u(e.charCodeAtAt(e.length-
1));if(t)for(a=0;a<e.length;a++){ if(o=e.charCodeAtAt(a),!c(o))return
ce;m=m&&p(o)}else{for(a=0;a<e.length;a++){ if(o=e.charCodeAtAt(a),o===P)s=!0,f&&(l=!|a-d-1>r&&"
"!==(e[d+1],d=a);else if(!c(o))return ce;m=m&&p(o)}l=!|f&&a-d-1>r&&" "!==(e[d+1]}return s||l?"
"===e[0]&&n>9?ce:l?ue:le:m&&!i(e)?oe:se}function d(e,t,n,r){e.dump=function(){function i(t){return
l(e,t)}if(0===t.length)return"";if(!e.noCompatMode&&ae.indexOf(t)!==-1)return""+t+"";var
a=e.indent*Math.max(1,n),s=e.lineWidth===-1?-1:Math.max(Math.min(e.lineWidth,40),e.lineWidth-

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a),u=r||e.flowLevel>-1&&n>=e.flowLevel;switch(f(t,u,e.indent,s,i)){case
oe:return t;case se:return ""+t.replace(/'g, """"+""";case le:return ""+m(t,e.indent)+g(o(t,a));case
ue:return ">" +m(t,e.indent)+g(o(y(t,s),a));case ce:return ""+b(t,s)+""";default:throw new I("impossible error: invalid
scalar style")})function m(e,t){var n="" ""==e[0]?String(t):""",r=""n""==e[e.length-1],i=r&&("n""==e[e.length-
2])||"n""==e,a=i?"+"r?":":-";return n+a+"n"}function g(e){return ""n""==e[e.length-1]?e.slice(0,-1):e}function
y(e,t){for(var n,r,i=/(\n+)([^\n]*)/g,a=function(){var n=e.indexOf("\n");return n=n!==-
1?n:e.length,i.lastIndex=n,v(e.slice(0,n),t)}(),o=""n""==e[0]||"" ""==e[0];r=i.exec(e);){var s=r[1],l=r[2];n=""
""==l[0],a+=s+(o||n)"" ""==l?"":":\n")+v(l,t),o=n}return a}function v(e,t){if(" ""==e||"" ""==e[0])return e;for(var
n,r,i=/[^\n]/g,a=0,o=0,s=0,l=""",n=i.exec(e);s=n.index,s-a>t&&(r=o>a?o:s,l+="\n"+e.slice(a,r),a=r+1),o=s;return
l+="\n",l+=e.length-a>t&&o>a?e.slice(a,o)+"n"+e.slice(o+1):e.slice(a),l.slice(1)}function
b(e){for(var t,n,r=""",a=0;a<e.length;a++)t=e.charCodeAtAt(a),n=ie[t],r+=!n&&c(t)?e[a]:n||i(t);return r}function
w(e,t,n){var r,i,a=""",o=e.tag;for(r=0,i=n.length;r<i;r+=1)j(e,t,n[r],!1,!1)&&(0!==(r&&0==i||o+=s(e,t)),o+="
",a+=e.dump);e.tag=o,e.dump="["+a+"]"}function _(e,t,n,r){var
i,a,o=""",l=e.tag;for(i=0,a=n.length;i<a;i+=1)j(e,t+1,n[i],!0,!0)&&(r&&0==i||o+=s(e,t)),o+="
"+e.dump);e.tag=l,e.dump=o||""}function x(e,t,n){var
r,i,a,o,s,l=""",u=e.tag,c=Object.keys(n);for(r=0,i=c.length;r<i;r+=1)s=""",0!==(r&&(s+=
",a=c[r],o=n[a],j(e,t,a,!1,!1)&&(e.dump.length>1024&&(s+="? "),s+=e.dump+"
".j(e,t,o,!1,!1)&&(s+=e.dump,l+=s));e.tag=u,e.dump="{"+l+""}"}function A(e,t,n,r){var
i,a,o,l,u,c,p=""",h=e.tag,f=Object.keys(n);if(e.sortKeys===!0)f.sort();else if("function"===typeof
e.sortKeys)f.sort(e.sortKeys);else if(e.sortKeys)throw new I("sortKeys must be a boolean or a
function");for(i=0,a=f.length;i<a;i+=1)c=""",r&&0==i||c+=s(e,t),o=f[i],l=n[o],j(e,t+1,o,!0,!0)&&(u=null!==(e.ta
g&&"?"!==(e.tag||e.dump&&e.dump.length>1024,u&&(c+=e.dump&&P==e.dump.charCodeAtAt(0)?"":":
"),c+=e.dump,u&&(c+=s(e,t)),j(e,t+1,l,!0,u)&&(c+=e.dump&&P==e.dump.charCodeAtAt(0)?"":":
",c+=e.dump,p+=c));e.tag=h,e.dump=p||""}function S(e,t,n){var
r,i,a,o,s,l;for(i=n?e.explicitTypes:e.implicitTypes,a=0,o=i.length;a<o;a+=1)if(s=i[a],(s instanceof|s.predicate)&&(!s
 instanceof|"object"===typeof t&&t instanceof
s instanceof)&&(!s.predicate||s.predicate(t)))if(e.tag=n?s.tag:"?",s.represent){if(l=e.styleMap[s.tag]||s.defaultStyle,
"[object Function]"===M.call(s.represent))r=s.represent(t,l);else if(!R.call(s.represent,l))throw new I("<" +s.tag+>
tag resolver accepts not "+l+" style');r=s.represent[l](t,l)}e.dump=r}return!0}return!1}function
j(e,t,n,r,i,a){e.tag=null,e.dump=n,S(e,n,!1)||S(e,n,!0);var
o=M.call(e.dump);r&&(r=e.flowLevel<0||e.flowLevel>t);var s,l,u="[object Object]"===o||"[object
Array]"===o;if(u&&(s=e.duplicates.indexOf(n),l=s!==-
1),(null!==(e.tag&&"?"!==(e.tag||l)!==(e.indent&&t>0)&&(i=!1),l&&e.usedDuplicates[s])e.dump="*ref_" +s;else{if
(u&&l&&!e.usedDuplicates[s]&&(e.usedDuplicates[s]=!0),"[object
Object]"===o)r&&0!==(Object.keys(e.dump).length?(A(e,t,e.dump,i),l&&(e.dump="&ref_" +s+e.dump)):(x(e,t,e.du
mp),l&&(e.dump="&ref_" +s+ " "+e.dump));else if("[object
Array]"===o)r&&0!==(e.dump.length?(_(e,t,e.dump,i),l&&(e.dump="&ref_" +s+e.dump)):(w(e,t,e.dump),l&&(e.du
mp="&ref_" +s+ " "+e.dump));else if("[object String]"===o){if(e.skipInvalid)return!1;throw new I("unacceptable
kind of an object to dump
"+o)?"?"!==(e.tag&&d(e,e.dump,t,a))null!==(e.tag&&"?"!==(e.tag&&(e.dump="!" +e.tag+">
"+e.dump)}return!0}function E(e,t){var
n,r,i=[],a=[];for(O(e,i,a),n=0,r=a.length;n<r;n+=1)t.duplicates.push(i[a[n]]);t.usedDuplicates=new Array(r)}function
O(e,t,n){var r,i,a;if(null!==(e&&"object"===typeof e)if(i=t.indexOf(e),i!==(n.indexOf(i)-1)&&n.push(i);else
if(t.push(e),Array.isArray(e))for(i=0,a=e.length;i<a;i+=1)O(e[i],t,n);else
for(r=Object.keys(e),i=0,a=r.length;i<a;i+=1)O(e[r[i]],t,n)}function k(e,t){t=t||{};var
n=new a(t);return n.noRefs||E(e,n),j(n,0,e,!0,!0)?n.dump+"\n":""}function T(e,t){return
k(e,C.extend({schema:L},t))}var
C=e("./common"),I=e("./exception"),D=e("./schema/default_full"),L=e("./schema/default_safe"),M=Object.prototype

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e.toString,R=Object.prototype.hasOwnProperty,U=9,P=10,q=32,B=33,N=34,z=35,$=37,F=38,V=39,H=42,Y=44,J=
45,W=58,Q=62,G=63,K=64,X=91,Z=93,ee=96,te=123,ne=124,re=125,ie={ };ie[0]="\0",ie[7]="\a",ie[8]="\b",ie[9]
="\t",ie[10]="\n",ie[11]="\v",ie[12]="\f",ie[13]="\r",ie[27]="\e",ie[34]="\\",ie[92]="\\",ie[133]="\\N",ie[160]="
\\_",ie[8232]="\\L",ie[8233]="\\P";var
ae=["y","Y","yes","Yes","YES","on","On","ON","n","N","no","No","NO","off","Off","OFF"],oe=1,se=2,le=3,ue=4
,ce=5;t.exports.dump=k,t.exports.safeDump=T},{"/common":21,"/exception":23,"/schema/default_full":28,"/sche
ma/default_safe":29}],23:[function(e,t,n){ "use strict";function
r(e,t){Error.call(this),Error.captureStackTrace?Error.captureStackTrace(this,this.constructor):this.stack=(new
Error).stack||"",this.name="YAMLEException",this.reason=e,this.mark=t,this.message=(this.reason||(unknown
reason"))+(this.mark?"
"+this.mark.toString():"")}r.prototype=Object.create(Error.prototype),r.prototype.constructor=r,r.prototype.toString
=function(e){ var t=this.name+ " ";return t+=this.reason||(unknown reason),"!e&&this.mark&&(t+="
"+this.mark.toString()),t,t.exports=r},{ }},24:[function(e,t,n){ "use strict";function r(e){ return
10===e||13===e}function i(e){ return 9===e||32===e}function a(e){ return
9===e||32===e||10===e||13===e}function o(e){ return 44===e||91===e||93===e||123===e||125===e}function
s(e){ var t;return 48<=e&&e<=57?e-48:(t=32|e,97<=t&&t<=102?t-97+10:-1)}function l(e){ return
120===e?2:117===e?4:85===e?8:0}function u(e){ return 48<=e&&e<=57?e-48:-1}function c(e){ return
48===e?"0":97===e?"
":98===e?"\b":116===e?"\t":9===e?"\t":110===e?"\n":118===e?"\x0B":102===e?"\f":114===e?"\r":101===e?"
":32===e?"
":34===e?"":47===e?"":92===e?"\\":78===e?"":95===e?"":76===e?"\u2028":80===e?"\u2029":""}function
p(e){ return e<=65535?String.fromCharCode(e):String.fromCharCode((e-65536>>10)+55296,(e-
65536&1023)+56320)}function
h(e,t){ this.input=e,this.filename=t.filename||null,this.schema=t.schema||V,this.onWarning=t.onWarning||null,this.leg
acy=t.legacy||!1,this.json=t.json||!1,this.listener=t.listener||null,this.implicitTypes=this.schema.compiledImplicit,this
.typeMap=this.schema.compiledTypeMap,this.length=e.length,this.position=0,this.line=0,this.lineStart=0,this.lineInd
ent=0,this.documents=[]}function f(e,t){ return new z(t,new $(e.filename,e.input,e.position,e.line,e.position-
e.lineStart))}function d(e,t){ throw f(e,t)}function m(e,t){ e.onWarning&&e.onWarning.call(null,f(e,t))}function
g(e,t,n,r){ var
i,a,o,s;if(t<n){ if(s=e.input.slice(t,n),r)for(i=0,a=s.length;i<a;i+=1)o=s.charCodeAtAt(i),9===o||32<=o&&o<=1114111|
|d(e,"expected valid JSON character");else Z.test(s)&&d(e,"the stream contains non-printable
characters");e.result+=s }function y(e,t,n,r){ var i,a,o,s;for(N.isObject(n)||d(e,"cannot
merge mappings; the provided source object is
unacceptable"),i=Object.keys(n),o=0,s=i.length;o<s;o+=1)a=i[o],H.call(t,a)||(!t[a]=n[a],r[a]=!0)}function
v(e,t,n,r,i,a){ var
o,s;if(i=String(i),null===t&&(t={ }),"tag:yaml.org,2002:merge"===r)if(Array.isArray(a))for(o=0,s=a.length;o<s;o+
=1)y(e,t,a[o],n);else y(e,t,a,n);else e.json||H.call(n,i)||H.call(t,i)||d(e,"duplicated mapping key"),t[i]=a,delete
n[i];return t}function b(e){ var
t;t=e.input.charCodeAtAt(e.position),10===t?e.position++:13===t?(e.position++,10===e.input.charCodeAtAt(e.position
)&&e.position++):d(e,"a line break is expected"),e.line+=1,e.lineStart=e.position}function w(e,t,n){ for( var
a=0,o=e.input.charCodeAtAt(e.position);0!==o;){ for(;i(o);o=e.input.charCodeAtAt(++e.position);if(t&&35===o)do
o=e.input.charCodeAtAt(++e.position);while(10!==o&&13===o&&0!==o);if(!r(o))break;for(b(e),o=e.input.charCodeAt
At(e.position),a++,e.lineIndent=0;32===o;)e.lineIndent++,o=e.input.charCodeAtAt(++e.position)}return n!==-
1&&0!==a&&e.lineIndent<n&&m(e,"deficient
indentation"),a}function _(e){ var t,n=e.position;return
t=e.input.charCodeAtAt(n),!(45!==t&&46!==t|t===e.input.charCodeAtAt(n+1)|t===e.input.charCodeAtAt(n+2)|(n+=3,t=e
.input.charCodeAtAt(n),0!==t&&!a(t)))}function x(e,t){ 1===t?e.result+=" ":t>1&&(e.result+=N.repeat("\n",t-
1))}function A(e,t,n){ var

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s,l,u,c,p,h,f,d,m,y=e.kind,v=e.result;if(m=e.input.charCodeAt(e.position),a(m)||o(m)||35===m||38===m||42===m||33
===m||124===m||62===m||39===m||34===m||37===m||64===m||96===m)return!1;if(((63===m||45===m)&&(l=e.i
nput.charCodeAt(e.position+1),a(l)||n&&o(l)))return!1;for(e.kind="scalar",e.result="",u=c=e.position,p=!1;0!==m;)
{if(58===m){if(l=e.input.charCodeAt(e.position+1),a(l)||n&&o(l))break}else
if(35===m){if(s=e.input.charCodeAt(e.position-
1),a(s))break}else{if(e.position===e.lineStart&&_(e)||n&&o(m))break;if(r(m)){if(h=e.line,f=e.lineStart,d=e.lineInd
ent,w(e,!1,-
1),e.lineIndent>=t){p=!0,m=e.input.charCodeAt(e.position);continue}e.position=c,e.line=h,e.lineStart=f,e.lineInden
t=d;break}}p&&(g(e,u,c,!1),x(e,e.line-
h),u=c=e.position,p=!1),i(m)||c=e.position+1,m=e.input.charCodeAt(++e.position)}return
g(e,u,c,!1),!e.result||(e.kind=y,e.result=v,!1)}function S(e,t){var
n,i,a;if(n=e.input.charCodeAt(e.position),39!==(n))return!1;for(e.kind="scalar",e.result="",e.position++,i=a=e.positio
n;0!==(n=e.input.charCodeAt(e.position));if(39===n){if(g(e,i,e.position,!0),n=e.input.charCodeAt(++e.position),3
9!==(n))return!0;i=a=e.position,e.position++}else
r(n)?(g(e,i,a,!0),x(e,w(e,!1,t)),i=a=e.position):e.position===e.lineStart&&_(e)?d(e,"unexpected end of the document
within a single quoted scalar):(e.position++,a=e.position);d(e,"unexpected end of the stream within a single quoted
scalar")}function j(e,t){var
n,i,a,o,u,c;if(c=e.input.charCodeAt(e.position),34!==(c))return!1;for(e.kind="scalar",e.result="",e.position++,n=i=e.p
osition;0!==(c=e.input.charCodeAt(e.position));if(34===c)return
g(e,n,e.position,!0),e.position++,!0;if(92===c){if(g(e,n,e.position,!0),c=e.input.charCodeAt(++e.position),r(c))w(e,!
1,t);else
if(c<256&&ie[c])e.result+=ae[c],e.position++;else if((u=l(c))>0){for(a=u,o=0;a>0;a--
)c=e.input.charCodeAt(++e.position),(u=s(c))>=0?o=(o<<4)+u:d(e,"expected hexadecimal
character");e.result+=p(o),e.position++}else d(e,"unknown escape sequence");n=i=e.position}else
r(c)?(g(e,n,i,!0),x(e,w(e,!1,t)),n=i=e.position):e.position===e.lineStart&&_(e)?d(e,"unexpected end of the document
within a double quoted scalar):(e.position++,i=e.position)}d(e,"unexpected end of the stream within a double
quoted scalar")}function E(e,t){var
n,r,i,o,s,l,u,c,p,h,f,m=!0,g=e.tag,y=e.anchor,b={};if(f=e.input.charCodeAt(e.position),91===f)o=93,u=!1,r=[];else{i
f(123!==(f))return!1;o=125,u=!0,r={}}for(null!==(e.anchor&&(e.anchorMap[e.anchor]=r),f=e.input.charCodeAt(++e.
position);0!==(f);if(w(e,!0,t),f=e.input.charCodeAt(e.position),f===o)return
e.position++,e.tag=g,e.anchor=y,e.kind=u?"mapping":"sequence",e.result=r,!0;m||d(e,"missed comma between flow
collection
entries"),p=c=h=null,s=l=!1,63===f&&(i=e.input.charCodeAt(e.position+1),a(i)&&(s=l=!0,e.position++,w(e,!0,t))),
n=e.line,L(e,t,Y,!1,!0),p=e.tag,c=e.result,w(e,!0,t),f=e.input.charCodeAt(e.position),!l&&e.line!==(n||58!==(f)||s=!0,f
=e.input.charCodeAt(++e.position),w(e,!0,t),L(e,t,Y,!1,!0),h=e.result,u?v(e,r,b,p,c,h):s?r.push(v(e,null,b,p,c,h)):r.p
ush(c),w(e,!0,t),f=e.input.charCodeAt(e.position),44===f?(m=!0,f=e.input.charCodeAt(++e.position)):m=!1}d(e,"u
nexpected end of the stream within a flow collection")}function O(e,t){var
n,a,o,s,l=G,c=!1,p=!1,h=t,f=0,m=!1;if(s=e.input.charCodeAt(e.position),124===s)a=!1;else{if(62===s)return!1;a=!0
}for(e.kind="scalar",e.result="",;0!==(s);if(s=e.input.charCodeAt(++e.position),43===s||45===s)G===!1?l=43===s?X
:K:d(e,"repeat of a chomping mode identifier");else{if(!((o=u(s))>=0))break;0===o?d(e,"bad explicit indentation
width of a block scalar; it cannot be less than one"):p?d(e,"repeat of an indentation width identifier):(h=t+o-
1,p=!0)}if(i(s)){do
s=e.input.charCodeAt(++e.position);while(i(s));if(35===s)do
s=e.input.charCodeAt(++e.position);while(!r(s)&&0!==(s))for(;0!==(s);{for(b(e),e.lineIndent=0,s=e.input.charCodeAt
At(e.position);(!p||e.lineIndent<h)&&32===s);e.lineIndent++,s=e.input.charCodeAt(++e.position);if(!p&&e.lineInd
ent>h&&(h=e.lineIndent),r(s))f++;else{if(e.lineIndent<h){l===X?e.result+=N.repeat("\n",c?1+f:f):l===G&&c&&(
e.result+="\n");break}for(a?i(s)?(m=!0,e.result+=N.repeat("\n",c?1+f:f)):m?(m=!1,e.result+=N.repeat("\n",f+1)):0=
===f?c&&(e.result+=

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"):e.result+=N.repeat("\n",f):e.result+=N.repeat("\n",c?1+f:f),c=!0,p=!0,f=0,n=e.position;!r(s)&&0!==s;)s=e.input.c
harCodeAt(++e.position);g(e,n,e.position,!1)}return!0}function k(e,t){var
n,r,i,o=e.tag,s=e.anchor,l=[],u=!1;for(null!==(e.anchor&&(e.anchorMap[e.anchor]=l),i=e.input.charCodeAt(e.positio
n);0!==(i&&45===i&&(r=e.input.charCodeAt(e.position+1),a(r));if(u=!0,e.position++,w(e,!0,-
1)&&e.lineIndent<=t)l.push(null),i=e.input.charCodeAt(e.position);else
if(n=e.line,L(e,t,W,!1,!0),l.push(e.result),w(e,!0,-
1),i=e.input.charCodeAt(e.position),(e.line===n||e.lineIndent>t)&&0!==(i)d(e,"bad
indentation of a sequence entry");else
if(e.lineIndent<t)break;return!!u&&(e.tag=o,e.anchor=s,e.kind="sequence",e.result=l,!0)}function T(e,t,n){var
r,o,s,l,u=e.tag,c=e.anchor,p={},h={},f=null,m=null,g=null,y=!1,b=!1;for(null!==(e.anchor&&(e.anchorMap[e.ancho
r]=p),l=e.input.charCodeAt(e.position);0!==(l);if(r=e.input.charCodeAt(e.position+1),s=e.line,63!==(l&&58!==(l||a(
r))){if(!L(e,n,J,!1,!0))break;if(e.line===s){for(l=e.input.charCodeAt(e.position);i(l);l=e.input.charCodeAt(++e.posit
ion);if(58===l)l=e.input.charCodeAt(++e.position),a(l)||d(e,"a whitespace character is expected after the key-value
separator within a block
mapping"),y&&(v(e,p,h,f,m,null),f=m=g=null),b=!0,y=!1,o=!1,f=e.tag,m=e.result;else{if(!b)return
e.tag=u,e.anchor=c,!0;d(e,"can not read an implicit mapping pair; a colon is missed")}}else{if(!b)return
e.tag=u,e.anchor=c,!0;d(e,"can not read a block mapping
entry; a multiline key may not be an implicit key")}}else
63===l?(y&&(v(e,p,h,f,m,null),f=m=g=null),b=!0,y=!0,o=!0):y?(y=!1,o=!0):d(e,"incomplete explicit mapping pair;
a key node is
missed"),e.position+=1,l=r;if((e.line===s||e.lineIndent>t)&&(L(e,t,Q,!0,o)&&(y?m=e.result:g=e.result),y||(v(e,p,h,f,
m,g),f=m=g=null),w(e,!0,-1),l=e.input.charCodeAt(e.position)),e.lineIndent>t&&0!==(l)d(e,"bad indentation of a
mapping entry");else if(e.lineIndent<t)break}return
y&&(v(e,p,h,f,m,null),b&&(e.tag=u,e.anchor=c,e.kind="mapping",e.result=p),b)}function C(e){var
t,n,r,i,o=!1,s=!1;if(i=e.input.charCodeAt(e.position),33!==(i))return!1;if(null!==(e.tag&&d(e,"duplication of a tag
property"),i=e.input.charCodeAt(++e.position),60===i?(o=!0,i=e.input.charCodeAt(++e.position)):33===i?(s=!0,n=
"!",i=e.input.charCodeAt(++e.position)):n="!",t=e.position,o){do
i=e.input.charCodeAt(++e.position);while(0!==(i&&62!==(i);e.position<e.length?(r=e.input.slice(t,e.position),i=e.inp
ut.charCodeAt(++e.position)):d(e,"unexpected
end of the stream within a verbatim tag")}else{for(;0!==(i&&!a(i));33===i&&(s?d(e,"tag suffix cannot contain
exclamation marks"):n=e.input.slice(t-1,e.position+1),ne.test(n)||d(e,"named tag handle cannot contain such
characters"),s=!0,t=e.position+1)),i=e.input.charCodeAt(++e.position);r=e.input.slice(t,e.position),te.test(r)&&d(e,"t
ag suffix cannot contain flow indicator characters")}return r&&!re.test(r)&&d(e,"tag name cannot contain such
characters:
"+r),o?e.tag=r:H.call(e.tagMap,n)?e.tag=e.tagMap[n]+r:"!"+r:"!"+r?e.tag="tag:yaml.org,2002:"+
r:d(e,'undeclared tag handle "'+n+'"),!0)}function I(e){var
t,n;if(n=e.input.charCodeAt(e.position),38!==(n))return!1;for(null!==(e.anchor&&d(e,"duplication of an anchor
property"),n=e.input.charCodeAt(++e.position),t=e.position;0!==(n&&!a(n)&&!o(n);n=e.input.charCodeAt(++e.po
sition);return e.position===t&&d(e,"name of an anchor node must contain at least one
character"),e.anchor=e.input.slice(t,e.position),!0)}function D(e){var
t,n,r;if(r=e.input.charCodeAt(e.position),42!==(r))return!1;for(r=e.input.charCodeAt(++e.position),t=e.position;0!==(
&&!a(r)&&!o(r);r=e.input.charCodeAt(++e.position);return e.position===t&&d(e,"name of an alias node must
contain at least one character"),n=e.input.slice(t,e.position),e.anchorMap.hasOwnProperty(n)||d(e,'unidentified alias
'+n+'"),e.result=e.anchorMap[n],w(e,!0,-1),!0)}function L(e,t,n,r,i){var
a,o,s,l,u,c,p,h,f=1,m=!1,g=!1;if(null!==(e.listener&&e.listener("open",e),e.tag=null,e.anchor=null,e.kind=null,e.result
=null,a=o=s=Q===n||W===n,r&&w(e,!0,-
1)&&(m=!0,e.lineIndent>t?f=1:e.lineIndent===t?f=0:e.lineIndent<t&&(f=-1)),l===f)for(;C(e)||I(e);)w(e,!0,-
1)?(m=!0,s=a,e.lineIndent>t?f=1:e.lineIndent===t?f=0:e.lineIndent<t&&(f=-

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1)):s=!1;if(s&&(s=m||i),!!=f&&Q!|=n||(p=Y===n||J===n?t:t+1,h=e.position-
e.lineStart,l===f?s&&(k(e,h)||T(e,h,p))||E(e,p)?g=!0:(o&&O(e,p)||S(e,p)||j(e,p)?g=!0:D(e)?(g=!0,null===e.tag&&
null===e.anchor||d(e,"alias node should not have any
properties")):A(e,p,Y===n)&&(g=!0,null===e.tag&&(e.tag=="?")),null!==e.anchor&&(e.anchorMap[e.anchor]=e.re
sult)):0===f&&(g=s&&k(e,h)),null!==e.tag&&"!"!==e.tag)if("?"===e.tag){for(l=0,u=e.implicitTypes.length;l<u;l
+=1)if(c=e.implicitTypes[l],c.resolve(e.result)){e.result=c.construct(e.result),e.tag=c.tag,null!==e.anchor&&(e.anch
orMap[e.anchor]=e.result);break } }else
H.call(e.typeMap,e.tag)?(c=e.typeMap[e.tag],null!==e.result&&c.kind!==e.kind&&d(e,"unacceptable node kind
for !<"+e.tag+"> tag; it should be "+c.kind+"", not
"+e.kind+""),c.resolve(e.result)?(e.result=c.construct(e.result),null!==e.anchor&&(e.anchorMap[e.anchor]=e.result
)):d(e,"cannot resolve a node with !<"+e.tag+"> explicit tag")):d(e,"unknown tag !<"+e.tag+">");return
null!==e.listener&&e.listener("close",e),null!==e.tag||null!==e.anchor||g }function M(e){var
t,n,o,s,l=e.position,u=!1;for(e.version=null,e.checkLineBreaks=e.legacy,e.tagMap={},e.anchorMap={};0!==(s=e.in
put.charCodeAt(e.position))&&(w(e,!0,-
1),s=e.input.charCodeAt(e.position),!(e.lineIndent>0||37!==(s)));){for(u=!0,s=e.input.charCodeAt(++e.position),t=e.p
osition;0!==(s&&!a(s));s=e.input.charCodeAt(++e.position);for(n=e.input.slice(t,e.position),o=[],n.length<1&&d(e,"
directive
name must not be less than one character in
length");0!==(s);){for(i(s);s=e.input.charCodeAt(++e.position);if(35====s){do
s=e.input.charCodeAt(++e.position);while(0!==(s&&!r(s));break }if(r(s))break;for(t=e.position;0!==(s&&!a(s));s=e.in
put.charCodeAt(++e.position);o.push(e.input.slice(t,e.position))}0!==(s&&b(e),H.call(se,n)?se[n](e,n,o):m(e,'unkno
wn document directive "'"+n+""))}return w(e,!0,-
1),0===e.lineIndent&&45===e.input.charCodeAt(e.position)&&45===e.input.charCodeAt(e.position+1)&&45===
e.input.charCodeAt(e.position+2)?(e.position+=3,w(e,!0,-1)):u&&d(e,"directives end mark is
expected"),L(e,e.lineIndent-1,Q,!1,!0),w(e,!0,-
1),e.checkLineBreaks&&ee.test(e.input.slice(l,e.position))&&m(e,"non-ASCII line breaks are interpreted as
content"),e.documents.push(e.result),e.position===e.lineStart&&_(e)?void(46===e.input.charCodeAt(e.position)&
&(e.position+=3,w(e,!0,-1)):void(e.position<e.length-1&&d(e,"end
of the stream or a document separator is expected"))}function
R(e,t){e=String(e),t=t||{ },0!==(e.length&&(10!==(e.charCodeAt(e.length-1))&&13!==(e.charCodeAt(e.length-
1))&&(e+="\n"),65279===e.charCodeAt(0)&&(e=e.slice(1)));var n=new
h(e,t);for(n.input+="\0";32===n.input.charCodeAt(n.position);n.lineIndent+=1,n.position+=1;for(;n.position<n.len
gth-1);M(n);return n.documents}function U(e,t,n){var r,i,a=R(e,n);for(r=0,i=a.length;r<i;r+=1)t(a[r])}function
P(e,t){var n=R(e,t);if(0!==(n.length){if(1!==(n.length))return n[0];throw new z("expected a single document in the
stream, but found more")}}function q(e,t,n){U(e,t,N.extend({schema:F},n))}function B(e,t){return
P(e,N.extend({schema:F},t))}for(var
N=e("./common"),z=e("./exception"),$=e("./mark"),F=e("./schema/default_safe"),V=e("./schema/default_full"),H=
Object.prototype.hasOwnProperty,Y=1,J=2,W=3,Q=4,G=1,K=2,X=3,Z=/[\x00-\x08\x0B\x0C\x0E-\x1F\x7F-
\x84\x86-\x9F\uFFFE\uFFFF][\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?![^\uD800-\uDBFF]^\uDC00-
\uDFFF]/,ee=/[\x85\u2028\u2029]/,te=/[, \[\] \{\}]/,ne=/^(!|!|!|[a-z-]+)!$/i, re=/^(?:![^\[\]\{\}]](?:?[0-9a-f]{2}[0-
9a-z-#; \/\?: @&=+ \$_ . !~*^()\[\]])*$/i,ie=new
Array(256),ae=new Array(256),oe=0;oe<256;oe++)ie[oe]=c(oe)?1:0,ae[oe]=c(oe);var
se={YAML:function(e,t,n){var r,i,a;null!==e.version&&d(e,"duplication of %YAML
directive"),1!==(n.length&&d(e,"YAML directive accepts exactly one argument"),r=/^([0-9]+)\.([0-
9]+)$/.exec(n[0]),null===r&&d(e,"ill-formed argument of the YAML
directive"),i=parseInt(r[1],10),a=parseInt(r[2],10),1!==(i&&d(e,"unacceptable YAML version of the
document"),e.version=n[0],e.checkLineBreaks=a<2,1!==(a&&2!==(a&&m(e,"unsupported YAML version of the
document"))},TAG:function(e,t,n){var r,i;2!==(n.length&&d(e,"TAG directive accepts exactly two

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arguments"),r=n[0],i=n[1],ne.test(r)||d(e,"ill-formed tag handle (first argument) of the TAG
directive"),H.call(e.tagMap,r)&&d(e,'there
is a previously declared suffix for "'+r+' tag handle'),re.test(i)||d(e,"ill-formed tag prefix (second argument) of the
TAG
directive"),e.tagMap[r]=i };t.exports.loadAll=U,t.exports.load=P,t.exports.safeLoadAll=q,t.exports.safeLoad=B},{
"/common":21,"/exception":23,"/mark":25,"/schema/default_full":28,"/schema/default_safe":29}],25:[function(e,t
,n){ "use strict";function r(e,t,n,r,i){ this.name=e,this.buffer=t,this.position=n,this.line=r,this.column=i }var
i=e("./common");r.prototype.getSnippet=function(e,t){ var n,r,a,o,s;if(!this.buffer)return
null;for(e=e||4,t=t||75,n="",r=this.position;r>0&&"\0\r\n\u2028\u2029".indexOf(this.buffer.charAt(r-1))===-1;if(r-
=1,this.position-r>t/2-1){n=" ...
",r+=5;break }for(a="",o=this.position;o<this.buffer.length&&"\0\r\n\u2028\u2029".indexOf(this.buffer.charAt(o))=
===-1;if(o+=1,o-this.position>t/2-1){a=" ... ",o+=5;break }return s=this.buffer.slice(r,o),i.repeat("
",e)+n+s+a+"\n"+i.repeat(" ",e+this.position-r+n.length)+"^"},r.prototype.toString=function(e){ var
t,n="";return this.name&&(n+=in "'+this.name+' "),n+="at line "+(this.line+1)+"", column
"+(this.column+1),e||(t=this.getSnippet(),t&&(n+=":\n"+t)),n},t.exports=r},{"/common":21}],26:[function(e,t,n){ "u
se strict";function r(e,t,n){ var i=[];return
e.include.forEach(function(e){ n=r(e,t,n)}),e[t].forEach(function(e){ n.forEach(function(t,n){ t.tag===e.tag&&i.push(
n)}),n.push(e)}),n.filter(function(e,t){ return i.indexOf(t)===-1 })function i(o){ function e(e){ r[e.tag]=e }var
t,n,r={ };for(t=0,n=arguments.length;t<n;t+=1)arguments[t].forEach(e);return r }function
a(e){ this.include=e.include||[],this.implicit=e.implicit||[],this.explicit=e.explicit||[],this.implicit.forEach(function(e){ i
f(e.loadKind&&"scalar"!==e.loadKind)throw new s("There is a non-scalar type in the implicit list of a schema.
Implicit resolving of such types is not
supported.")),this.compiledImplicit=r(this,"implicit",[]),this.compiledExplicit=r(this,"explicit",[]),this.compiledTyp
eMap=i(this.compiledImplicit,this.compiledExplicit)} var
o=e("./common"),s=e("./exception"),l=e("./type");a.DEFAULT=null,a.create=function(){ var
e,t;switch(arguments.length){ case 1:e=a.DEFAULT,t=arguments[0];break;case
2:e=arguments[0],t=arguments[1];break;default:throw new s("Wrong number of arguments for Schema.create
function")}if(e=o.toArray(e),t=o.toArray(t),!e.every(function(e){ return e instanceof a}))throw new s("Specified list
of super schemas (or a single Schema object) contains a non-Schema object.");if(!t.every(function(e){ return e
instanceof l}))throw new s("Specified list of YAML types (or a single Type object) contains a non-Type
object.");return new
a({ include:e,explicit:t }),t.exports=a},{"/common":21,"/exception":23,"/type":32}],27:[function(e,t,n){ "use
strict";var r=e("./schema");t.exports=new
r({ include:[e("./json")] }),{"/schema":26,"/json":31}],28:[function(e,t,n){ "use strict";var
r=e("./schema");t.exports=r.DEFAULT=new
r({ include:[e("./default_safe")],explicit:[e("./type/js/undefined"),e("./type/js/regexp"),e("./type/js/function")] }),{"/
/schema":26,"/type/js/function":37,"/type/js/regexp":38,"/type/js/undefined":39,"/default_safe":29}],29:[functio
n(e,t,n){ "use
strict";var r=e("./schema");t.exports=new
r({ include:[e("./core")],implicit:[e("./type/timestamp"),e("./type/merge")],explicit:[e("./type/binary"),e("./type/om
ap"),e("./type/pairs"),e("./type/set")] }),{"/schema":26,"/type/binary":33,"/type/merge":41,"/type/omap":43,"..
/type/pairs":44,"/type/set":46,"/type/timestamp":48,"/core":27}],30:[function(e,t,n){ "use strict";var
r=e("./schema");t.exports=new
r({ explicit:[e("./type/str"),e("./type/seq"),e("./type/map")] }),{"/schema":26,"/type/map":40,"/type/seq":45,"../t
ype/str":47}],31:[function(e,t,n){ "use strict";var r=e("./schema");t.exports=new
r({ include:[e("./failsafe")],implicit:[e("./type/null"),e("./type/bool"),e("./type/int"),e("./type/float")] }),{"/schema
":26,"/type/bool":34,"/type/float":35,"/type/int":36,"/type/null":42,"/failsafe":30}],32:[function(e,t,n){ "use

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strict";function r(e){var t={};return
null!==e&&Object.keys(e).forEach(function(n){e[n].forEach(function(e){t[String(e)]=n})),t}function
i(e,t){if(t=t||{},Object.keys(t).forEach(function(t){if(o.indexOf(t)===-1)throw new a("Unknown option '"+t+"' is met
in definition of '"+e+"' YAML
type.')),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(){return!0},this.construct=t.construct||functi
on(e){return
e},this.instanceOf=t.instanceOf||null,this.predicate=t.predicate||null,this.represent=t.represent||null,this.defaultStyle=
t.defaultStyle||null,this.styleAliases=r(t.styleAliases||null),s.indexOf(this.kind)===-1)throw new a("Unknown kind
"+this.kind+" is specified for '"+e+"' YAML type.')}var
a=e("./exception"),o=["kind","resolve","construct","instanceOf","predicate","represent","defaultStyle","styleAliases
"],s=["scalar","sequence","mapping"];t.exports=i},{"/exception":23}],33:[function(e,t,n){"use
strict";function r(e){if(null===e)return!1;var
t,n,r=0,i=e.length,a=p;for(n=0;n<i;n++)if(t=a.indexOf(e.charAt(n)),!(t>64)){if(t<0)return!1;r+=6}return
r%8===0}function i(e){var
t,n,r=e.replace(/[\r\n=]/g,""),i=r.length,a=p,o=0,l=[];for(t=0;t<i;t++)t%4===0&&t&&(l.push(o>>16&255),l.push(o>
>8&255),l.push(255&o)),o=o<<6|a.indexOf(r.charAt(t));
return
n=i%4*6,0===n?(l.push(o>>16&255),l.push(o>>8&255),l.push(255&o)):18===n?(l.push(o>>10&255),l.push(o>>
2&255)):12===n&&l.push(o>>4&255),s?new s(1):1}function a(e){var
t,n,r="",i=0,a=e.length,o=p;for(t=0;t<a;t++)t%3===0&&t&&(r+=o[i>>18&63],r+=o[i>>12&63],r+=o[i>>6&63],r+
=o[63&i]),i=(i<<8)+e[t];return
n=a%3,0===n?(r+=o[i>>18&63],r+=o[i>>12&63],r+=o[i>>6&63],r+=o[63&i]):2===n?(r+=o[i>>10&63],r+=o[i>>
4&63],r+=o[i<<2&63],r+=o[64]):1===n&&(r+=o[i>>2&63],r+=o[i<<4&63],r+=o[64],r+=o[64]),r}function
o(e){return s&&s.isBuffer(e)}var s;try{var l=e;s=l("buffer").Buffer}catch(u){}var
c=e("./type"),p="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/-\n\r";t.ex
ports=new
c("tag:yaml.org,2002:binary",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a}),"../type":32}],34:[funct
ion(e,t,n){"use strict";function r(e){if(null===e)return!1;var t=e.length;return
4===t&&("true"===e||"True"===e||"TRUE"===e)||5===t&&("false"===e||"False"===e||"FALSE"===e)}function
i(e){return"true"===e||"True"===e||"TRUE"===e}function a(e){return"[object
Boolean]"===Object.prototype.toString.call(e)}var o=e("./type");t.exports=new
o("tag:yaml.org,2002:bool",{kind:"scalar",resolve:r,construct:i,predicate:a,represent:{lowercase:function(e){return
e?"true":"false"},uppercase:function(e){return e?"TRUE":"FALSE"},camelcase:function(e){return
e?"True":"False"}},defaultStyle:"lowercase"}),"../type":32}],35:[function(e,t,n){"use strict";function r(e){return
null!==e&&!u.test(e)}function i(e){var t,n,r,i;return t=e.replace(/_/g,"").toLowerCase(),n="-"===t[0]?-1:1,i=[],+
".indexOf(t[0])>=0&&(t=t.slice(1)),".inf"===t?1===n?Number.POSITIVE_INFINITY:Number.NEGATIVE_INFI
NITY:".nan"===t?NaN:t.indexOf(":")>=0?(t.split(":").forEach(function(e){i.unshift(parseFloat(e,10))}),t=0,r=1,i.fo
rEach(function(e){t+=e*r,r*=60}),n*t):n*parseFloat(t,10)}function
a(e,t){var
n;if(isNaN(e))switch(t){case"lowercase":return".nan";case"uppercase":return".NaN";case"camelcase":return".NaN"
}else
if(Number.POSITIVE_INFINITY===e)switch(t){case"lowercase":return".inf";case"uppercase":return".INF";case"camelcase":return".Inf"}else if(Number.NEGATIVE_INFINITY===e)switch(t){case"lowercase":return"-
.inf";case"uppercase":return".-INF";case"camelcase":return".-Inf"}else if(s.isNegativeZero(e))return"-0.0";return
n=e.toString(10),c.test(n)?n.replace("e",".e"):n}function o(e){return"[object
Number]"===Object.prototype.toString.call(e)&&(e%1!==0||s.isNegativeZero(e))}var
s=e("./common"),l=e("./type"),u=new RegExp("^(?:[+-]?(?:[0-9][0-9_]*\\|\\.[0-9_]*(?:[eE][+-][0-9]+)?\\|\\.[0-
9_]+(?:[eE][+-][0-9]+)?[+-]?[0-9][0-9_]*(?:[0-5]?[0-9])+\|\\.[0-9_]*[[-

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+]?\.(?:inf|Inf|INF)|\.(?:nan|NaN|NAN))$"),c=/^[-+]?[0-9]+e/;t.exports=new
l("tag:yaml.org,2002:float",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a,defaultStyle:"lowercase"}),{
"../common":21,"../type":32}],36:[function(e,t,n){function r(e){return
48<=e&&e<=57||65<=e&&e<=70||97<=e&&e<=102}function i(e){return 48<=e&&e<=55}function a(e){return
48<=e&&e<=57}function o(e){if(null===e)return!1;var t,n=e.length,o=0,s=!1;if(!n)return!1;if(t=e[o],"-
"!==t&&"+"!==t||(t=e[+o]),"0"===t){if(o+1===n)return!0;if(t=e[+o],"b"===t){for(o++;o<n;o++)if(t=e[o],"_"!
=t){if("0"!==t&&"1"!==t)return!1;s=!0}return
s}if("x"===t){for(o++;o<n;o++)if(t=e[o],"_"!==t){if(!r(e.charCodeAt(o)))return!1;s=!0}return
s}for(o++;o<n)o++if(t=e[o],"_"!==t){if(!i(e.charCodeAt(o)))return!1;s=!0}return
s}for(o++;o<n)o++if(t=e[o],"_"!==t){if(":"===t)break;if(!a(e.charCodeAt(o)))return!1;s=!0}return!!s&&(":"===t||/^(?:[0
-5]?[0-9]+)$/).test(e.slice(o))}function s(e){var t,n,r=e,i=1,a=[];return r.indexOf("_")!==-
1&&(r=r.replace(/_g/,""),t=r[0],"-"!==t&&"+"!==t||(t=":"===t&&(i=-
1),r=r.slice(1),t=r[0]),"0"===r?"0"===t?"b"===r[1]?i*parseInt(r.slice(2),2):"x"===r[1]?i*parseInt(r,16):i*parseInt
(r,8):r.indexOf(":")!==-
1?(r.split(":").forEach(function(e){a.unshift(parseInt(e,10))}),r=0,n=1,a.forEach(function(e){r+=e*n,n*=60}),i*r):i*
parseInt(r,10)}function
l(e){return"[object Number]"===Object.prototype.toString.call(e)&&e%1===0&&!u.isNegativeZero(e)}var
u=e("../common"),c=e("../type");t.exports=new
c("tag:yaml.org,2002:int",{kind:"scalar",resolve:o,construct:s,predicate:l,represent:{binary:function(e){return"0b"+
e.toString(2)},octal:function(e){return"0"+e.toString(8)},decimal:function(e){return
e.toString(10)},hexadecimal:function(e){return"0x"+e.toString(16).toUpperCase()}},defaultStyle:"decimal",styleAli
ases:{binary:[2,"bin"],octal:[8,"oct"],decimal:[10,"dec"],hexadecimal:[16,"hex"]}}),{"../common":21,"../type":32}
],37:[function(e,t,n){function r(e){if(null===e)return!1;try{var
t="(+e+)",n=s.parse(t,{range:!0});return"Program"===n.type&&1===n.body.length&&"ExpressionStatement"===
=n.body[0].type&&"FunctionExpression"===n.body[0].expression.type}catch(r){return!1}}function i(e){var
t,n="(+e+)",r=s.parse(n,{range:!0}),i=[];if("Program"===r.type||1===r.body.length||"ExpressionStatement"===r.bo
dy[0].type||"FunctionExpression"===r.body[0].expression.type)throw new Error("Failed to resolve function");return
r.body[0].expression.params.forEach(function(e){i.push(e.name)}),t=r.body[0].expression.body.range,new
Function(i,n.slice(t[0]+1,t[1]-1))}function a(e){return e.toString()}function o(e){return"[object
Function]"===Object.prototype.toString.call(e)}var s;try{var l=e;s=l("esprima")}catch(u){"undefined"!==typeof
window&&(s=window.esprima)}var c=e("../type");t.exports=new
c("tag:yaml.org,2002:js/function",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a}),"../type":32}],38:
[function(e,t,n){function r(e){if(null===e)return!1;if(0===e.length)return!1;var
t=e,n=/([gim]*)$/i.exec(e),r="";if("/"===t[0]){if(n&&(r=n[1]),r.length>3)return!1;if("/"===t[t.length-r.length-
1])return!1}return!0}function i(e){var
t=e,n=/([gim]*)$/i.exec(e),r="";return"/"===t[0]&&(n&&(r=n[1]),t=t.slice(1,t.length-r.length-1)),new
RegExp(t,r)}function a(e){var t="/" + e.source + "/";return
e.global&&(t+="g"),e.multiline&&(t+="m"),e.ignoreCase&&(t+="i"),t}function o(e){return"[object
RegExp]"===Object.prototype.toString.call(e)}var s=e("../type");t.exports=new
s("tag:yaml.org,2002:js/regexp",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a}),"../type":32}],39:[f
unction(e,t,n){function r(e){return!0}function i(e){}function a(e){return""}function
o(e){return"undefined"===typeof e}var s=e("../type");t.exports=new
s("tag:yaml.org,2002:js/undefined",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a}),"../type":32}],4
0:[function(e,t,n){function r(e){var r=e("../type");t.exports=new
r("tag:yaml.org,2002:map",{kind:"mapping",construct:function(e){return
null!==e?e:{"}})},{"../type":32}],41:[function(e,t,n){function r(e){return"<<"===e||null===e}var
i=e("../type");t.exports=new
i("tag:yaml.org,2002:merge",{kind:"scalar",resolve:r}),"../type":32}],42:[function(e,t,n){function

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r(e){if(null===e)return!0;var t=e.length;return
1===t&&"~"===e||4===t&&("null"===e||"Null"===e||"NULL"===e)}function i(){return null}function a(e){return
null===e}var o=e("../type");t.exports=new
o("tag:yaml.org,2002:null",{kind:"scalar",resolve:r,construct:i,predicate:a,represent:{canonical:function(){return"~"
},lowercase:function(){return"null"},uppercase:function(){return"NULL"},camelcase:function(){return"Null"}},def
aultStyle:"lowercase"}),{"../type":32}],43:[function(e,t,n){"use strict";function r(e){if(null===e)return!0;var
t,n,r,i,a,l=[],u=e;for(t=0,n=u.length;t<n;t+=1){if(r=u[t],a=!1,"[object Object]"!==s.call(r))return!1;for(i in
r)if(o.call(r,i)){if(a)return!1;a=!0;if(!a)return!1;if(l.indexOf(i)!==-1)return!1;l.push(i)}return!0}function
i(e){return null!==e?e:[]}var
a=e("../type"),o=Object.prototype.hasOwnProperty,s=Object.prototype.toString;t.exports=new
a("tag:yaml.org,2002:omap",{kind:"sequence",resolve:r,construct:i}),{"../type":32}],44:[function(e,t,n){"use
strict";function r(e){if(null===e)return!0;var t,n,r,i,a,s=e;for(a=new
Array(s.length),t=0,n=s.length;t<n;t+=1){if(r=s[t],[object
Object]"!==o.call(r))return!1;if(i=Object.keys(r),l!==i.length)return!1;a[t]=[i[0],r[i[0]]]}return!0}function
i(e){if(null===e)return[];var t,n,r,i,a,o=e;for(a=new
Array(o.length),t=0,n=o.length;t<n;t+=1)r=o[t],i=Object.keys(r),a[t]=[i[0],r[i[0]]];return a}var
a=e("../type"),o=Object.prototype.toString;t.exports=new
a("tag:yaml.org,2002:pairs",{kind:"sequence",resolve:r,construct:i}),{"../type":32}],45:[function(e,t,n){"use
strict";var r=e("../type");t.exports=new r("tag:yaml.org,2002:seq",{kind:"sequence",construct:function(e){return
null===e?e:[]}}),{"../type":32}],46:[function(e,t,n){"use
strict";function r(e){if(null===e)return!0;var t,n=e;for(t in n)if(o.call(n,t)&&null!==n[t])return!1;return!0}function
i(e){return null!==e?e:[]}var a=e("../type"),o=Object.prototype.hasOwnProperty;t.exports=new
a("tag:yaml.org,2002:set",{kind:"mapping",resolve:r,construct:i}),{"../type":32}],47:[function(e,t,n){"use
strict";var r=e("../type");t.exports=new r("tag:yaml.org,2002:str",{kind:"scalar",construct:function(e){return
null===e?"":""}}),{"../type":32}],48:[function(e,t,n){"use strict";function r(e){return
null===e&&(null!==s.exec(e)||null!==l.exec(e))}function i(e){var
t,n,r,i,a,o,u,c,p,h,f=0,d=null;if(t=s.exec(e),null===t&&(t=l.exec(e)),null===t)throw new Error("Date resolve
error");if(n=+t[1],r=+t[2]-1,i=+t[3],!t[4])return new
Date(Date.UTC(n,r,i));if(a=+t[4],o=+t[5],u=+t[6],t[7]){for(f=t[7].slice(0,3);f.length<3;f+="0";f+=f)return
t[9]&&(c=+t[10],p=+(t[11]||0),d=6e4*(60*c+p),"-"===t[9]&&(d=-d),h=new
Date(Date.UTC(n,r,i,a,o,u,f)),d&&h.setTime(h.getTime()-d),h)}function
a(e){return e.toISOString()}var o=e("../type"),s=new RegExp("^([0-9][0-9][0-9][0-9])-([0-9][0-9])-([0-9][0-
9])$"),l=new RegExp("^([0-9][0-9][0-9][0-9])-([0-9][0-9]?)-([0-9][0-9]?)(?:[Tt][ \\t+][0-9][0-9]?:([0-9][0-9]):([0-
9][0-9])?(?:\\.([0-9]*))?(?:[ \\t]*(Z|[+-])([0-9][0-9]?):(?:[0-9][0-9])?)?$");t.exports=new
o("tag:yaml.org,2002:timestamp",{kind:"scalar",resolve:r,construct:i,instanceOf:Date,represent:a}),{"../type":32}],
49:[function(e,t,n){function r(e,t,n){var r=e.length:0;if(!r)return-1;if("number"===typeof n)n=n<0?o(r+n,0):n;else
if(n){var s=a(e,t);return s<r&&(t===t?t===e[s]:e[s]!==e[s])?s:-1}return i(e,t,n||0)}var
i=e("../internal/baseIndexOf"),a=e("../internal/binaryIndex"),o=Math.max;t.exports=r},{"../internal/baseIndexOf":78
,"../internal/binaryIndex":92}],50:[function(e,t,n){function r(e){var t=e.length:0;return t?e[t-1]:void
0}t.exports=r},{}],51:[function(e,t,n){function r(e){if(l(e)&&!s(e)&&!(e instanceof i)){if(e instanceof a)return
e;if(p.call(e,"__chain__")&&p.call(e,"__wrapped__"))return
u(e)}return new a(e)}var
i=e("../internal/LazyWrapper"),a=e("../internal/LodashWrapper"),o=e("../internal/baseLodash"),s=e("../lang/isArray"
),l=e("../internal/isObjectLike"),u=e("../internal/wrapperClone"),c=Object.prototype,p=c.hasOwnProperty;r.prototyp
e=o.prototype,t.exports=r},{"../internal/LazyWrapper":60,"../internal/LodashWrapper":61,"../internal/baseLodash":8
2,"../internal/isObjectLike":126,"../internal/wrapperClone":137,"../lang/isArray":140}],52:[function(e,t,n){t.exports=
e("../forEach")},{"../forEach":54}],53:[function(e,t,n){var
r=e("../internal/baseEach"),i=e("../internal/createFind"),a=i(r);t.exports=a},{"../internal/baseEach":71,"../internal/cre

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ateFind":102}],54:[function(e,t,n){var
r=e("../internal/arrayEach"),i=e("../internal/baseEach"),a=e("../internal/createForEach"),o=a(r,i);t.exports=o},{ "../int
ernal/arrayEach":63,"../internal/baseEach":71,"../internal/createForEach":103}],55:[function(e,t,n){function
r(e,t,n,r){var
h=e?a(e):0;return l(h)|(e=c(e),h=e.length),n="number"!==typeof n||r&&s(t,n,r)?0:n<0?p(h+n,0):n||0,"string"===typeof
e?!o(e)&&u(e)?n<=h&&e.indexOf(t,n)>-1:!!h&&i(e,t,n)>-1}var
i=e("../internal/baseIndexOf"),a=e("../internal/getLength"),o=e("../lang/isArray"),s=e("../internal/isIterateeCall"),l=e(
 "../internal/isLength"),u=e("../lang/isString"),c=e("../object/values"),p=Math.max;t.exports=r},{ "../internal/baseInde
xOf":78,"../internal/getLength":112,"../internal/isIterateeCall":122,"../internal/isLength":125,"../lang/isArray":140,"..
/lang/isString":146,"../object/values":152}],56:[function(e,t,n){function r(e,t,n){var r=s(e)?i:o;return
t=a(t,n,3),r(e,t)}var
i=e("../internal/arrayMap"),a=e("../internal/baseCallback"),o=e("../internal/baseMap"),s=e("../lang/isArray");t.export
s=r},{ "../internal/arrayMap":64,"../internal/baseCallback":67,"../internal/baseMap":83,"../lang/isArray":140}],57:[fu
nction(e,t,n){var r=e("../internal/getNative"),i=r(Date,"now"),a=i||function(){return(new
Date).getTime()};t.exports=a},{ "../internal/getNative":114}],58:[function(e,t,n){var
r=e("../internal/createWrapper"),i=e("../internal/replaceHolders"),a=e("../restParam"),o=1,s=32,l=a(function(e,t,n){va
r a=o;if(n.length){var u=i(n,l.placeholder);a|=s}return
r(e,a,t,n,u));l.placeholder={},t.exports=1},{ "../internal/createWrapper":106,"../internal/replaceHolders":132,"../restP
aram":59}],59:[function(e,t,n){function r(e,t){if("function"!==typeof e)throw new TypeError(i);return t=a(void
0===t?e.length-1:+t||0,0),function(){for(var n=arguments,r=-1,i=a(n.length-
t,0),o=Array(i);++r<i;)o[r]=n[t+r];switch(t){case 0:return e.call(this,o);case 1:return e.call(this,n[0],o);case 2:return
e.call(this,n[0],n[1],o)}var s=Array(t+1);for(r=-1;+r<t;)s[r]=n[r];return s[t]=o,e.apply(this,s)} }var i="Expected a
function",a=Math.max;t.exports=r},{}],60:[function(e,t,n){function
r(e){this.__wrapped__=e,this.__actions__=[],this.__dir__=1,this.__filtered__=!1,this.__iteratees__=[],this.__takeCo
unt__=0,this.__views__=[]}var
i=e("../baseCreate"),a=e("../baseLodash"),o=Number.POSITIVE_INFINITY;r.prototype=i(a.prototype),r.prototype.c
onstructor=r,t.exports=r},{ "../baseCreate":70,"../baseLodash":82}],61:[function(e,t,n){function
r(e,t,n){this.__wrapped__=e,this.__actions__=n||[],this.__chain__=!t}var
i=e("../baseCreate"),a=e("../baseLodash");r.prototype=i(a.prototype),r.prototype.constructor=r,t.exports=r},{ "../baseCr
eate":70,"../baseLodash":82}],62:[function(e,t,n){function r(e,t){var n=-
1,r=e.length;for(t||(t=Array(r));++n<r;)t[n]=e[n];return t}t.exports=r},{}],63:[function(e,t,n){function r(e,t){for(var
n=-1,r=e.length;+n<r;&&t(e[n],n,e)!==!1;);return e}t.exports=r},{}],64:[function(e,t,n){function r(e,t){for(var n=-
1,r=e.length,i=Array(r);+n<r;)i[n]=t(e[n],n,e);return i}t.exports=r},{}],65:[function(e,t,n){function r(e,t){for(var
n=-1,r=e.length;+n<r;){if(t(e[n],n,e))return!0;return!1}t.exports=r},{}],66:[function(e,t,n){function r(e,t){return
null===t?e:i(t,a(t),e)}var
i=e("../baseCopy"),a=e("../object/keys");t.exports=r},{ "../object/keys":149,"../baseCopy":69}],67:[function(e,t,n){fun
ction
r(e,t,n){var r=typeof e;return"function"===r?void 0===t?e:o(e,t,n):null===e?s:"object"===r?i(e):void
0===t?l(e):a(e,t)}var
i=e("../baseMatches"),a=e("../baseMatchesProperty"),o=e("../bindCallback"),s=e("../utility/identity"),l=e("../utility/pro
perty");t.exports=r},{ "../utility/identity":154,"../utility/property":156,"../baseMatches":84,"../baseMatchesProperty":8
5,"../bindCallback":94}],68:[function(e,t,n){function r(e,t,n,m,g,y,v){var w;if(n&&(w=g?n(e,m,g):n(e)),void
0!==w)return w;if(!f(e))return e;var _=p(e);if(_){if(w=l(e),!t)return i(e,w)}else{var
A=B.call(e),S=A==b;if(A!=x&&A!=d&&(!S|g))return P[A]?u(e,A,t):g?e:{};if(h(e))return
g?e:{};if(w=c(S?{ }:e),!t)return o(w,e)}y||(y=[]),v||(v=[]);for(var j=y.length;j--);if(y[j]==e)return v[j];return
y.push(e),v.push(w),(_?a:s)(e,function(i,a){w[a]=r(i,t,n,a,e,y,v)}),w}var
i=e("../arrayCopy"),a=e("../arrayEach"),o=e("../baseAssign"),s=e("../baseForOwn"),l=e("../initCloneArray"),u=e("../init
CloneByTag"),c=e("../initCloneObject"),p=e("../lang/isArray"),h=e("../isHostObject"),f=e("../lang/isObject"),d="[obj

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Arguments]",m="[object Array]",g="[object Boolean]",y="[object Date]",v="[object Error]",b="[object
Function]",w="[object Map]",_="[object Number]",x="[object Object]",A="[object RegExp]",S="[object
Set]",j="[object String]",E="[object WeakMap]",O="[object ArrayBuffer]",k="[object Float32Array]",T="[object
Float64Array]",C="[object Int8Array]",I="[object Int16Array]",D="[object Int32Array]",L="[object
Uint8Array]",M="[object Uint8ClampedArray]",R="[object Uint16Array]",U="[object
Uint32Array]",P={};P[d]=P[m]=P[O]=P[g]=P[y]=P[k]=P[T]=P[C]=P[I]=P[D]=P[_]=P[x]=P[A]=P[j]=P[L]=P[M]=
P[R]=P[U]=!0,P[v]=P[b]=P[w]=P[S]=P[E]=!1;var
q=Object.prototype,B=q.toString;t.exports=r,{../lang/isArray":140,../lang/isObject":144,./arrayCopy":62,./array
Each":63,./baseAssign":66,./baseForOwn":76,./initCloneArray":116,./initCloneByTag":117,./initCloneObject":
118,./isHostObject":120}],69:[function(e,t,n){function
r(e,t,n){n|(n={});for(var r=-1,i=t.length;++r<i){var a=t[r];n[a]=e[a]}return
n}.t.exports=r},{},70:[function(e,t,n){var r=e("../lang/isObject"),i=function(){function e(){return
function(t){if(r(t)){e.prototype=t;var n=new e;e.prototype=void 0}return
n|{}}();t.exports=i},{../lang/isObject":144}],71:[function(e,t,n){var
r=e("../baseForOwn"),i=e("../createBaseEach"),a=i(r);t.exports=a,{../baseForOwn":76,./createBaseEach":98}],72:[f
unction(e,t,n){function r(e,t,n,r){var i;return n(e,function(e,n,a){if(t(e,n,a))return
i=r?n:e,!1}),i}.t.exports=r},{},73:[function(e,t,n){function r(e,t,n){for(var r=e.length,i=n?r-1;n?i--
:++i<r);if(t(e[i],i,e))return i;return-1}.t.exports=r},{},74:[function(e,t,n){var
r=e("../createBaseFor"),i=r();t.exports=i,{../createBaseFor":99}],75:[function(e,t,n){function r(e,t){return
i(e,t,a)}var
i=e("../baseFor"),a=e("../object/keysIn");t.exports=r,{../object/keysIn":150,./baseFor":74}],76:[function(e,t,n){fun
ction
r(e,t){return i(e,t,a)}var
i=e("../baseFor"),a=e("../object/keys");t.exports=r,{../object/keys":149,./baseFor":74}],77:[function(e,t,n){functio
n r(e,t,n){if(null!=e){e=i(e),void 0!==(n&& n in e&&(t=[n]));for(var
r=0,a=t.length;null!=e&&r<a;e=i(e)[t[r++]];return r&&r==a?e:void 0)}var
i=e("../toObject");t.exports=r,{../toObject":135}],78:[function(e,t,n){function r(e,t,n){if(t!==t)return i(e,n);for(var
r=n-1,a=e.length;++r<a);if(e[r]===t)return r;return-1}var
i=e("../indexOfNaN");t.exports=r,{../indexOfNaN":115}],79:[function(e,t,n){function r(e,t,n,s,l,u){return
e===t|(null==e|null==t)!a(e)&&!o(t)?e!==e&&t!==(i(e,t,r,n,s,l,u))}var
i=e("../baseIsEqualDeep"),a=e("../lang/isObject"),o=e("../isObjectLike");t.exports=r,{../lang/isObject":144,./baseIs
EqualDeep":80,./isObjectLike":126}],80:[function(e,t,n){function r(e,t,n,r,f,g,y){var
v=s(e),b=s(t),w=p,_=p;v|(w=m.call(e),w==c?w=h:w!=h&&(v=u(e))),b|(_=m.call(t),_=c?_=h:_!=h&&(b=u(t)));va
r x=w==h&&!l(e),A=_=h&&!l(t),S=w==_;if(S&&!v&&!x)return
a(e,t,w);if(!f){var j=x&&d.call(e,"__wrapped__"),E=A&&d.call(t,"__wrapped__");if(j|E)return
n(j?e.value():e,E?t.value():t,r,f,g,y)}if(!S)return!1;g|(g=[]),y|(y=[]);for(var O=g.length;O--);if(g[O]==e)return
y[O]==t;g.push(e),y.push(t);var k=(v?i:o)(e,t,n,r,f,g,y);return g.pop(),y.pop(),k}var
i=e("../equalArrays"),a=e("../equalByTag"),o=e("../equalObjects"),s=e("../lang/isArray"),l=e("../isHostObject"),u=e("../
lang/isTypedArray"),c="[object Arguments]",p="[object Array]",h="[object
Object]",f=Object.prototype,d=f.hasOwnProperty,m=f.toString;t.exports=r,{../lang/isArray":140,../lang/isTyped
Array":147,./equalArrays":107,./equalByTag":108,./equalObjects":109,./isHostObject":120}],81:[function(e,t,n)
{function r(e,t,n){var r=t.length,o=r,s=!n;if(null==e)return o;for(e=a(e);r--){var
l=t[r];if(s&&l[2]?l[1]===e[l[0]]:(l[0]in e))return!1}for(++r<o){l=t[r];var u=l[0],c=e[u],p=l[1];if(s&&l[2]){if(void
0===c&&(u in e))return!1}else{var h=n?n(c,p,u):void 0;if(!(void 0===h?i(p,c,n,!0):h))return!1}}return!0}var
i=e("../baseIsEqual"),a=e("../toObject");t.exports=r,{../baseIsEqual":79,./toObject":135}],82:[function(e,t,n){functi
on r(o){t.exports=r},{},83:[function(e,t,n){function r(e,t){var n=-1,r=a(e)?Array(e.length):[];return
i(e,function(e,i,a){r[++n]=t(e,i,a)},r)}var
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i=e("./baseEach"),a=e("./isArrayLike");t.exports=r},{"/baseEach":71,"/isArrayLike":119}],84:[function(e,t,n){function r(e){var t=a(e);if(1==t.length&&t[0][2]){var n=t[0][0],r=t[0][1];return function(e){return null!=e&&(e=o(e),e[n]==r&&(void 0!=r||n in e))}}return function(e){return i(e,t)}}var i=e("./baseIsMatch"),a=e("./getMatchData"),o=e("./toObject");t.exports=r},{"/baseIsMatch":81,"/getMatchData":113,"/toObject":135}],85:[function(e,t,n){function r(e,t){var n=s(e),r=l(e)&&u(t),f=e+"";return e=h(e),function(s){if(null==s)return!1;var l=f;if(s=p(s),(n||r)&&!(l in s)){if(s=1==e.length?s:i(s,o(e,0,-1)),null==s)return!1;l=c(e),s=p(s)}return s[l]==t?void 0!=t||l in s:a(t,s[l],void 0,!0)}}var i=e("./baseGet"),a=e("./baseIsEqual"),o=e("./baseSlice"),s=e("../lang/isArray"),l=e("./isKey"),u=e("./isStrictComparable"),c=e("../array/last"),p=e("./toObject"),h=e("./toPath");t.exports=r},{"/array/last":50,"/lang/isArray":140,"/baseGet":77,"/baseIsEqual":79,"/baseSlice":89,"/isKey":123,"/isStrictComparable":127,"/toObject":135,"/toPath":136}],86:[function(e,t,n){function r(e){return function(t){return null==t?void 0:i(t)[e]}}var i=e("./toObject");t.exports=r},{"/toObject":135}],87:[function(e,t,n){function r(e){var t=e+"";return e=a(e),function(n){return i(n,e,t)}}var i=e("./baseGet"),a=e("./toPath");t.exports=r},{"/baseGet":77,"/toPath":136}],88:[function(e,t,n){var r=e("./utility/identity"),i=e("./metaMap"),a=i?function(e,t){return i.set(e,t),e}:t.exports=a},{"/utility/identity":154,"/metaMap":129}],89:[function(e,t,n){function r(e,t,n){var r=1,i=e.length;t=null==t?0:+t||0,t<0&&(t=-t)?0:i+t,n=void 0===n||n>i?i:+n||0,n<0&&(n+=i),i=t>n?0:n-t>>>0,t>>>0;for(var a=Array(i);++r<i;a[r]=e[r+t];return a)t.exports=r},{}],90:[function(e,t,n){function r(e){return null==e?"":e+""}t.exports=r},{}],91:[function(e,t,n){function r(e,t){for(var n=1,r=t.length,i=Array(r);++n<r;i[n]=e[t[n]];return i)t.exports=r},{}],92:[function(e,t,n){function r(e,t,n){var r=0,o=e?e.length:r;if("number"==typeof t&&t===t&&o<=s){for(;r<o;){var l=r+o>>>1,u=e[l];(n?u<=t:u<t)&&null!==(u?r=l+1:o=1)}return o}return i(e,t,a,n)}var i=e("./binaryIndexBy"),a=e("./utility/identity"),o=4294967295,s=o>>>1;t.exports=r},{"/utility/identity":154,"/binaryIndexBy":93}],93:[function(e,t,n){function r(e,t,n,r){t=n(t);for(var o=0,l=e?e.length:0,u=t!=t,c=null===t,p=void 0===t;o<l;){var h=i((o+l)/2),f=n(e[h]),d=void 0!=f,m=f===f;if(u)var g=m||r;else g=c?m&&d&&(r||null!=f):p?m&&(r||d):null!=f&&(r?f<=t:f<t);g?o=h+1:l=h}return a(l,s)}var i=Math.floor,a=Math.min,o=4294967295,s=o-1;t.exports=r},{}],94:[function(e,t,n){function r(e,t,n){if("function"!=typeof e)return i;if(void 0===t)return e;switch(n){case 1:return function(n){return e.call(t,n)};case 3:return function(n,r,i){return e.call(t,n,r,i)};case 4:return function(n,r,i,a){return e.call(t,n,r,i,a)};case 5:return function(n,r,i,a,o){return e.call(t,n,r,i,a,o)}}return function(){return e.apply(t,arguments)}}var i=e("./utility/identity");t.exports=r},{"/utility/identity":154}],95:[function(e,t,n){(function(e){function n(e){var t=new r(e.byteLength),n=new i(t);return n.set(new i(e)),t}var r=e.ArrayBuffer,i=e.Uint8Array;t.exports=n}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{}},{}),96:[function(e,t,n){function r(e,t,n){for(var r=n.length,a=-1,o=i(e.length-r,0),s=-1,l=t.length,u=Array(l+o);++s<l;u[s]=t[s];for(++a<r;u[n[a]]=e[a];for(o--;)u[s++]=e[a++]);return u}var i=Math.max;t.exports=r},{}],97:[function(e,t,n){function r(e,t,n){for(var r=-1,a=n.length,o=-1,s=i(e.length-a,0),l=-1,u=t.length,c=Array(s+u);++o<s;c[o]=e[o];for(var p=o;+l<u;c[p+l]=t[l];for(++r<a;c[p+n[r]]=e[o++]);return c}var i=Math.max;t.exports=r},{}],98:[function(e,t,n){function r(e,t){return function(n,r){var s=n?i(n):0;if(!a(s))return e(n,r);for(var l=t?s:-1,u=o(n);(t?l--:++l<s)&&r[u[l],l,u]!==!1;return n}}var i=e("./getLength"),a=e("./isLength"),o=e("./toObject");t.exports=r},{"/getLength":112,"/isLength":125,"/toObject":135}],99:[function(e,t,n){function r(e){return function(t,n,r){for(var a=i(t),o=r(t),s=o.length,l=e?s:-1;e?!--:++l<s;){var u=o[l];if(n(a[u],u,a)===!1)break}return t}}var i=e("./toObject");t.exports=r},{"/toObject":135}],100:[function(e,t,n){(function(n){function r(e,t){function r(o){var i=this&&this!==(n&&this instanceof r?a:e);return i.apply(t,arguments)}var a=i(e);return r}}

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i=e("./createCtorWrapper");t.exports=r}).call(this,"undefined"!==typeof global?global:"undefined"!==typeof
self?self:"undefined"!==typeof window?window:{}),{"/createCtorWrapper":101}],101:[function(e,t,n){function
r(e){return function(){var t=arguments;switch(t.length){case
0:return new e;case 1:return new e(t[0]);case 2:return new e(t[0],t[1]);case 3:return new e(t[0],t[1],t[2]);case
4:return new e(t[0],t[1],t[2],t[3]);case 5:return new e(t[0],t[1],t[2],t[3],t[4]);case 6:return new
e(t[0],t[1],t[2],t[3],t[4],t[5]);case 7:return new e(t[0],t[1],t[2],t[3],t[4],t[5],t[6])}var
n=i(e.prototype),r=e.apply(n,t);return a(r)?r:n} } var
i=e("./baseCreate"),a=e("../lang/isObject");t.exports=r},{"/lang/isObject":144,"./baseCreate":70}],102:[function(e,t
,n){function r(e,t){return function(n,r,l){if(r=i(r,l,3),s(n)){var u=o(n,r,t);return u>-1?n[u]:void 0}return a(n,r,e)} } var
i=e("./baseCallback"),a=e("./baseFind"),o=e("./baseFindIndex"),s=e("../lang/isArray");t.exports=r},{"/lang/isArray
":140,"./baseCallback":67,"./baseFind":72,"./baseFindIndex":73}],103:[function(e,t,n){function r(e,t){return
function(n,r,o){return"function"===typeof r&&void 0===o&&a(n)?e(n,r):(t,n,i(r,o,3))} } var
i=e("./bindCallback"),a=e("../lang/isArray");t.exports=r},{"/lang/isArray":140,"./bindCallback":94}],104:[function
(e,t,n){function
r(e,t,_x,A,S,j,E,O,k){function T(){for(var d=arguments.length,m=d,g=Array(d);m--
);g[m]=arguments[m];if(x&&(g=a(g,x,A)),S&&(g=o(g,S,j)),L||R){var b=T.placeholder,P=c(g,b);if(d
=P.length,d<k){var q=E?i(E):void 0,B=w(k-d,0),N=L?P:void 0,z=L?void 0:P,$=L?g:void 0,F=L?void
0:g;t|=L?y:v,t&&~(L?v:y),M||(t&&~(h?f));var V=[e,t,_,$,N,F,z,q,O,B],H=r.apply(void 0,V);return
l(e)&&p(H,V),H.placeholder=b,H} } var Y=I?_:this,J=D?Y[e]:e;return
E&&(g=u(g,E)),C&&O<g.length&&(g.length=O),this&&this!==(n&&this instanceof
T&&(J=U||s(e)),J.apply(Y,g))var C=t&b,I=t&h,D=t&f,L=t&m,M=t&d,R=t&g,U=D?void 0:s(e);return T} var
i=e("./arrayCopy"),a=e("./composeArgs"),o=e("./composeArgsRight"),s=e("./createCtorWrapper"),l=e("./isLaziable
"),u=e("./reorder"),c=e("./replaceHolders"),p=e("./setData"),h=1,f=2,d=4,m=8,g=16,y=32,v=64,b=128,w=Math.max
;t.exports=r}).call(this,"undefined"!==typeof global?global:"undefined"!==typeof self?self:"undefined"!==typeof
window?window:{}),{"/arrayCopy":62,"./composeArgs":96,"./composeArgsRight":97,"./createCtorWrapper":101,
"/isLaziable":124,"./reorder":131,"./replaceHolders":132,"./setData":133}],105:[function(e,t,n){function
on
r(e,t,r,o){function s(){for(var t=-1,i=arguments.length,a=-1,c=o.length,p=Array(c+i);++a<c;p[a]=o[a];for(;i--
);p[a++]=arguments[+t];var h=this&&this!==(n&&this instanceof s)?u:e;return h.apply(!?r:this,p)} var
l=t&a,u=i(e);return s} var i=e("./createCtorWrapper"),a=1;t.exports=r}).call(this,"undefined"!==typeof
global?global:"undefined"!==typeof self?self:"undefined"!==typeof
window?window:{}),{"/createCtorWrapper":101}],106:[function(e,t,n){function r(e,t,n,r,y,v,b,w){var
_=t&h;if(!_&&"function"!==typeof e)throw new TypeError(m);var x=r?r.length:0;if(x||(t&&~(f|d),r=y=void 0),x-
=y?y.length:0,t&d){var A=r,S=y;r=y=void 0}var j=_?void
0:l(e),E=[e,t,n,r,y,A,S,v,b,w];if(j&&(u(E,j),t=E[1],w=E[9]),E[9]=null==w?_?0:e.length:g(w-x,0)||0,t==p)var
O=a(E[0],E[2]);else O=t|=f&&t!==(p|f)|E[4].length?o.apply(void
0,E):s.apply(void 0,E);var k=j?i:c;return k(O,E)} var
i=e("./baseSetData"),a=e("./createBindWrapper"),o=e("./createHybridWrapper"),s=e("./createPartialWrapper"),l=e("
./getData"),u=e("./mergeData"),c=e("./setData"),p=1,h=2,f=32,d=64,m="Expected a
function",g=Math.max;t.exports=r},{"/baseSetData":88,"./createBindWrapper":100,"./createHybridWrapper":104,"
./createPartialWrapper":105,"./getData":110,"./mergeData":128,"./setData":133}],107:[function(e,t,n){function
r(e,t,n,r,a,o,s){var l=-1,u=e.length,c=t.length;if(u!=c&&!(a&&c>u))return!1;for(++l<u;){var
p=e[l],h=t[l],f=r?r(a?h:p,a?h:l):void 0;if(void 0!==f){if(f.continue;return!1}if(a){if(!i(t,function(e){return
p===e||n(p,e,r,a,o,s)}))return!1} else if(p!==h&&!n(p,h,r,a,o,s))return!1}return!0} var
i=e("./arraySome");t.exports=r},{"/arraySome":65}],108:[function(e,t,n){function r(e,t,n){switch(n){case i:case
a:return e===t;case o:return e.name==t.name&&e.message==t.message;case s:return e!+=e?t!+=t:e===t;case
l:case u:return e===t+""}return!1} var i="[object Boolean]",a="[object Date]",o="[object Error]",s="[object
Number]",l="[object RegExp]",u="[object String]";t.exports=r},{}],109:[function(e,t,n){function r(e,t,n,r,a,s,l){var

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u=i(e),c=u.length,p=i(t),h=p.length;if(c!=h&&!a)return 1;for(var f=c;f--){var d=u[f];if(!(a?d in
t.o.call(t,d)))return 1}for(var m=a;++f<c;){d=u[f];var g=e[d],y=t[d],v=r?(a?y:g,a?g:y,d):void 0;if(!(void
0===v?n(g,y,r,a,s,l):v))return 1;m||(m="constructor"==d)}if(!m){var
b=e.constructor,w=t.constructor;if(b!=w&&"constructor" in e&&"constructor" in t&&!("function"==typeof b&&b
instanceof b&&"function"==typeof w&&w instanceof w))return 1}return 0}var
i=e("./object/keys"),a=Object.prototype,o=a.hasOwnProperty;t.exports=r},{ "./object/keys":149}],110:[function(e,t,
n){var r=e("./metaMap"),i=e("./utility/noop"),a=r?function(e){return
r.get(e)};t.exports=a},{ "./utility/noop":155,"./metaMap":129}],111:[function(e,t,n){function r(e){for(var
t=e.name+"",n=i[t],r=n?n.length:0;r--){var
a=n[r],o=a.func;if(null==o||o==e)return a.name}return t}var
i=e("./realNames");t.exports=r},{ "./realNames":130}],112:[function(e,t,n){var
r=e("./baseProperty"),i=r("length");t.exports=i},{ "./baseProperty":86}],113:[function(e,t,n){function r(e){for(var
t=a(e),n=t.length;n--){t[n][2]=i(t[n][1]);return t}var
i=e("./isStrictComparable"),a=e("./object/pairs");t.exports=r},{ "./object/pairs":151,"./isStrictComparable":127}],11
4:[function(e,t,n){function r(e,t){var n=null==e?void 0:e[t];return i(n)?n:void 0}var
i=e("./lang/isNative");t.exports=r},{ "./lang/isNative":143}],115:[function(e,t,n){function r(e,t,n){for(var
r=e.length,i=t+(n?0:-1);n?i--:++i<r;){var a=e[i];if(a!==a)return i}return-
1}t.exports=r},{ }],116:[function(e,t,n){function r(e){var t=e.length,n=new e.constructor(t);return
t&&"string"==typeof e[0]&&a.call(e,"index")&&(n.index=e.index,n.input=e.input),n}var
i=Object.prototype,a=i.hasOwnProperty;t.exports=r},{ }],117:[function(e,t,n){(function(n){function r(e,t,n){var
r=e.constructor;switch(t){case c:return i(e);case a:case o:return new r(+e);case p:case h:case f:case d:case m:case
g:case y:case v:case b:r instanceof r&&(r=x[t]);var _=e.buffer;return new r(n?(i(_):_.byteOffset,e.length);case
s:case u:return new r(e);case l:var A=new r(e.source,w.exec(e));A.lastIndex=e.lastIndex}return A}var
i=e("./bufferClone"),a="[object Boolean]",o="[object Date]",s="[object Number]",l="[object RegExp]",u="[object
String]",c="[object ArrayBuffer]",p="[object Float32Array]",h="[object Float64Array]",f="[object
Int8Array]",d="[object Int16Array]",m="[object Int32Array]",g="[object Uint8Array]",y="[object
Uint8ClampedArray]",v="[object Uint16Array]",b="[object
Uint32Array]",w=/^w*$/,_=n.Uint8Array,x={};x[p]=n.Float32Array,x[h]=n.Float64Array,x[f]=n.Int8Array,x[d]=n.I
nt16Array,x[m]=n.Int32Array,x[g]=_,x[y]=n.Uint8ClampedArray,x[v]=n.Uint16Array,x[b]=n.Uint32Array,t.export
s=r).call(this,"undefined"!=",type of global?global:"undefined"!=",type of self?self:"undefined"!=",type of
window?window: {}),{ "./bufferClone":95}],118:[function(e,t,n){function r(e){var
t=e.constructor;return"function"==typeof t&&t instanceof t|(t=Object),new
t}t.exports=r},{ }],119:[function(e,t,n){function r(e){return null!=e&&a(i(e))}var
i=e("./getLength"),a=e("./isLength");t.exports=r},{ "./getLength":112,"./isLength":125}],120:[function(e,t,n){var
r=function(){
try{Object({toString:0}+"")}catch(e){return function(){return 1}}return function(e){return"function"!=",type of
e.toString&&"string"==typeof(e+"")})();t.exports=r},{ }],121:[function(e,t,n){function r(e,t){return
e="number"==typeof e||i.test(e)?+e:-1,t=null==t?a:t,e>-1&&% 1==0&&e<t}var
i=/^d+$/a=9007199254740991;t.exports=r},{ }],122:[function(e,t,n){function r(e,t,n){if(!o(n))return 1;var r=typeof
t;if("number"==r?i(n)&&a(t,n.length):"string"==r&&t in n){var s=n[t];return e===e?e===s:s!==s}return 1}var
i=e("./isArrayLike"),a=e("./isIndex"),o=e("./lang/isObject");t.exports=r},{ "./lang/isObject":144,"./isArrayLike":11
9,"./isIndex":121}],123:[function(e,t,n){function
r(e,t){var n=typeof e;if("string"==n&&s.test(e)||"number"==n)return 0;if(i(e))return 1;var r=!o.test(e);return
r||null!=t&&e in a(t)}var
i=e("./lang/isArray"),a=e("./toObject"),o=/\.[^[\]]*(\[""])?(?!1)[^\n\\]\.\.?*\1)/s=/^w*$/;t.exports=r},{ "./la
ng/isArray":140,"./toObject":135}],124:[function(e,t,n){function r(e){var t=o(e),n=s[t];if("function"!=",type of n||!(t in
i.prototype))return 1;if(e===n)return 0;var r=a(n);return !r&&e===r[0]}var
i=e("./LazyWrapper"),a=e("./getData"),o=e("./getFuncName"),s=e("./chain/lodash");t.exports=r},{ "./chain/lodash":

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51, "/LazyWrapper":60, "/getData":110, "/getFuncName":111}], 125:[function(e,t,n){function
r(e){return"number"==typeof e&&e>-1&&e%1==0&&e<=i}var
i=9007199254740991;t.exports=r},{}], 126:[function(e,t,n){function r(e){return!!e&&"object"==typeof
e}t.exports=r},{}], 127:[function(e,t,n){function r(e){return e===e&&!i(e)}var
i=e("./lang/isObject");t.exports=r},{ "./lang/isObject":144}], 128:[function(e,t,n){function
r(e,t){var
n=e[1],r=t[1],m=n|r,g=m<p,y=r==p&&n==c||r==p&&n==h&&e[7].length<=t[8]||r==(p|h)&&n==c;if(!g&&!y)retur
n e;r&l&&(e[2]=t[2],m|=n&l?0:u);var v=t[3];if(v){var b=e[3];e[3]=b?a(b,v,t[4]):i(v),e[4]=b?s(e[3],f):i(t[4])}return
v=t[5],v&&(b=e[5],e[5]=b?o(b,v,t[6]):i(v),e[6]=b?s(e[5],f):i(t[6])),v=t[7],v&&(e[7]=i(v)),r&p&&(e[8]=null==e[8]?
t[8]:d(e[8],t[8])),null==e[9]&&(e[9]=t[9]),e[0]=t[0],e[1]=m,e}var
i=e("./arrayCopy"),a=e("./composeArgs"),o=e("./composeArgsRight"),s=e("./replaceHolders"),l=1,u=4,c=8,p=128,h
=256,f="__lodash_placeholder__",d=Math.min;t.exports=r},{ "./arrayCopy":62, "/composeArgs":96, "/composeArgs
Right":97, "/replaceHolders":132}], 129:[function(e,t,n){(function(n){var
r=e("./getNative"),i=r(n,"WeakMap"),a=i&&new i;t.exports=a}).call(this,"undefined"!=typeof
global?global:"undefined"!=typeof self?self:"undefined"!=typeof
window?window:{})},{ "./getNative":114}], 130:[function(e,t,n){var
r={};t.exports=r},{}], 131:[function(e,t,n){function
r(e,t){for(var n=e.length,r=o(t.length,n),s=i(e);r--){var l=t[r];e[r]=a(l,n)?s[l]:void 0}return e}var
i=e("./arrayCopy"),a=e("./isIndex"),o=Math.min;t.exports=r},{ "./arrayCopy":62, "/isIndex":121}], 132:[function(e,t,
n){function r(e,t){for(var n=-1,r=e.length,a=-1,o=[];++n<r;)e[n]===t&&(e[n]=i,o[++a]=n);return o}var
i="__lodash_placeholder__";t.exports=r},{}], 133:[function(e,t,n){var
r=e("./baseSetData"),i=e("./date/now"),a=150,o=16,s=function(){var e=0,t=0;return function(n,s){var l=i(),u=o-(l-
t);if(t=1,u>0){if(++e>=a)return n}else e=0;return
r(n,s)}();t.exports=s},{ "./date/now":57, "/baseSetData":88}], 134:[function(e,t,n){function r(e){for(var
t=u(e),n=t.length,r=n&&e.length,c=!r&&s(r)&&(a(e)||i(e)||l(e)),h=-1,f=[];++h<n){var
d=t[h];(c&&o(d,r)||p.call(e,d)&&f.push(d))return f}var
i=e("./lang/isArguments"),a=e("./lang/isArray"),o=e("./isIndex"),s=e("./isLength"),l=e("./lang/isString"),u=e("./ob
ject/keysIn"),c=Object.prototype,p=c.hasOwnProperty;t.exports=r},{ "./lang/isArguments":139, "/lang/isArray":14
0, "/lang/isString":146, "/object/keysIn":150, "/isIndex":121, "/isLength":125}], 135:[function(e,t,n){function
r(e){if(o.unindexedChars&&a(e)){for(var t=-1,n=e.length,r=Object(e);++t<n;)r[t]=e.charAt(t);return r}return
i(e)?e:Object(e)}var
i=e("./lang/isObject"),a=e("./lang/isString"),o=e("./support");t.exports=r},{ "./lang/isObject":144, "/lang/isString":
146, "/support":153}], 136:[function(e,t,n){function r(e){if(a(e))return e;var t=[];return
i(e).replace(o,function(e,n,r,i){t.push(r?i.replace(s,"$1"):n|e)},t)}var
i=e("./baseToString"),a=e("./lang/isArray"),o=/[\^\.\[\]]+|[?:(-
?d+(?:\.\d+)?)(["'])(?:!(?![^\n\\]|\\.)*?)\2)/g,s=/\\(\\)?/g;t.exports=r},{ "./lang/isArray":140, "/baseToString":90
}], 137:[function(e,t,n){function r(e){return e instanceof i?e.clone():new
a(e.__wrapped__,e.__chain__,o(e.__actions__))}var
i=e("./LazyWrapper"),a=e("./LodashWrapper"),o=e("./arrayCopy");t.exports=r},{ "./LazyWrapper":60, "/LodashWra
pper":61, "/arrayCopy":62}], 138:[function(e,t,n){function
r(e,t,n){return"function"==typeof t?i(e,!0,a(t,n,3)):i(e,!0)}var
i=e("./internal/baseClone"),a=e("./internal/bindCallback");t.exports=r},{ "./internal/baseClone":68, "/internal/bind
Callback":94}], 139:[function(e,t,n){function r(e){return a(e)&&i(e)&&s.call(e,"callee")&&!l.call(e,"callee")}var
i=e("./internal/isArrayLike"),a=e("./internal/isObjectLike"),o=Object.prototype,s=o.hasOwnProperty,l=o.propertyI
sEnumerable;t.exports=r},{ "./internal/isArrayLike":119, "/internal/isObjectLike":126}], 140:[function(e,t,n){var
r=e("./internal/getNative"),i=e("./internal/isLength"),a=e("./internal/isObjectLike"),o="[object
Array]",s=Object.prototype,l=s.toString,u=r(Array,"isArray"),c=u||function(e){return
a(e)&&i(e.length)&&l.call(e)==o};t.exports=c},{ "./internal/getNative":114, "/internal/isLength":125, "/internal/is

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ObjectLike":126}],141:[function(e,t,n){function r(e){return
null==e||o(e)&&(a(e)||u(e)||i(e)||l(e)&&s(e.splice))?!e.length:!c(e).length}var
i=e("./isArguments"),a=e("./isArray"),o=e("../internal/isArrayLike"),s=e("./isFunction"),l=e("../internal/isObjectLike
"),u=e("./isString"),c=e("../object/keys");t.exports=r},{../internal/isArrayLike":119,../internal/isObjectLike":126,
../object/keys":149,./isArguments":139,./isArray":140,./isFunction":142,./isString":146}],142:[function(e,t,n){fu
nction r(e){return i(e)&&s.call(e)==a}var i=e("./isObject"),a="[object
Function]",o=Object.prototype,s=o.toString;t.exports=r},{./isObject":144}],143:[function(e,t,n){function
r(e){return null!=e&&(i(e)?p.test(u.call(e)):o(e)&&(a(e)?p:s).test(e))}var
i=e("./isFunction"),a=e("../internal/isHostObject"),o=e("../internal/isObjectLike"),s=/^[object
.+?Constructor]$/,l=Object.prototype,u=Function.prototype.toString,c=l.hasOwnProperty,p=RegExp("^"+u.call(c).r
eplace(/[\^\$\.*+?()\[\]\{\}\|]/g,"\\$&").replace(/hasOwnProperty|(function).*?(?=\\\()| for
.+?(?=\\\))/g,"$1.*?")+"$");t.exports=r},{../internal/isHostObject":120,../internal/isObjectLike":126,./isFunction":
142}],144:[function(e,t,n){function
r(e){var t=typeof e;return!!e&&("object"==t||"function"==t)}t.exports=r},{}],145:[function(e,t,n){function r(e){var
t;if(!s(e)||h.call(e)!=u||o(e)||a(e)||!p.call(e,"constructor")&&(t=e.constructor,"function"==typeof t&&!(t instanceof
t)))return!1;var n;return l.ownLast?(i(e,function(e,t,r){return n=p.call(r,t,!1)),n!==!1):(i(e,function(e,t){n=t}),void
0===n||p.call(e,n))}var
i=e("../internal/baseForIn"),a=e("./isArguments"),o=e("../internal/isHostObject"),s=e("../internal/isObjectLike"),l=e(
../support"),u="[object
Object]",c=Object.prototype,p=c.hasOwnProperty,h=c.toString;t.exports=r},{../internal/baseForIn":75,../internal/i
sHostObject":120,../internal/isObjectLike":126,../support":153,./isArguments":139}],146:[function(e,t,n){functio
n r(e){return"string"==typeof e||i(e)&&s.call(e)==a}var i=e("../internal/isObjectLike"),a="[object
String]",o=Object.prototype,s=o.toString;t.exports=r},{../internal/isObjectLike":126}],147:[function(e,t,n){functio
n
r(e){return a(e)&&i(e.length)&&!!T[I.call(e)]}var
i=e("../internal/isLength"),a=e("../internal/isObjectLike"),o="[object Arguments]",s="[object Array]",l="[object
Boolean]",u="[object Date]",c="[object Error]",p="[object Function]",h="[object Map]",f="[object
Number]",d="[object Object]",m="[object RegExp]",g="[object Set]",y="[object String]",v="[object
WeakMap]",b="[object ArrayBuffer]",w="[object Float32Array]",_="[object Float64Array]",x="[object
Int8Array]",A="[object Int16Array]",S="[object Int32Array]",j="[object Uint8Array]",E="[object
Uint8ClampedArray]",O="[object Uint16Array]",k="[object
Uint32Array]",T={};T[w]=T[_]=T[x]=T[A]=T[S]=T[j]=T[E]=T[O]=T[k]=!0,T[o]=T[s]=T[b]=T[l]=T[u]=T[c]=T[p]
=T[h]=T[f]=T[d]=T[m]=T[g]=T[y]=T[v]=!1;var
C=Object.prototype,I=C.toString;t.exports=r},{../internal/isLength":125,../internal/isObjectLike":126}],148:[funct
ion(e,t,n){function r(e){return void 0===e}t.exports=r},{}],149:[function(e,t,n){var
r=e("../internal/getNative"),i=e("../internal/isArrayLike"),a=e("../lang/isObject"),o=e("../internal/shimKeys"),s=e("../
support"),l=r(Object,"keys"),u=l?function(e){var
t=null==e?void 0:e.constructor;return"function"==typeof t&&t.prototype===e||("function"==typeof
e?s.enumPrototypes:i(e))?o(e):a(e)?l(e):[];o:t.exports=u},{../internal/getNative":114,../internal/isArrayLike":119,
../internal/shimKeys":134,../lang/isObject":144,../support":153}],150:[function(e,t,n){function
r(e){if(null==e)return[];c(e)|(e=Object(e));var t=e.length;t=t&&u(t)&&o(e)||a(e)||p(e)&&t||0;for(var
n=e.constructor,r=-1,i=s(n)&&n.prototype||S,f=i===e,d=Array(t),m=t>0,y=h.enumErrorProps&&(e===A||e
instanceof Error),v=h.enumPrototypes&&s(e);++r<t;d[r]=r+"";for(var w in
e)v&&"prototype"==w||y&&("message"==w||"name"==w)||m&&l(w,t)||"constructor"==w&&(f?!E.call(e,w))||d.push
h(w);if(h.nonEnumShadows&&e!=S){var
T=e===j?_:e===A?g:O.call(e),C=k[T]|k[b];for(T==b&&(i=S),t=x.length;t--){w=x[t];var
I=C[w];f&&I||(!E.call(e,w):e[w]===i[w])||d.push(w)}return

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d}var
i=e("../internal/arrayEach"),a=e("../lang/isArguments"),o=e("../lang/isArray"),s=e("../lang/isFunction"),l=e("../intern
al/isIndex"),u=e("../internal/isLength"),c=e("../lang/isObject"),p=e("../lang/isString"),h=e("../support"),f="[object
Array]",d="[object Boolean]",m="[object Date]",g="[object Error]",y="[object Function]",v="[object
Number]",b="[object Object]",w="[object RegExp]",_="[object
String]",x="[constructor","hasOwnProperty","isPrototypeOf","propertyIsEnumerable","toLocaleString","toString","
valueOf"],A=Error.prototype,S=Object.prototype,j=String.prototype,E=S.hasOwnProperty,O=S.toString,k={};k[f]=
k[m]=k[v]={constructor:!0,toLocaleString:!0,toString:!0,valueOf:!0},k[d]=k[_]={constructor:!0,toString:!0,valueOf
:!0},k[g]=k[y]=k[w]={constructor:!0,toString:!0},k[b]={constructor:!0},i(x,function(e){for(var t in
k)if(E.call(k,t)){var
n=k[t];n[e]=E.call(n,e)}),t.exports=r},{ "../internal/arrayEach":63,"../internal/isIndex":121,"../internal/isLength":12
5,"../lang/isArguments":139,"../lang/isArray":140,"../lang/isFunction":142,"../lang/isObject":144,"../lang/isString":1
46,"../support":153}],151:[function(e,t,n){function
r(e){e=a(e);for(var t=-1,n=i(e),r=n.length,o=Array(r);++t<r;){var s=n[t];o[t]=[s,e[s]]}return o}var
i=e("../keys"),a=e("../internal/toObject");t.exports=r},{ "../internal/toObject":135,"../keys":149}],152:[function(e,t,n){f
unction r(e){return i(e,a(e))}var
i=e("../internal/baseValues"),a=e("../keys");t.exports=r},{ "../internal/baseValues":91,"../keys":149}],153:[function(e,t
,n){var
r=Array.prototype,i=Error.prototype,a=Object.prototype,o=a.propertyIsEnumerable,s=r.splice,l={};!function(e){var
t=function(){this.x=e},n={0:e,length:e},r=[];t.prototype={valueOf:e,y:e};for(var a in new
t)r.push(a);l.enumErrorProps=o.call(i,"message")||o.call(i,"name"),l.enumPrototypes=o.call(t,"prototype"),l.nonEnu
mShadows=!/valueOf/.test(r),l.ownLast="x"!=[r],l.spliceObjects=(s.call(n,0,1),[n[0]]),l.unindexedChars="x"[0]+Ob
ject("x")[0]!="xx")(1,0),t.exports=l},{}],154:[function(e,t,n){function
r(e){return e}t.exports=r},{}],155:[function(e,t,n){function r(o){t.exports=r},{}],156:[function(e,t,n){function
r(e){return o(e)?i(e):a(e)}var
i=e("../internal/baseProperty"),a=e("../internal/basePropertyDeep"),o=e("../internal/isKey");t.exports=r},{ "../internal/
baseProperty":86,"../internal/basePropertyDeep":87,"../internal/isKey":123}],157:[function(e,n,r){(function(e){!fun
ction(e){"use strict";if("function"===typeof bootstrap)bootstrap("promise",e);else if("object"===typeof
r&&"object"===typeof n)n.exports=e();else if("function"===typeof t&&t.amd)t(e);else if("undefined"!==typeof
ses){if(!ses.ok())return;ses.makeQ=e}else if("undefined"===typeof window&&"undefined"===typeof self)throw new
Error("This environment was not anticipated by Q. Please file a bug.");var i="undefined"!==typeof
window?window:self,a=i.Q,i.Q=e(),i.Q.noConflict=function(){return i.Q=a,this}}(function(){"use strict";function
t(e){return function(){return Q.apply(e,arguments)}}function
n(e){return e===Object(e)}function r(e){return "[object StopIteration]"===re(e)||e instanceof H}function
i(e,t){if($&&t.stack&&"object"===typeof e&&null!==e&&e.stack&&e.stack.indexOf(ie)===-1){for(var
n=[],r=t;r=r.source)r.stack&&n.unshift(r.stack);n.unshift(e.stack);var i=n.join("\n"+ie+"\n");e.stack=a(i)}}function
a(e){for(var t=e.split("\n"),n=[],r=0;r<t.length;++r){var i=t[r];l(i)||o(i)||i||n.push(i)}return n.join("\n")}}function
o(e){return e.indexOf("(module.js:")===-1||e.indexOf("(node.js:")===-1}function s(e){var t=/at .+
\\((+):(\d+):(\d+)\)$/.exec(e);if(t)return[t[1],Number(t[2])];var n=/at ([^
]+):(\d+):(\d+)\)$/.exec(e);if(n)return[n[1],Number(n[2])];var r=/. *@ (.+):(\d+)\$/.exec(e);return
r?[r[1],Number(r[2]):void 0]}function l(e){var t=s(e);if(!t)return!1;var n=t[0],r=t[1];return
n===V&&r>=Y&&r<=ue}function u(o){if($)try{throw new Error}catch(e){var
t=e.stack.split("\n"),n=t[0].indexOf("@")>0?t[1]:t[2],r=s(n);if(!r)return;return V=r[0],r=r[1]}}function c(e,t,n){return
function(){return"undefined"!==typeof console&&"function"===typeof console.warn&&console.warn(t+" is
deprecated, use "+n+" instead.",new Error("").stack),e.apply(e,arguments)}}function p(e){return e instanceof
m?e:b(e)?k(e):O(e)}function h(o){function
e(e){t=e,a.source=e,K(n,function(t,n){p.nextTick(function(){e.promiseDispatch.apply(e,n)}),void 0),n=void
0,r=void 0}var t,n=[],r=[],i=ee(h.prototype),a=ee(m.prototype);if(a.promiseDispatch=function(e,i,a){var

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o=G(arguments);n?(n.push(o),"when"===i&&a[1]&&r.push(a[1]):p.nextTick(function(){t.promiseDispatch.apply(t
,o)}),a.valueOf=function(){if(n)return a;var e=y(t);return v(e)&&(t=e),e},a.inspect=function(){return
t?t.inspect():{state:"pending"}},p.longStackSupport&&$)try{throw new
Error}catch(o){a.stack=o.stack.substring(o.stack.indexOf("\n")+1)}return
i.promise=a,i.resolve=function(n){t|e(p(n))},i.fulfill=function(n){t|e(O(n))},i.reject=function(n){t|e(E(n))},i.notify
=function(e){t|K(r,function(t,n){p.nextTick(function(){n(e)})),void
0)},i}function f(e){if("function"!==typeof e)throw new TypeError("resolver must be a function.");var
t=h();try{e(t.resolve,t.reject,t.notify)}catch(n){t.reject(n)}return t.promise}function d(e){return
f(function(t,n){for(var r=0,i=e.length;r<i;r++)p(e[r]).then(t,n)})}function m(e,t,n){void
0===t&&(t=function(e){return E(new Error("Promise does not support operation: "+e))}),void
0===n&&(n=function(){return{state:"unknown"}});var r=ee(m.prototype);if(r.promiseDispatch=function(n,i,a){var
o;try{o=e[i]?e[i].apply(r,a):t.call(r,i,a)}catch(s){o=E(s)}n&&n(o)},r.inspect=n,n){var
i=n();"rejected"===i.state&&(r.exception=i.reason),r.valueOf=function(){var
e=n();return"pending"===e.state||"rejected"===e.state?r.e.value}}return r}function g(e,t,n,r){return
p(e).then(t,n,r)}function y(e){if(v(e)){var t=e.inspect();if("fulfilled"===t.state)return t.value}return e}function
v(e){return e instanceof m}function b(e){return n(e)&&"function"===typeof e.then}function w(e){return
v(e)&&"pending"===e.inspect().state}function
_(e){return!v(e)||"fulfilled"===e.inspect().state}function x(e){return v(e)&&"rejected"===e.inspect().state}function
A(){ae.length=0,oe.length=0,le||(le=!0)}function S(t,n){le&&("object"===typeof e&&"function"===typeof
e.emit&&p.nextTick.runAfter(function(){X(oe,t)!==
1&&(e.emit("unhandledRejection",n,t),se.push(t))),oe.push(t),n&&"undefined"!==typeof
n.stack?ae.push(n.stack):ae.push("no stack "+n)}function j(t){if(le){var n=X(oe,t);n!==-1&&("object"===typeof
e&&"function"===typeof e.emit&&p.nextTick.runAfter(function(){var r=X(se,t);r!==-
1&&(e.emit("rejectionHandled",ae[n],t),se.splice(r,1))),oe.splice(n,1),ae.splice(n,1)}}}function E(e){var
t=m({when:function(t){return t&&j(this),t?t(e):this}},function(){return
this},function(){return{state:"rejected",reason:e}});return S(t,e,t)}function O(e){return m({when:function(){return
e},get:function(t){return e[t]},set:function(t,n){e[t]=n},"delete":function(t){delete e[t]},post:function(t,n){return
null===t||void
0===t?e.apply(void 0,n):e[t].apply(e,n)},apply:function(t,n){return e.apply(t,n)},keys:function(){return
ne(e)}),void 0,function(){return{state:"fulfilled",value:e}})}function k(e){var t=h();return
p.nextTick(function(){try{e.then(t.resolve,t.reject,t.notify)}catch(n){t.reject(n)}},t.promise)}function T(e){return
m({isDef:function(){}},function(t,n){return R(e,t,n)},function(){return p(e).inspect()})}function C(e,t,n){return
p(e).spread(t,n)}function I(e){return function(){function t(e,t){var o;if("undefined"===typeof
StopIteration){try{o=n[e](t)}catch(s){return E(s)}return
o.done?p(o.value):g(o.value,i,a)}try{o=n[e](t)}catch(s){return r(s)?p(s.value):E(s)}return g(o,i,a)}var
n=e.apply(this,arguments),i=t.bind(t,"next"),a=t.bind(t,"throw");return i()}}function
D(e){p.done(p.async(e))}function L(e){throw new H(e)}function M(e){return function(){return
C([this,U(arguments)],function(t,n){return e.apply(t,n)}})}function R(e,t,n){return p(e).dispatch(t,n)}function
U(e){return g(e,function(e){var
t=0,n=h();return K(e,function(r,i,a){var
o;v(i)&&"fulfilled"===(o=i.inspect()).state?e[a]=o.value:(++t,g(i,function(r){e[a]=r,0===--
t&&n.resolve(e)},n.reject,function(e){n.notify({index:a,value:e}})})),void
0),0===t&&n.resolve(e),n.promise}})function P(e){if(0===e.length)return p.resolve();var t=p.defer(),n=0;return
K(e,function(r,i,a){function o(e){t.resolve(e)}function s(){n--;0===n&&t.reject(new Error("Can't get fulfillment
value from any promise, all promises were rejected.))}function l(e){t.notify({index:a,value:e})}var
u=e[a];n++,g(u,o,s,l),void 0),t.promise}function q(e){return g(e,function(e){return
e=Z(e,p),g(U(Z(e,function(e){return g(e,J,J)})),function(){return e}))}function B(e){return
p(e).allSettled()}function N(e,t){return p(e).then(void 0,void 0,t)}function z(e,t){return p(e).nodeify(t)}var

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$=!1;try{throw new Error}catch(F){$=!F.stack}var V,H,Y=u(),J=function(){},W=function(){function t(){for(var
e,t;r.next;)r=r.next,e=r.task,r.task=void 0,t=r.domain,t&&(r.domain=void
0,t.enter()),n(e,t);for(;l.length;)e=l.pop(),n(e);a=!1}function n(e,n){try{e()}catch(r){if(s)throw
n&&n.exit(),setTimeout(t,0),n&&n.enter(),r;setTimeout(function(){throw r},0)}n&&n.exit()}var r={task:void
0,next:null},i=r,a=!1,o=void
0,s=!1,l=[];if(W=function(t){i=i.next={task:t,domain:s&&e.domain,next:null},a||(a=!0,o())},"object"===typeof
e&&"[object process]"===e.toString()&&e.nextTick)s=!0,o=function(){e.nextTick(t)};else if("function"===typeof
setImmediate)o="undefined"!==typeof window?setImmediate.bind(window,t):function(){setImmediate(t)};else
if("undefined"!==typeof MessageChannel){var u=new
MessageChannel;u.port1.onmessage=function(){o=c,u.port1.onmessage=t,t()};var
c=function(){u.port2.postMessage(0)};o=function(){setTimeout(t,0,c)}}else o=function(){setTimeout(t,0)};return
W.runAfter=function(e){l.push(e),a||(a=!0,o())},W(),Q=Function.call,G=t(Array.prototype.slice),K=t(Array.protot
ype.reduce||function(e,t){var n=0,r=this.length;if(1===arguments.length)for(;;){if(n
in this){t=this[n++];break}if(++n>=r)throw new TypeError}for(;n<r;n++)n in this&&(t=e(t,this[n],n));return
t}),X=t(Array.prototype.indexOf||function(e){for(var t=0;t<this.length;t++)if(this[t]===e)return t;return-
1}),Z=t(Array.prototype.map||function(e,t){var n=this,r=[];return K(n,function(i,a,o){r.push(e.call(t,a,o,n))},void
0,r)),ee=Object.create||function(e){function t(){return t.prototype=e,new
t},te=t(Object.prototype.hasOwnProperty),ne=Object.keys||function(e){var t=[];for(var n in
e)te(e,n)&&t.push(n);return t},re=t(Object.prototype.toString);H="undefined"!==typeof
ReturnValue?ReturnValue:function(e){this.value=e};var ie="From previous
event:";p.resolve=p,p.nextTick=W,p.longStackSupport=!1,"object"===typeof
e&&e&&e.env&&e.env.Q_DEBUG&&(p.longStackSupport=!0),p.defer=h,h.prototype.makeNodeResolver=functio
n(){var e=this;return
function(t,n){t?e.reject(t):arguments.length>2?e.resolve(G(arguments,1)):e.resolve(n)},p.Promise=f,p.promise=f,f.r
ace=d,f.all=U,f.reject=E,f.resolve=p,p.passByCopy=function(e){return
e},m.prototype.passByCopy=function(){return this},p.join=function(e,t){return
p(e).join(t)},m.prototype.join=function(e){return p([this,e]).spread(function(e,t){if(e===t)return e;throw new
Error("Can't join: not the same: "+e+" "+t)}),p.race=d,m.prototype.race=function(){return
this.then(p.race)},p.makePromise=m,m.prototype.toString=function(){return"[object
Promise]"},m.prototype.then=function(e,t,n){function r(t){try{return"function"===typeof e?e(t):t}catch(n){return
E(n)}}function a(e){if("function"===typeof t){i(e,s);try{return t(e)}catch(n){return E(n)}}return E(e)}function
o(e){return"function"===typeof n?n(e):e}var s=this,l=h(),u=!1;return
p.nextTick(function(){s.promiseDispatch(function(e){u||(u=!0,l.resolve(r(e))),s.promiseDispatch(void 0,"when",[void 0,function(e){var
t,n=!1;try{t=o(e)}catch(r){if(n=!0,!p.onerror)throw
r;p.onerror(r)}n||l.notify(t)}),l.promise)},p.tap=function(e,t){return p(e).tap(t)},m.prototype.tap=function(e){return
e=p(e),this.then(function(t){return
e.fcallee(t).thenResolve(t)}),p.when=g,m.prototype.thenResolve=function(e){return this.then(function(){return
e}}),p.thenResolve=function(e,t){return p(e).thenResolve(t)},m.prototype.thenReject=function(e){return
this.then(function(){throw e}}),p.thenReject=function(e,t){return
p(e).thenReject(t)},p.nearer=y,p.isPromise=v,p.isPromiseAlike=b,p.isPending=w,m.prototype.isPending=function()
{return"pending"===this.inspect().state},p.isFulfilled=_,m.prototype.isFulfilled=function(){return"fulfilled"===this
.inspect().state},p.isRejected=x,m.prototype.isRejected=function(){return"rejected"===this.inspect().state};var
ae=[],oe=[],se=[],le=!0;p.resetUnhandledRejections=A,p.getUnhandledReasons=function(){return
ae.slice()},p.stopUnhandledRejectionTracking=function(){A(),le=!1},A(),p.reject=E,p.fulfill=O,p.master=T,p.sprea
d=C,m.prototype.spread=function(e,t){return this.all().then(function(t){return e.apply(void
0,t)},t)},p.async=I,p.spawn=D,p["return"]=L,p.promised=M,p.dispatch=R,m.prototype.dispatch=function(e,t){var

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n=this,r=h();return p.nextTick(function(){n.promiseDispatch(r.resolve,e,t)},r.promise),p.get=function(e,t){return
p(e).dispatch("get",[t]),m.prototype.get=function(e){return this.dispatch("get",[e])},p.set=function(e,t,n){return
p(e).dispatch("set",[t,n]),m.prototype.set=function(e,t){return
this.dispatch("set",[e,t]),p.del=p["delete"]=function(e,t){return
p(e).dispatch("delete",[t]),m.prototype.del=m.prototype["delete"]=function(e){return
this.dispatch("delete",[e])},p.mapply=p.post=function(e,t,n){return
p(e).dispatch("post",[t,n]),m.prototype.mapply=m.prototype.post=function(e,t){return
this.dispatch("post",[e,t]),p.send=p.mcall=p.invoke=function(e,t){return
p(e).dispatch("post",[t,G(arguments,2)]),m.prototype.send=m.prototype.mcall=m.prototype.invoke=function(e){ret
urn this.dispatch("post",[e,G(arguments,1)]),p.fapply=function(e,t){return p(e).dispatch("apply",[void
0,t]),m.prototype.fapply=function(e){return
this.dispatch("apply",[void 0,e]),p["try"]=p.fcall=function(e){return p(e).dispatch("apply",[void
0,G(arguments,1)]),m.prototype.fcall=function(){return this.dispatch("apply",[void
0,G(arguments)])},p.fbind=function(e){var t=p(e),n=G(arguments,1);return function(){return
t.dispatch("apply",[this,n.concat(G(arguments))])},m.prototype.fbind=function(){var e=this,t=G(arguments);return
function(){return e.dispatch("apply",[this,t.concat(G(arguments))])},p.keys=function(e){return
p(e).dispatch("keys",[[]]),m.prototype.keys=function(){return
this.dispatch("keys",[[]]),p.all=U,m.prototype.all=function(){return
U(this)},p.any=P,m.prototype.any=function(){return
P(this)},p.allResolved=c(q,"allResolved","allSettled"),m.prototype.allResolved=function(){return
q(this)},p.allSettled=B,m.prototype.allSettled=function(){return this.then(function(e){return
U(Z(e,function(e){function t(){return e.inspect()}return
e=p(e),e.then(t,t))}),p.fail=p["catch"]=function(e,t){return
p(e).then(void 0,t),m.prototype.fail=m.prototype["catch"]=function(e){return this.then(void
0,e)},p.progress=N,m.prototype.progress=function(e){return this.then(void 0,void
0,e)},p.fin=p["finally"]=function(e,t){return
p(e)["finally"](t),m.prototype.fin=m.prototype["finally"]=function(e){return e=p(e),this.then(function(t){return
e.fcall().then(function(){return t}),function(t){return e.fcall().then(function(){throw
t}})},p.done=function(e,t,n,r){return p(e).done(t,n,r),m.prototype.done=function(t,n,r){var
a=function(e){p.nextTick(function(){if(i(e,o),!p.onerror)throw
e;p.onerror(e)}),o=t||n||r?this.then(t,n,r):this;"object"===typeof
e&&e&&e.domain&&(a=e.domain.bind(a)),o.then(void 0,a)},p.timeout=function(e,t,n){return
p(e).timeout(t,n),m.prototype.timeout=function(e,t){var n=h(),r=setTimeout(function(){t&&"string"!==typeof
t||(t=new Error(t||"Timed out after "+e+" ms"),t.code="ETIMEDOUT"),n.reject(t),e);return
this.then(function(e){clearTimeout(r),n.resolve(e)},function(e){clearTimeout(r),n.reject(e)},n.notify),n.promise},p.d
elay=function(e,t){return
void 0===t&&(t=e,e=void 0),p(e).delay(t),m.prototype.delay=function(e){return this.then(function(t){var
n=h();return setTimeout(function(){n.resolve(t)},e),n.promise}}),p.nfapply=function(e,t){return
p(e).nfapply(t),m.prototype.nfapply=function(e){var t=h(),n=G(e);return
n.push(t.makeNodeResolver()),this.fapply(n).fail(t.reject),t.promise},p.nfcall=function(e){var
t=G(arguments,1);return p(e).nfapply(t),m.prototype.nfcall=function(){var e=G(arguments),t=h();return
e.push(t.makeNodeResolver()),this.fapply(e).fail(t.reject),t.promise},p.nfbind=p.denodeify=function(e){var
t=G(arguments,1);return function(){var n=t.concat(G(arguments)),r=h();return
n.push(r.makeNodeResolver()),p(e).fapply(n).fail(r.reject),r.promise}},m.prototype.nfbind=m.prototype.denodeify=
function(){var e=G(arguments);return e.unshift(this),p.denodeify.apply(void 0,e)},p.nbind=function(e,t){var
n=G(arguments,2);return function(){function
r(){return e.apply(t,arguments)}var i=n.concat(G(arguments)),a=h();return
i.push(a.makeNodeResolver()),p(r).fapply(i).fail(a.reject),a.promise}},m.prototype.nbind=function(){var

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e=G(arguments,0);return e.unshift(this),p.nbind.apply(void 0,e)},p.nmapply=p.npost=function(e,t,n){return
p(e).npost(t,n)},m.prototype.nmapply=m.prototype.npost=function(e,t){var n=G(t||[]),r=h();return
n.push(r.makeNodeResolver()),this.dispatch("post",[e,n]).fail(r.reject),r.promise},p.nsend=p.nmcall=p.ninvoke=fun
ction(e,t){var n=G(arguments,2),r=h();return
n.push(r.makeNodeResolver()),p(e).dispatch("post",[t,n]).fail(r.reject),r.promise},m.prototype.nsend=m.prototype.n
mcall=m.prototype.ninvoke=function(e){var t=G(arguments,1),n=h();return
t.push(n.makeNodeResolver()),this.dispatch("post",[e,t]).fail(n.reject),n.promise},p.nodeify=z,m.prototype.nodeify=
function(e){return e?void
this.then(function(t){p.nextTick(function(){e(null,t)}),function(t){p.nextTick(function(){e(t)}):this},p.noConflict
=function(){throw
new Error("Q.noConflict only works when Q is used as a global")};var ue=u();return
p}}).call(this,e("_process")),[_process:12}],158:[function(e,t,n){function r(o){function i(e){if(!y(e))return e;var
t=[];for(var n in e)a(t,n,e[n]);return t.join("&")}function
a(e,t,n){if(null!=n)if(Array.isArray(n))n.forEach(function(n){a(e,t,n)});else if(y(n))for(var r in
n)a(e,t+"["+r+"]",n[r]);else e.push(encodeURIComponent(t)+"="+encodeURIComponent(n));else
null===n&&e.push(encodeURIComponent(t))}function o(e){for(var
t,n,r={},i=e.split("&"),a=0,o=i.length;a<o;++a)t=i[a],n=t.indexOf("="),n===-
1?r[decodeURIComponent(t)]="":r[decodeURIComponent(t.slice(0,n))]=decodeURIComponent(t.slice(n+1));return
r}function s(e){var t,n,r,i,a=e.split(/r?\n/),o={};a.pop();for(var
s=0,l=a.length;s<l;++s)n=a[s],t=n.indexOf(":"),r=n.slice(0,t).toLowerCase(),i=b(n.slice(t+1)),o[r]=i;return
o}function l(e){return/[v+]/.test(e)}function u(e){return e.split(/ *;/).shift()}function c(e){return e.split(/
 *;/).reduce(function(e,t){var n=t.split(/ *=/),r=n.shift(),i=n.shift();return r&&i&&(e[r]=i),e},{})}function
p(e,t){t=t||{};this.req=e,this.xhr=this.req.xhr,this.text="HEAD"!=this.req.method&&("===this.xhr.responseType||"t
ext"===this.xhr.responseType)||"undefined"===typeof
this.xhr.responseType?this.xhr.responseText:null,this.statusText=this.req.xhr.statusText,this._setStatusProperties(thi
s.xhr.status),this.header=this.headers=s(this.xhr.getAllResponseHeaders()),this.header["content-
type"]=this.xhr.getResponseHeader("content-
type"),this._setHeaderProperties(this.header),this.body="HEAD"!=this.req.method?this._parseBody(this.text?this.te
xt:this.xhr.response):null}function h(e,t){var
n=this;this._query=this._query||[],this.method=e,this.url=t,this.header={},this._header={},this.on("end",function(){v
ar e=null,t=null;try{t=new p(n)}catch(r){return e=new Error("Parser is unable to parse the
response"),e.parse=!0,e.original=r,e.rawResponse=n.xhr&&n.xhr.responseText?n.xhr.responseText:null,e.statusCod
e=n.xhr&&n.xhr.status?n.xhr.status:null,n.callback(e)}n.emit("response",t);var
i;try{(t.status<200||t.status>=300)&&(i=new Error(t.statusText||"Unsuccessful HTTP
response"),i.original=e,i.response=t,i.status=t.status)}catch(r){i=r}i?n.callback(i,t):n.callback(null,t)}}function
f(e,t){var n=v("DELETE",e);return t&&n.end(t),n}var d;"undefined"!=typeof
window?d=window:"undefined"!=typeof self?d=self:(console.warn("Using browser-only version of superagent in
non-browser environment"),d=this);var m=e("emitter"),g=e("./request-base"),y=e("./is-
object"),v=t.exports=e("./request").bind(null,h);v.getXHR=function(){if(!(d.XMLHttpRequest||d.location&&"file:"
===d.location.protocol&&d.ActiveXObject))return new XMLHttpRequest;try{return new
ActiveXObject("Microsoft.XMLHTTP")}catch(e){}try{return new
ActiveXObject("Msxml2.XMLHTTP.6.0")}catch(e){}try{return new
ActiveXObject("Msxml2.XMLHTTP.3.0")}catch(e){}try{return new
ActiveXObject("Msxml2.XMLHTTP")}catch(e){}throw Error("Browser-only
version of superagent could not find XHR");var b="" .trim?function(e){return e.trim()}:function(e){return
e.replace(/(^|s*|s*$)/g,"");v.serializeObject=i,v.parseString=o,v.types={html:"text/html",json:"application/json",x
ml:"application/xml",urlencoded:"application/x-www-form-urlencoded",form:"application/x-www-form-
urlencoded","form-data":"application/x-www-form-urlencoded"},v.serialize={"application/x-www-form-

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urlencoded":i,"application/json":JSON.stringify},v.parse={"application/x-www-form-
urlencoded":o,"application/json":JSON.parse},p.prototype.get=function(e){return
this.header[e.toLowerCase()]}},p.prototype._setHeaderProperties=function(e){var t=this.header["content-
type"]||"";this.type=u(t);var n=c(t);for(var r in n)this[r]=n[r]},p.prototype._parseBody=function(e){var
t=v.parse[this.type];return!t&&(this.type)&&(t=v.parse["application/json"]),t&&e.length||e instanceof
Object)?t(e):null},p.prototype._setStatusProperties=function(e){1223===e&&(e=204);var
t=e/100|0;this.status=this.statusCode=e,this.statusText=t,this.info=1==t,this.ok=2==t,this.clientError=4==t,this.serv
erError=5==t,this.error=(4==t||5==t)&&this.toError(),this.accepted=202==e,this.noContent=204==e,this.badReques
t=400==e,this.unauthorized=401==e,this.notAcceptable=406==e,this.notFound=404==e,this.forbidden=403==e},p.
prototype.toError=function(){var
e=this.req,t=e.method,n=e.url,r="cannot "+t+" "+n+" ("+"+this.status+"")",i=new Error(r);
return i.status=this.status,i.method=t,i.url=n,i},v.Response=p,m(h.prototype);for(var w in
g)h.prototype[w]=g[w];h.prototype.type=function(e){return this.set("Content-
Type",v.types[e]||e),this},h.prototype.responseType=function(e){return
this._responseType=e,this},h.prototype.accept=function(e){return
this.set("Accept",v.types[e]||e),this},h.prototype.auth=function(e,t,n){switch(n||(n={type:"basic"}),n.type){case"basi
c":var r=btoa(e+":")+t;this.set("Authorization","Basic "+r);break;case"auto":this.username=e,this.password=t}return
this},h.prototype.query=function(e){return"string"!==typeof
e&&(e=i(e)),e&&this._query.push(e),this},h.prototype.attach=function(e,t,n){return
this._getFormData().append(e,t,n||t.name),this},h.prototype._getFormData=function(){return
this._formData||(this._formData=new d.FormData),this._formData},h.prototype.callback=function(e,t){var
n=this._callback;this.clearTimeout(),n(e,t)},h.prototype.crossDomainError=function(){var e=new Error("Request
has been terminated\nPossible causes: the network is offline, Origin is not allowed by Access-Control-Allow-Origin,
the page is being unloaded,
etc.");e.crossDomain=!0,e.status=this.status,e.method=this.method,e.url=this.url,this.callback(e)},h.prototype._time
outError=function(){var e=this._timeout,t=new Error("timeout of "+e+"ms
exceeded");t.timeout=e,this.callback(t)},h.prototype._appendQueryString=function(){var
e=this._query.join("&");e&&(this.url+=~this.url.indexOf("?")?"&"+e:""+"?"+e)},h.prototype.end=function(e){var
t=this,n=this.xhr=v.getXHR(),i=this._timeout,a=this._formData||this._data;this._callback=e||r,n.onreadystatechange
=function(){if(4==n.readyState){var
e;try{e=n.status}catch(r){e=0}if(0==e){if(t.timedout)return t._timeoutError();if(t._aborted)return;return
t.crossDomainError()}t.emit("end")}};var
o=function(e){e.total>0&&(e.percent=e.loaded/e.total*100),e.direction="download",t.emit("progress",e)};this.hasLi
steners("progress")&&(n.onprogress=o);try{n.upload&&this.hasListeners("progress")&&(n.upload.onprogress=o)}
catch(s){}if(i&&!this._timer&&(this._timer=setTimeout(function(){t.timedout=!0,t.abort(),i}),this._appendQueryS
tring()),this.username&&this.password?n.open(this.method,this.url,!0,this.username,this.password):n.open(this.meth
od,this.url,!0),this._withCredentials&&(n.withCredentials=!0),"GET"!==this.method&&"HEAD"!==this.method&&"s
tring"!==typeof a&&!this._isHost(a)){var u=this._header["content-
type"],c=this._serializer||v.serialize[u?u.split(";")[0]:""];!c&&(u)&&(c=v.serialize["application/json"]),c&&(a=c(a
))}for(var p in this.header)null!==this.header[p]&&n.setRequestHeader(p,this.header[p]);return
this._responseType&&(n.responseType=this._responseType),this.emit("request",this),n.send("undefined"!==typeof
a?a:null),this},v.Request=h,v.get=function(e,t,n){var r=v("GET",e);return"function"===typeof
t&&(n=t,t=null),t&&r.query(t,n&&r.end(n),r),v.head=function(e,t,n){var
r=v("HEAD",e);return"function"===typeof
t&&(n=t,t=null),t&&r.send(t,n&&r.end(n),r),v.options=function(e,t,n){var
r=v("OPTIONS",e);return"function"===typeof
t&&(n=t,t=null),t&&r.send(t,n&&r.end(n),r),v.del=f,v["delete"]=f,v.patch=function(e,t,n){var
r=v("PATCH",e);return"function"===typeof

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t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r},v.post=function(e,t,n){var r=v("POST",e);return"function"===typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r},v.put=function(e,t,n){var r=v("PUT",e);return"function"===typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r}},{"./is-object":159,"./request":161,"./request-
base":160,emitter:162}],159:[function(e,t,n){function r(e){return
null!==e&&"object"===typeof e}t.exports=r},{}],160:[function(e,t,n){var r=e("./is-
object");n.clearTimeout=function(){return
this._timeout=0,clearTimeout(this._timer),this},n.parse=function(e){return
this._parser=e,this},n.serialize=function(e){return this._serializer=e,this},n.timeout=function(e){return
this._timeout=e,this},n.then=function(e,t){if(!this._fulfilledPromise){var n=this;this._fulfilledPromise=new
Promise(function(e,t){n.end(function(n,r){n?t(n):e(r)}))})return
this._fulfilledPromise.then(e,t)},n.use=function(e){return e(this),this},n.get=function(e){return
this._header[e.toLowerCase()],n.getHeader=n.get,n.set=function(e,t){if(r(e)){for(var n in e)this.set(n,e[n]);return
this}return this._header[e.toLowerCase()]=t,this.header[e]=t,this},n.unset=function(e){return delete
this._header[e.toLowerCase()],delete this.header[e],this},n.field=function(e,t){return
this._getFormData().append(e,t),this},n.abort=function(){return
this._aborted?this:(this._aborted=!0,this.xhr&&this.xhr.abort(),this.req&&this.req.abort(),this.clearTimeout(),this.e
mit("abort"),this)},n.withCredentials=function(){return
this._withCredentials=!0,this},n.redirects=function(e){return
this._maxRedirects=e,this},n.toJSON=function(){return{method:this.method,url:this.url,data:this._data,headers:this.
_header}},n.isHost=function(e){var t={}.toString.call(e);switch(t){case"[object File]":case"[object
Blob]":case"[object FormData]":return!0;default:return!1}},n.send=function(e){var t=r(e),n=this._header["content-
type"];if(t&&r(this._data))for(var i in e)this._data[i]=e[i];else"string"===typeof
e?(n||this.type("form"),n=this._header["content-type"],"application/x-www-form-
urlencoded"===n?this._data=this._data?this._data+"&"+e:e:this._data=(this._data||"")+e):this._data=e;return!t||this.i
sHost(e)?this:(n||this.type("json"),this)},{"./is-object":159}],161:[function(e,t,n){function
r(e,t,n){return"function"===typeof n?new e("GET",t).end(n):2===arguments.length?new e("GET",t):new
e(t,n)}t.exports=r},{}],162:[function(e,t,n){function
r(e){if(e)return i(e)}function i(e){for(var t in r.prototype)e[t]=r.prototype[t];return e}"undefined"!==typeof
t&&(t.exports=r),r.prototype.on=r.prototype.addEventListener=function(e,t){return
this._callbacks=this._callbacks||{},(this._callbacks["$"+e]=this._callbacks["$"+e]||[]).push(t),this},r.prototype.once=
function(e,t){function n(){this.off(e,n),t.apply(this,arguments)}return
n.fn=t,this.on(e,n),this},r.prototype.off=r.prototype.removeListener=r.prototype.removeAllListeners=r.prototype.re
moveEventListener=function(e,t){if(this._callbacks=this._callbacks||{}),0===arguments.length)return
this._callbacks={},this;var n=this._callbacks["$"+e];if(!n)return this;if(1===arguments.length)return delete
this._callbacks["$"+e],this;for(var r,i=0;i<n.length;++)if(r=n[i],r===t||r.fn===t){n.splice(i,1);break}return
this},r.prototype.emit=function(e){this._callbacks=this._callbacks||{};var
t=[];slice.call(arguments,1),n=this._callbacks["$"+e];if(n){n=n.slice(0);for(var
r=0,i=n.length;r<i;++)n[r].apply(this,t)}return this},r.prototype.listeners=function(e){return
this._callbacks=this._callbacks||{}},this._callbacks["$"+e]||[]},r.prototype.hasListeners=function(e){return!!this.listen
ers(e).length}},{}],{},{},[1])(1)},window.SwaggerUi=Backbone.Router.extend({dom_id:"swagger_ui",options:null,
api:null,headerView:null,mainView:null,initialize:function(e){e=e||{},"model"!==e.defaultModelRendering&&(e.de
faultModelRendering="schema"),e.highlightSizeThreshold||(e.highlightSizeThreshold=1e5),e.dom_id&&(this.dom_
id=e.dom_id,delete
e.dom_id),e.supportedSubmitMethods||(e.supportedSubmitMethods=["get","put","post","delete","head","options","p
atch"],"string"===typeof
e.oauth2RedirectUrl&&(window.oAuthRedirectUrl=e.oauth2RedirectUrl),$("#"+this.dom_id).length||$("#body").app
end("<div id='"+this.dom_id+"'></div>"),this.options=e,marked.setOptions({gfm:!0});var
t=this;this.options.success=function(){return t.render()},this.options.progress=function(e){return

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t.showMessage(e)},this.options.failure=function(e){return
t.onLoadFailure(e)},this.headerView=new
SwaggerUi.Views.HeaderView({el:$("#header")}),this.headerView.on("update-swagger-ui",function(e){return
t.updateSwaggerUi(e)}),JSONEditor.defaults.iconlibs.swagger=JSONEditor.AbstractIconLib.extend({mapping:{collapse:"collapse",expand:"expand"},icon_prefix:"swagger-
"}),setOption:function(e,t){this.options[e]=t},getOption:function(e){return
this.options[e]},updateSwaggerUi:function(e){this.options.url=e.url,this.load()},load:function(){this.mainView&&this.mainView.clear(),this.authView&&this.authView.remove();var
e=this.options.url;e&&0!==(e.indexOf("http")&&(e=this.buildUrl(window.location.href.toString(),e))),this.api&&(this.options.authorizations=this.api.clientAuthorizations.authz),this.options.url=e,this.headerView.update(e),this.api=new
SwaggerClient(this.options)},collapseAll:function(){Docs.collapseEndpointListForResource(""),listAll:function(){Docs.collapseOperationsForResource("")},expandAll:function(){Docs.expandOperationsForResource("")},render:
function(){var
e;switch(this.showMessage("Finished Loading Resource Information. Rendering Swagger
UI..."),this.mainView=new
SwaggerUi.Views.MainView({model:this.api,el:$("#"+this.dom_id),swaggerOptions:this.options,router:this}).render(),_isEmpty(this.api.securityDefinitions)||e=_map(this.api.securityDefinitions,function(e,t){var n={};return
n[t]=e,n}),this.authView=new
SwaggerUi.Views.AuthButtonView({data:SwaggerUi.utils.parseSecurityDefinitions(e),router:this}),$("#auth_container").append(this.authView.render().el),this.showMessage(),this.options.docExpansion){case"full":this.expandAll();break;case"list":this.listAll()}this.renderGFM(),this.options.onComplete&&this.options.onComplete(this.api,this),
setTimeout(Docs.shebang.bind(this),100)},buildUrl:function(e,t){if(0===t.indexOf("/")){var n=e.split("/");return
e=n[0]+"/"+n[2],e+t}var r=e.length;return e.indexOf("?")>-1&&(r=Math.min(r,e.indexOf("?"))),e.indexOf("#")>-1&&(r=Math.min(r,e.indexOf("#"))),e=e.substring(0,r),e.indexOf("/",e.length-1)!==1?e+t:e+"/"+t},showMessage:function(e){void
0===e&&(e="");var t=$("#message-bar");t.removeClass("message-fail"),t.addClass("message-success"),t.text(e),window.SwaggerTranslator&&window.SwaggerTranslator.translate(t),onLoadFailure:function(e){void 0===e&&(e=""),$("#message-bar").removeClass("message-success"),$("#message-bar").addClass("message-fail");var t=$("#message-bar").text(e);return
this.options.onFailure&&this.options.onFailure(e,t)},renderGFM:function(){$(this.markdown).each(function(){$(this).html(marked($(this).html()))},$(".propDesc",".model-signature.description").each(function(){$(this).html(marked($(this).html())).addClass("markdown")}})},window.SwaggerUi.Views={},window.SwaggerUi.Models={},window.SwaggerUi.Collections={},window.SwaggerUi.partials={},window.SwaggerUi.utils={},function(){function e(e){"console"in window&&"function"===typeof window.console.warn&&console.warn(e)}window.authorizations={add:function(){if(e("Using window.authorizations is deprecated. Please use SwaggerUi.api.clientAuthorizations.add()."),"undefined"===typeof window.swaggerUi)throw new TypeError("window.swaggerUi is not defined");window.swaggerUi instanceof SwaggerUi&&window.swaggerUi.api.clientAuthorizations.add.apply(window.swaggerUi.api.clientAuthorizations,arguments)},window.ApiKeyAuthorization=function(){e("window.ApiKeyAuthorization is deprecated. Please use SwaggerClient.ApiKeyAuthorization."),SwaggerClient.ApiKeyAuthorization.apply(window,arguments)},window.PasswordAuthorization=function(){e("window.PasswordAuthorization is deprecated. Please use SwaggerClient.PasswordAuthorization."),SwaggerClient.PasswordAuthorization.apply(window,arguments)}},function(e,t){"function"===typeof define&&define.amd?define(["b"],function(n){return e.SwaggerUi=t(n)}):"object"===typeof exports?module.exports=t(require("b")):e.SwaggerUi=t(e.b)}(this,function(){return SwaggerUi}),window.SwaggerUi.utils={parseSecurityDefinitions:function(e){var

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t=Object.assign({},window.swaggerUi.api.authSchemes||window.swaggerUi.api.securityDefinitions),n=[],r=[],i=[],a
=window.SwaggerUi.utils;return Array.isArray(e)?(e.forEach(function(e){var o={},s={};for(var l in
e)if(Array.isArray(e[l])){if(!t[l])continue;if(t[l]=t[l]||{},"oauth2"===t[l].type){s[l]=Object.assign({},t[l]),s[l].scopes
=Object.assign({},t[l].scopes);for(var u in s[l].scopes)e[l].indexOf(u)<0&&delete
s[l].scopes[u];s[l].scopes=a.parseOauth2Scopes(s[l].scopes),i=_merge(i,s[l].scopes)}else
o[l]=Object.assign({},t[l])}else"oauth2"===e[l].type?(s[l]=Object.assign({},e[l]),s[l].scopes=a.parseOauth2Scopes(
s[l].scopes),i=_merge(i,s[l].scopes)):o[l]=e[l];_isEmpty(o)||r.push(o,_isEmpty(s)||n.push(s)),{auths:r,oauth2:n,sc
opes:i}:null},parseOauth2Scopes:function(e){var t,n=Object.assign({},e),r=[];for(t in
n)r.push({scope:t,description:n[t]});return r},sanitize:function(e){return
e=e.replace(/<script\b[^\<]*(?:<\/script><[^\<]*<\/script>/gi,""),e=e.replace(/(on\w+=["^"]*)*(on\w+=['^"]*)*(
on\w+=\w*(\w*)*)/gi,"")},SwaggerUi.Models.ApiKeyAuthModel=Backbone.Model.extend({defaults:{"in":"","na
me":"","title":"","value":""},initialize:function(){this.on("change",this.validate)},validate:function(){var
e=!this.get("value");return
this.set("valid",e,e)},SwaggerUi.Views.ApiKeyAuthView=Backbone.View.extend({events:{"change
.input_apiKey_entry":"apiKeyChange"},selectors:{apiKeyInput:".input_apiKey_entry"},template:Handlebars.templa
tes.apikey_auth,initialize:function(e){this.options=e||{}},this.router=this.options.router},render:function(){return
this.$el.html(this.template(this.model.toJSON()),this),apiKeyChange:function(e){var
t=$(e.target).val();t&&this.$(this.selectors.apikeyInput).removeClass("error"),this.model.set("value",t),isValid:fun
ction(){return
this.model.validate()},highlightInvalid:function(){this.isValid()||this.$(this.selectors.apikeyInput).addClass("error")
}),SwaggerUi.Views.AuthButtonView=Backbone.View.extend({events:{"click
.authorize__btn":"authorizeBtnClick"},tpls:{popup:Handlebars.templates.popup,authBtn:Handlebars.templates.auth
_button,authBtnOperation:Handlebars.templates.auth_button_operation},initialize:function(e){this.options=e||{}},thi
s.options.data=this.options.data||{}},this.isOperation=this.options.isOperation,this.model=this.model||{}},this.router=t
his.options.router,this.auths=this.options.data.oauth2.concat(this.options.data.auths)},render:function(){var
e=this.isOperation?"authBtnOperation":"authBtn";return
this.$authEl=this.renderAuths(this.auths),this.$el.html(this.tpls[e](this.model)),this},authorizeBtnClick:function(e){
var t;e.preventDefault(),t={title:"Available authorizations",content:this.$authEl},this.render(),this.popup=new
SwaggerUi.Views.PopupView({model:t}),this.popup.render(),renderAuths:function(e){var
t=$("<div>"),n=!1;return e.forEach(function(e){var r=new
SwaggerUi.Views.AuthView({data:e,router:this.router}),i=r.render().el;t.append(i,r.isLogout&&(n=!0)),this.
model.isLogout=n,t}),SwaggerUi.Collections.AuthsCollection=Backbone.Collection.extend({constructor:function(
){var
e=Array.prototype.slice.call(arguments);e[0]=this.parse(e[0]),Backbone.Collection.apply(this,e),add:function(e){v
ar t=Array.prototype.slice.call(arguments);Array.isArray(e)?t[0]=_map(e,function(e){return
this.handleOne(e)},this):t[0]=this.handleOne(e),Backbone.Collection.prototype.add.apply(this,t)},handleOne:functio
n(e){var t=e;if(!(e instanceof Backbone.Model))switch(e.type){case"oauth2":t=new
SwaggerUi.Models.Oauth2Model(e);break;case"basic":t=new
SwaggerUi.Models.BasicAuthModel(e);break;case"apiKey":t=new
SwaggerUi.Models.ApiKeyAuthModel(e);break;default:t=new Backbone.Model(e)}return t},isValid:function(){var
e=!0;return this.models.forEach(function(t){t.validate()||(e=!1)}),e},isAuthorized:function(){return
this.length===this.where({isLogout:!0}).length},isPartiallyAuthorized:function(){return
this.where({isLogout:!0}).length>0},parse:function(e){var
t=Object.assign({},window.swaggerUi.api.clientAuthorizations.authz);return
_map(e,function(e,n){var r=t[n]&&"basic"===e.type&&t[n].username&&t[n].password;return
_extend(e,{title:n}),(t[n]||r)&&_extend(e,{isLogout:!0,value:r?void 0:t[n].value,username:r?t[n].username:void
0,password:r?t[n].password:void
0,valid:!0},e))}),SwaggerUi.Views.AuthsCollectionView=Backbone.View.extend({initialize:function(e){this.opti

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ons=e||{ },this.options.data=this.options.data||{ },this.router=this.options.router,this.collection=new
SwaggerUi.Collections.AuthsCollection(e.data),this.$innerEl=$(("<div>"),this.authViews=[]),render:function(){retu
rn
this.collection.each(function(e){this.renderOneAuth(e)},this),this.$el.html(this.$innerEl.html()?this.$innerEl:""),this
},renderOneAuth:function(e){var
t,n,r,i=e.get("type");"apiKey"===i?r="ApiKeyAuthView":"basic"===i&&0===this.$innerEl.find(".basic_auth_cont
ainer").length?r="BasicAuthView":"oauth2"===i&&(r="OAuth2View"),r&&(n=new
SwaggerUi.Views[r]({model:e,router:this.router}),t=n.render().el,this.authViews.push(n)),this.$innerEl.append(t),h
ighlightInvalid:function(){this.authViews.forEach(function(e){e.highlightInvalid()},this)}},SwaggerUi.Views.Auth
View=Backbone.View.extend({events:{ "click
.auth_submit__button":"authorizeClick", "click
.auth_logout__button":"logoutClick"},tpls:{main:Handlebars.templates.auth_view},selectors:{innerEl:".auth_inner"
,authBtn:".auth_submit__button"},initialize:function(e){this.options=e||{ },e.data=e.data||{ },this.router=this.options.r
outer,this.authsCollectionView=new
SwaggerUi.Views.AuthsCollectionView({data:e.data}),this.$el.html(this.tpls.main({isLogout:this.authsCollectionView
iew.collection.isAuthorized(),isAuthorized:this.authsCollectionView.collection.isPartiallyAuthorized()})),this.$inne
rEl=this.$(this.selectors.innerEl),this.isLogout=this.authsCollectionView.collection.isPartiallyAuthorized(),render:f
unction(){return
this.$innerEl.html(this.authsCollectionView.render().el),this},authorizeClick:function(e){e.preventDefault(),e.stopP
ropagation(),this.authsCollectionView.collection.isValid()?this.authorize():this.authsCollectionView.highlightInvali
d()},authorize:function(){this.authsCollectionView.collection.forEach(function(e){var
t,n,r=e.get("type");"apiKey"===r?(t=new
SwaggerClient.ApiKeyAuthorization(e.get("name"),e.get("value"),e.get("in")),this.router.api.clientAuthorizations.ad
d(e.get("title"),t)):"basic"===r?(n=new
SwaggerClient.PasswordAuthorization(e.get("username"),e.get("password")),this.router.api.clientAuthorizations.ad
d(e.get("title"),n)):"oauth2"===r&&this.handleOAuth2Login(e)},this),this.router.load(),logoutClick:function(e){e.p
reventDefault(),this.authsCollectionView.collection.forEach(function(e){window.swaggerUi.api.clientAuthorizations
s.remove(e.get("title"))}),this.router.load(),handleOAuth2Login:function(e){var
t,n,r,i=window.location,a=location.pathname.substring(0,location.pathname.lastIndexOf("/")),o=i.protocol+"//"+i.ho
st+a+"/o2c.html",s=window.oAuthRedirectUrl||o,l=null,u=_ .map(e.get("scopes"),function(e){return
e.scope});window.OAuthSchemeKey=e.get("title"),window.enabledScopes=u;var
c=e.get("flow");if("oauth2"!==e.get("type")||!c||"implicit"!==c&&"accessToken"!==c){if("oauth2"===e.get("type")
&&c&&"application"===c)return n=e.attributes,window.swaggerUi.tokenName=n.tokenName||"access_token",void
this.clientCredentialsFlow(u,n.tokenUrl,window.OAuthSchemeKey);if(e.get("grantTypes")){var
p=e.get("grantTypes");for(var h in
p)p.hasOwnProperty(h)&&"implicit"===h?(n=p[h],r=n.loginEndpoint.url,l=n.loginEndpoint.url+"?response_type=t
oken",window.swaggerUi.tokenName=n.tokenName):p.hasOwnProperty(h)&&"accessToken"===h&&(n=p[h],r=n.t
okenRequestEndpoint.url,l=n.tokenRequestEndpoint.url+"?response_type=code",window.swaggerUi.tokenName=n.
tokenName)}}else
n=e.attributes,l=n.authorizationUrl+"?response_type="+("implicit"===c?"token":"code"),window.swaggerUi.token
Name=n.tokenName||"access_token",window.swaggerUi.tokenUrl="accessToken"===c?n.tokenUrl:null,t=window.O
AuthSchemeKey;redirect_uri=s,l+="&redirect_uri="+encodeURIComponent(s),l+="&realm="+encodeURIComponent(
realm),l+="&client_id="+encodeURIComponent(clientId),l+="&scope="+encodeURIComponent(u.join(scopeS
eparator)),l+="&state="+encodeURIComponent(t);for(var
f in
additionalQueryStringParams)l+="&"+f+"="+encodeURIComponent(additionalQueryStringParams[f]);window.ope
n(l),clientCredentialsFlow:function(e,t,n){var r={client_id:clientId,client_secret:clientSecret,scope:e.join("
"),grant_type:"client_credentials"};$.ajax({url:t,type:"POST",data:r,success:function(e){onOAuthComplete(e,n)},er

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ror:function(){onOAuthComplete("")}})},SwaggerUi.Models.BasicAuthModel=Backbone.Model.extend({default
s:{username:"",password:"",title:"basic"},initialize:function(){this.on("change",this.validate)},validate:function(){v
ar e=!this.get("password")&&!this.get("username");return
this.set("valid",e,e)},SwaggerUi.Views.BasicAuthView=Backbone.View.extend({initialize:function(e){this.optio
ns=e||{ },this.router=this.options.router},events:{ "change
.auth_input":"inputChange"},selectors:{usernameInput:".basic_auth__username",passwordInput:".basic_auth__pass
word"},cls:{error:"error"},template:Handlebars.templates.basic_auth,render:function(){return
$(this.el).html(this.template(this.model.toJSON()),this),inputChange:function(e){var
t=$(e.target),n=t.val(),r=t.prop("name");n&&t.removeClass(this.cls.error),this.model.set(r,n),isValid:function(){ret
urn
this.model.validate()},highlightInvalid:function(){this.model.get("username")||this.$(this.selectors.usernameInput).a
ddClass(this.cls.error)}}),SwaggerUi.Views.ContentTypeView=Backbone.View.extend({initialize:function(){ },ren
der:function(){return
this.model.contentTypeId="ct"+Math.random(),$(this.el).html(Handlebars.templates.content_type(this.model)),this
}),SwaggerUi.Views.HeaderView=Backbone.View.extend({events:{ "click #show-pet-store-
icon":"showPetStore", "click #explore":"showCustom", "submit #api_selector":"showCustom", "keyup
#input_baseUrl":"showCustomOnKeyup", "keyup
#input_apiKey":"showCustomOnKeyup"},initialize:function(){ },showPetStore:function(){this.trigger("update-
swagger-
ui",{url:"http://petstore.swagger.io/v2/swagger.json"}),showCustomOnKeyup:function(e){13===e.keyCode&&thi
s.showCustom(),showCustom:function(e){e&&e.preventDefault(),this.trigger("update-swagger-
ui",{url:$("#input_baseUrl").val()})},update:function(e,t,n){void
0===n&&(n=!1),$("#input_baseUrl").val(e),n&&this.trigger("update-swagger-
ui",{url:e})}},SwaggerUi.Views.MainView=Backbone.View.extend({apisorter:{alpha:function(e,t){return
e.name.localeCompare(t.name)}},operationsSorters:{alpha:function(e,t){return
e.path.localeCompare(t.path)},method:function(e,t){return
e.method.localeCompare(t.method)}},initialize:function(e){var
t,n,r,i;if(e=e||{ },this.router=e.router,e.swaggerOptions.apisorter&&(t=e.swaggerOptions.apisorter,n=_isFunction(
t)?t:this.apisorter[t],_isFunction(n)&&this.model.apisArray.sort(n),e.swaggerOptions.operationsSorter&&(t=e.sw
aggerOptions.operationsSorter,n=_isFunction(t)?t:this.operationsSorters[t],_isFunction(n)))for(r
in this.model.apisArray)this.model.apisArray[r].operationsArray.sort(n);this.model.auths=[];for(r in
this.model.securityDefinitions)i=this.model.securityDefinitions[r],this.model.auths.push({name:r,type:i.type,value:i
});"validatorUrl"in
e.swaggerOptions?this.model.validatorUrl=e.swaggerOptions.validatorUrl:this.model.url.indexOf("localhost")>0||th
is.model.url.indexOf("127.0.0.1")>0?this.model.validatorUrl=null:this.model.validatorUrl="//online.swagger.io/vali
dator";var a;for(a in
this.model.definitions)this.model.definitions[a].type||(this.model.definitions[a].type="object"),render:function(){$(t
his.el).html(Handlebars.templates.main(this.model)),this.info=this.$(".info")[0],this.info&&this.info.addEventListener("click",this.onLinkClick,!0),this.model.securityDefinitions=this.model.securityDefinitions||{ };for(var
e={ },t=0,n=0;n<this.model.apisArray.length;n++){for(var r=this.model.apisArray[n],i=r.name,"undefined"!=typeof
e[i];i=i+"_" +t,t+=1;r.id=sanitizeHtml(i),e[i]=r,this.addResource(r,this.model.auths))return
$(".propWrap").hover(function(){$(".optionsWrapper",$(this)).show(),function(){$(".optionsWrapper",$(this)).hid
e()}),this},addResource:function(e,t){e.id=e.id.replace(/s/g,"_"),e.definitions=this.model.definitions;var n=new
SwaggerUi.Views.ResourceView({model:e,router:this.router,tagName:"li",id:"resource_"+e.id,className:"resource
",auths:t,swaggerOptions:this.options.swaggerOptions});$("#resources",this.el).append(n.render().el),clear:function
(){$(this.el).html("")},onLinkClick:function(e){var
t=e.target;"A"===t.tagName&&t.href&&!t.target&&(e.preventDefault(),window.open(t.href,"_blank"))}},Swagger
Ui.Models.Oauth2Model=Backbone.Model.extend({defaults:{scopes:{ }},initialize:function(){this.on("change",this.

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validate}),setScopes:function(e,t){var n=_._extend({},this.attributes),r=_._findIndex(n.scopes,function(t){return
t.scope===e});n.scopes[r].checked=t,this.set(n),this.validate(),validate:function(){var
e=!1,t=this.get("scopes"),n=_._findIndex(t,function(e){return e.checked===!0});return
t.length>0&&n>=0&&(e=!0),0===t.length&&(e=!0),this.set("valid",e,e)},SwaggerUi.Views.Oauth2View=Backbone.View.extend({events:{'change .oauth-
scope':"scopeChange"},template:Handlebars.templates.oauth2,render:function(){return
this.$el.html(this.template(this.model.toJSON()),this),scopeChange:function(e){var
t=$(e.target).prop("checked"),n=$(e.target).data("scope");this.model.setScopes(n,t)},SwaggerUi.Views.Operation
View=Backbone.View.extend({invocationUrl:null,events:{'submit .sandbox':"submitOperation",'click
.submit':"submitOperation",'click .response_hider':"hideResponse",'click
.toggleOperation':"toggleOperationContent",'mouseenter .api-ic':"mouseenter",'dblclick
.curl':"selectText",'change [name=responseContentType]':"showSnippet"},initialize:function(e){return
e=e||{},this.router=e.router,this.auths=e.auths,this.parentId=this.model.parentId,this.nickname=this.model.nickname
,this.model.encodedParentId=encodeURIComponent(this.parentId),e.swaggerOptions&&(this.model.defaultRendering=e.swaggerOptions.defaultModelRendering,e.swaggerOptions.showRequestHeaders&&(this.model.showRequest
Headers=!0)),this},selectText:function(e){var
t,n,r=document,i=e.target.firstChild;r.body.createTextRange?(t=document.body.createTextRange(),t.moveToElementText(i),t.select()):window.getSelection&&(n=window.getSelection(),t=document.createRange(),t.selectNodeContents(i),n.removeAllRanges(),n.addRange(t)),mouseenter:function(e){var
t=$(this.el).find(".content"),n=e.pageX,r=e.pageY,i=$(window).scrollLeft(),a=$(window).scrollTop(),o=i+(window).width(),s=a+(window).height(),l=t.width(),u=t.height();n+l>o&&(n=o-l),n<i&&(n=i),r+u>s&&(r=s-u),r<a&&(r=a);var c={};c.top=r,c.left=n,t.css(c)},render:function(){var
e,t,n,r,i,a,o,s,l,u,c,p,h,f,d,m,g,y,v,b,w,x,A,S,j,E,O,k,T,C,I,D,L,M,R,U,P,q,B,N,z;if(a=jQuery.inArray(this.model.method,this.model.supportedSubmitMethods())>=0,a||(this.model.isReadOnly=!0),this.model.description=this.model.description||this.model.notes,this.model.oauth=null,m=this.model.authorizations||this.model.security)if(Array.isArray(m))for(l=0,u=m.length;l<u;l++){n=m[l];for(s
in n)for(e in
this.auths)if(t=this.auths[e],s===t.name&&"oauth2"===t.type){this.model.oauth={},this.model.oauth.scopes=[],A=t.value.scopes;for(o in
A)P=A[o],D=n[s].indexOf(o),D>=0&&(y={scope:o,description:P},this.model.oauth.scopes.push(y))}else for(o in
m)if(P=m[o],"oauth2"===o)for(null===this.model.oauth&&(this.model.oauth={},void
0===this.model.oauth.scopes&&(this.model.oauth.scopes=[]),d=0,c=P.length;d<c;d++)y=P[d],this.model.oauth.scopes.push(y);if("undefined"!==typeof
this.model.responses){this.model.responseMessages=[],S=this.model.responses;for(r in
S)q=S[r],C=null,I=this.model.responses[r].schema,I&&I.$ref&&(C=I.$ref,C.indexOf("#/definitions/")!==-1&&(C=C.replace(/^.*#\//definitions//,"")),this.model.responseMessages.push({code:r,message:q.description,responseModel:C,headers:q.headers,schema:I})}if("undefined"===typeof
this.model.responseMessages&&(this.model.responseMessages=[]),L=null,B=this.model.produces,N=this.model.contains(B,"xml"),z=!N||this.model.contains(B,"json"),this.model.successResponse){R=this.model.successResponse;for(s in
R)q=R[s],this.model.successCode=s,"object"===typeof q&&"function"===typeof
q.createJSONSample?(this.model.successDescription=q.description,this.model.headers=this.parseResponseHeaders(q.headers),L={sampleJSON:!!z&&JSON.stringify(SwaggerUi.partials.signature.createJSONSample(q),void
0,2),isParam:!1,sampleXML:!!N&&SwaggerUi.partials.signature.createXMLSample(q.name,q.definition,q.models),signature:SwaggerUi.partials.signature.getModelSignature(q.name,q.definition,q.models,q.modelPropertyMacro)}):
L={signature:SwaggerUi.partials.signature.getPrimitiveSignature(q)}else
this.model.responseClassSignature&&"string"===this.model.responseClassSignature&&(L={sampleJSON:this.model.responseSampleJSON,isParam:!1,signature:this.model.responseClassSignature});for($(this.el).html(Handlebars.templates.operation(this.model)),L?(L.defaultRendering=this.model.defaultRendering,T=new

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SwaggerUi.Views.SignatureView({ model:L,router:this.router,tagName:"div" }),$(".model-
signature",$(this.el)).append(T.render().el):(this.model.responseClassSignature="string",$(".model-
signature",$(this.el)).html(this.model.type)),i={ isParam:!1 },i.consumes=this.model.consumes,i.produces=this.model
.produces,j=this.model.parameters,g=0,p=j.length;g<p;g++)b=j[g],U=b.type||b.dataType||"",undefined===typeof
U&&(C=b.schema,C&&C.$ref&&(x=C.$ref,U=0===x.indexOf("#/definitions/")?x.substring("#/definitions/"
.length):x)),U&&"file"===U.toLowerCase()&&(i.consumes||(i.consumes="multipart/form-data")),b.type=U;for(k=new
SwaggerUi.Views.ResponseContentTypeView({ model:i,router:this.router }),$(".response-content-
type",$(this.el)).append(k.render().el),E=this.model.parameters,v=0,h=E.length;v<h;v++)b=E[v],this.addParameter(
b,i.consumes);for(O=this.model.responseMessages,w=0,f=O.length;w<f;w++)M=O[w],M.isXML=N,M.isJSON=z,_
.isUndefined(M.headers)||(M.headers=this.parseHeadersType(M.headers)),this.addStatusCode(M);if(Array.isArray(t
his.model.security)){ var
F=SwaggerUi.utils.parseSecurityDefinitions(this.model.security);F.isLogout=!_.isEmpty(window.swaggerUi.api.cli
entAuthorizations.authz),this.authView=new
SwaggerUi.Views.AuthButtonView({ data:F,router:this.router,isOperation:!0,model:{ scopes:F.scopes } }),this.$(".aut
horize-wrapper").append(this.authView.render().el)}return
this.showSnippet(),this},parseHeadersType:function(e){ var t={ string:{"date-time":"dateTime",date:"date"} };return
_.forEach(e,function(e){ var
n;e=e||{ },n=t[e.type]&&t[e.type][e.format],_.isUndefined(n)||(e.type=n)},e),contains:function(e,t){ return
e.filter(function(e){ if(e.indexOf(t)>-1)return!0}).length},parseResponseHeaders:function(e){ var t="";
",n=_clone(e);return _.forEach(n,function(e){ var n=[];_.forEach(e,function(e,t){ var
r=["type","description"];r.indexOf(t.toLowerCase())===-1&&n.push(t+"
"+e)},n.join(t,e.other=n)),n},addParameter:function(e,t){ e.consumes=t,e.defaultRendering=this.model.defaultRen
dering,e.schema&&($.extend(!0,e.schema,this.model.definitions[e.type]),e.schema.definitions=this.model.definition
s,e.schema.type||(e.schema.type="object"),e.schema.title||(e.schema.title=" "));var n=new
SwaggerUi.Views.ParameterView({ model:e,tagName:"tr",readOnly:this.model.isReadOnly,swaggerOptions:this.opt
ions.swaggerOptions });$(".operation-
params",$(this.el)).append(n.render().el)},addStatusCode:function(e){ e.defaultRendering=this.model.defaultRenderi
ng;var t=new SwaggerUi.Views.StatusCodeView({ model:e,tagName:"tr",router:this.router });$(".operation-
status",$(this.el)).append(t.render().el)},submitOperation:function(e){ var
t,n,r,i,a;if(null!==e&&e.preventDefault(),n=$(this).sandbox,$(this.el)),t=!0,n.find("input.required").each(function(){ $(
this).removeClass("error"),""===jQuery.trim($(this).val())&&($(this).addClass("error"),$(this).wiggle({ callback:fu
nction(e){ return
function(){ $(e).focus() }(this)},t=!1)),n.find("textarea.required:visible").each(function(){ $(this).removeClass("err
or"),""===jQuery.trim($(this).val())&&($(this).addClass("error"),$(this).wiggle({ callback:function(e){ return
function(){ return
$(e).focus() }(this)},t=!1)),n.find("select.required").each(function(){ $(this).removeClass("error"),this.selectedInd
ex===-1&&($(this).addClass("error"),$(this).wiggle({
callback:function(e){ return
function(){ $(e).focus() }(this)},t=!1)),t){ if(i=this.getInputMap(n),r=this.isFileUpload(n),a={ parent:this },this.opti
ons.swaggerOptions)for(var o in this.options.swaggerOptions)a[o]=this.options.swaggerOptions[o];var
s;for(s=0;s<this.model.parameters.length;s++){ var
l=this.model.parameters[s];if(l.jsonEditor&&l.jsonEditor.isEnabled()){ var
u=l.jsonEditor.getValue();i[l.name]=JSON.stringify(u)}return a.responseContentType=$(this).div
select[name=responseContentType]",$(this.el)).val(),a.requestContentType=$(this).div
select[name=parameterContentType]",$(this.el)).val(),$(".response_throbber",$(this.el)).show(),r?($(".request_url",
$(this.el)).html("<pre></pre>"),$(".request_url
pre",$(this.el)).text(this.invocationUrl),a.usejQuery=!0,i.parameterContentType="multipart/form-
data",this.map=i,this.model.execute(i,a,this.showCompleteStatus,this.showErrorStatus,this)):(this.map=i,this.model.

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execute(i,a,this.showCompleteStatus,this.showErrorStatus,this)) } ,getInputMap:function(e){ var
t,n,r,i,a,o,s,l,u,c,p,h;for(t={ },n=e.find("input"),r=0,i=n.length;r<i;r++)a=n[r],null!==a.value&&jQuery.trim(a.value).
length>0&&(t[a.name]=a.value),"file"===a.type&&(t[a.name]=a.files[0]);for(o=e.find("textarea"),s=0,l=o.length;s<
l;s++)a=o[s],u=this.getTextAreaValue(a),null!==u&&jQuery.trim(u).length>0&&(t[a.name]=u);for(c=e.find("select
"),p=0,h=c.length;p<h;p++)a=c[p],u=this.getSelectedValue(a),null!==u&&jQuery.trim(u).length>0&&(t[a.name]=u
);return t },isFileUpload:function(e){ var
t,n,r,i,a=!1;for(t=e.find("input"),n=0,r=t.length;n<r;n++)i=t[n],"file"===i.type&&(a=!0);return
a },success:function(e,t){ t.showCompleteStatus(e) },wrap:function(e){ var
t,n,r,i,a,o,s;for(r={ },n=e.getAllResponseHeaders().split("\r"),a=0,o=n.length;a<o;a++)i=n[a],t=i.match(/^(?:[^\s:]*?):(.*)
$/),t&&(t=[ ],t.shift(),void 0!==t[0]&&void 0!==t[1]&&(r[t[0].trim()]=t[1].trim()));return
s={ },s.content={ },s.content.data=e.responseText,s.headers=r,s.request={ },s.request.url=this.invocationUrl,s.status=
e.status,s },getSelectedValue:function(e){ if(e.multiple){ for(var t=[ ],n=0,r=e.options.length;n<r;n++){ var
i=e.options[n];i.selected&&t.push(i.value)}return t.length>0?t:null }return
e.value },hideResponse:function(e){ e&&e.preventDefault(),$(" .response",$(this.el)).slideUp(),$(" .response_hider",$(
this.el)).fadeOut(),showResponse:function(e){ var
t=JSON.stringify(e,null,"\t").replace(/\n/g,"<br>");$(" .response_body",$(this.el)).html(_escape(t)),showErrorStatu
s:function(e,t){ t.showStatus(e) },showCompleteStatus:function(e,t){ t.showStatus(e) },formatXml:function(e){ var
t,n,r,i,a,o,s,l,u,c,p,h,f;for(p=/(<)(\/*)(\/*)/g,f=/[ ]*(.*)[
 ]+\n/g,t=/(<.+>)(.+)\n/g,e=e.replace(/\r\n/g," ").replace(p,"$1\n$2$3").replace(f,"$1\n").replace(t,"$1\n$2"),c=0,r="
",l=e.split("\n"),i=0,o="other",h={ "single->single":0,"single->closing":-1,"single->opening":0,"single-
>other":0,"closing->single":0,"closing->closing":-1,"closing->opening":0,"closing->other":0,"opening-
>single":1,"opening->closing":0,"opening->opening":1,"opening->other":1,"other->single":0,"other->closing":
-1,"other->opening":0,"other->other":0 },n=function(e){ var
t,n,a,s,l,u,c;u={ single:Boolean(e.match(/<.+>/)),closing:Boolean(e.match(/<\/.+>/)),opening:Boolean(e.match(/<^\
!?:.*>/)) },l=function(){ var e;e=[];for(a in u)c=u[a],c&&e.push(a);return e }(),l=void 0===l?"other":l,t=o+"-
">"+l,o=l,s="",i+=h[t],s=function(){ var e,t,r;for(r=[ ],n=e=0,t=i;0<t?e<t:e>t;n=0<t?++e:-e)r.push(" ");return
r }.join(""),"opening->closing"===t?r=r.substr(0,r.length-
1)+e+"\n":r+=s+e+"\n",a=0,s=l.length;a<s;a++)u=l[a],n(u);return
r },showStatus:function(e){ var t,n;void 0===e.content?(n=e.data,t=e.url):(n=e.content.data,t=e.request.url);var
r=e.headers;"string"===typeof n&&(n=jQuery.trim(n));var i=null;r&&(i=r["Content-Type"]||r["content-
type"],i&&(i=i.split(";")[0].trim())),$(" .response_body",$(this.el)).removeClass("json"),$(" .response_body",$(this.el
)).removeClass("xml");var a,o,s=function(e){ var
t=document.createElement("audio");return!(t.canPlayType||t.canPlayType(e.replace(/no/,"")));if(n)if(r["Content-
Disposition"]&&/attachment/.test(r["Content-Disposition"])||r["content-disposition"]&&/attachment/.test(r["content-
disposition"])||r["Content-Description"]&&/File Transfer/.test(r["Content-Description"])||r["content-
description"]&&/File Transfer/.test(r["content-description"]))if("Blob" in window){ var
l,u=i||"text/html",c=document.createElement("a");if("[object
Blob]"==={ }.toString.apply(n))l=window.URL.createObjectURL(n);else{ var
p=[ ];p.push(n),l=window.URL.createObjectURL(new Blob(p,{ type:u }))}var
h=e.url.substr(e.url.lastIndexOf("/")+1),f=[u,h,l].join(":"),d=r["content-disposition"]||r["Content-
Disposition"];if("undefined"!==typeof d){ var
m=/filename=( [^;]* );?/.exec(d);null!==m&&m.length>1&&(f=m[1])}c.setAttribute("href",l),c.setAttribute("downlo
ad",f),c.innerHTML="Download "+h,a=$( "<div/> ").append(c) }else a=$( "<pre class="json" /> ").append("Download
headers detected but your browser does not support downloading binary via XHR (Blob).");else
if("application/json"===i||/^+json$/ .test(i)){ var g=null;try{ g=JSON.stringify(JSON.parse(n),null,"
")}catch(y){ g="can't parse JSON. Raw result:\n\n"+n }o=$( "<code /> ").text(g),a=$( "<pre class="json"
/> ").append(o) }else if("application/xml"===i||/^+xml$/ .test(i))o=$( "<code /> ").text(this.formatXml(n)),a=$( "<pre
class="xml" /> ").append(o);else if("text/html"===i)o=$( "<code /> ").html(_escape(n)),a=$( "<pre class="xml"

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/>).append(o);else if(/text/plain/.test(i))o=$(("<code />").text(n),a=$(("<pre class="plain" />").append(o);else
if(/^image\/.test(i)){ var
v=window.URL||window.webkitURL,b=v.createObjectURL(n);a=$(("<img>").attr("src",b)}else/^audio\/.test(i)&&s
(i)?a=$(("<audio
controls>").append($("<source>").attr("src",t).attr("type",i)):r.location||r.Location?window.location=e.url:(o=$(("<co
de />").text(n),a=$(("<pre class="json" />").append(o);else o=$(("<code />").text("no content"),a=$(("<pre class="json"
/>").append(o);var w=a;$(".request_url",$(this.el)).html("<pre></pre>"),$(".request_url
pre",$(this.el)).text(t),$(".response_code",$(this.el)).html("<pre>"+e.status+"</pre>"),$(".response_body",$(this.el))
.html(w),$(".response_headers",$(this.el)).html("<pre>"+_.escape(JSON.stringify(e.headers,null,"
")).replace(/\n/g,"<br>")+"</pre>"),$(".response",$(this.el)).slideDown(),$(".response_hider",$(this.el)).show(),$(".r
esponse_throbber",$(this.el)).hide();var
x=this.model.asCurl(this.map,{ responseType:i});x=x.replace("!","&#33;");$(".div.curl",$(this.el)).html("<pre
e>"+_.escape(x)+"</pre>");var A=this.options.swaggerOptions;if(A.showRequestHeaders){ var
S=$((".sandbox",$(this.el)),j=this.getInputMap(S),E=this.model.getHeaderParams(j);delete E["Content-
Type"],$(".request_headers",$(this.el)).html("<pre>"+_.escape(JSON.stringify(E,null,"
")).replace(/\n/g,"<br>")+"</pre>")}var O=$((".response_body",$(this.el))[0];return
A.highlightSizeThreshold&&"undefined"!=$.typeOf
e.data&&e.data.length>A.highlightSizeThreshold?O:hljs.highlightBlock(O)},toggleOperationContent:function(e){ v
ar
t=$(("#"+Docs.escapeResourceName(this.parentId+"_"+this.nickname+"_content"));t.is(":visible")?($.bbq.pushState
("#/",2),e.preventDefault(),Docs.collapseOperation(t)):Docs.expandOperation(t)},getTextAreaValue:function(e){ var
t,n,r,i;if(null===e.value||0===jQuery.trim(e.value).length)return
null;if(t=this.getParamByName(e.name),t&&t.type&&"array"===t.type.toLowerCase()){for(n=e.value.split("\n"),r=
[],i=0;i<n.length;i++)null!=$.trim(n[i]).length>0&&r.push(n[i]);return r.length>0?r:null }return
e.value},showSnippet:function(){ var
e,t=this.$("[name=responseContentType]"),n=this.$(".operation-status .snippet_xml, .response-class
.snippet_xml"),r=this.$(".operation-status .snippet_json, .response-class
.snippet_json");t.length&&(e=t.val(),e.indexOf("xml")>-
1?n.show(),r.hide()):(r.show(),n.hide())},getParamByName:function(e){ var
t;if(this.model.parameters)for(t=0;t<this.model.parameters.length;t++)if(this.model.parameters[t].name===e)return
this.model.parameters[t];return
null }},SwaggerUi.Views.ParameterContentTypeView=Backbone.View.extend({ initialize:function(){ },render:funct
ion(){ return
this.model.parameterContentTypeId="pct"+Math.random(),$(this.el).html(Handlebars.templates.parameter_content
_type(this.model)),this }},SwaggerUi.Views.ParameterView=Backbone.View.extend({ events:{ "change
[name=parameterContentType]":"toggleParameterSnippet"},initialize:function(){Handlebars.registerHelper("isArray",function(e,t){ var
n=e.type&&e.type.toLowerCase();return"array"===n||e.allowMultiple?t.fn(this):t.inverse(this)}}),render:function(){
var
e,t,n=this.model.type||this.model.dataType,r=this.model.modelSignature.type,i=this.model.modelSignature.definitio
ns,a=this.model.schema||{ },o=this.model.consumes||[];if("undefined"===typeof n&&a.$ref){ var
s=a.$ref;n=0===s.indexOf("#/definitions/")?s.substring("#/definitions/".length):s }this.model.type=n,this.model.para
mType=this.model["in"]||this.model.paramType,this.model.isBody="body"===this.model.paramType||"body"===th
is.model["in"],this.model.isFile=n&&"file"===n.toLowerCase(),"undefined"===typeof
this.model["default"]&&(this.model["default"]=this.model.defaultValue),this.model.hasDefault="undefined"!=$.type
of
this.model["default"],this.model.valueId="m"+this.model.name+Math.random(),this.model.allowableValues&&(thi
s.model.isList=0);var

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l=this.contains(o,"xml"),u=!||this.contains(o,"json");e=SwaggerUi.partials.signature.createParameterJSONSample(r
,i);var c=this.template();$(this.el).html(c(this.model));var
p={sampleJSON:!!u&&e,sampleXML:!(e||l)&&SwaggerUi.partials.signature.createXMLSample("",a,i,!0),isPara
m:!0,signature:SwaggerUi.partials.signature.getParameterModelSignature(r,i),defaultRendering:this.model.defaultR
endering};e?(t=new
SwaggerUi.Views.SignatureView({model:p,tagName:"div"}),$(".model-
signature",$(this.el)).append(t.render().el):$(".model-signature",$(this.el)).html(this.model.signature);var
h=!1;if(this.options.swaggerOptions.jsonEditor&&this.model.isBody&&this.model.schema){var
f=$(this.el);this.model.jsonEditor=new
JSONEditor($(".editor_holder",f)[0],{schema:this.model.schema,startval:this.model["default"],ajax:!0,disable_prop
erties:!0,disable_edit_json:!0,iconlib:"swagger"}),p.jsonEditor=this.model.jsonEditor,$(".body-
textarea",f).hide(),$(".editor_holder",f).show(),$(".parameter-content-
type",f).change(function(e){"application/xml"===e.target.value?($(".body-
textarea",f).show(),$(".editor_holder",f).hide(),this.model.jsonEditor.disable()):($(".body-
textarea",f).hide(),$(".editor_holder",f).show(),this.model.jsonEditor.enable())})}this.model.isBody&&(h=!0);var
d={isParam:h};if(d.consumes=this.model.consumes,h){var m=new
SwaggerUi.Views.ParameterContentTypeView({model:d});$(".parameter-content-
type",$(this.el)).append(m.render().el),this.toggleParameterSnippet()}else{var g=new
SwaggerUi.Views.ResponseContentTypeView({model:d});$(".response-content-
type",$(this.el)).append(g.render().el),this.toggleResponseSnippet()}return this},contains:function(e,t){return
e.filter(function(e){if(e.indexOf(t)>-1)return!0}).length},toggleParameterSnippet:function(){var
e=this.$("[name=parameterContentType]").val();this.toggleSnippet(e)},toggleResponseSnippet:function(){var
e=this.$("[name=responseContentType]");e.length&&this.toggleSnippet(e.val())},toggleSnippet:function(e){e=e||"",
e.indexOf("xml")>-
1?(this.$(".snippet_xml").show(),this.$(".snippet_json").hide()):(this.$(".snippet_json").show(),this.$(".snippet_xml"
).hide())},template:function(){return
this.model.isList?Handlebars.templates.param_list:this.options.readOnly?this.model.required?Handlebars.templates.
param_readonly_required:Handlebars.templates.param_readonly:this.model.required?Handlebars.templates.param_r
equired:Handlebars.templates.param}},SwaggerUi.partials.signature=function(){function
e(e){var
t,i=e.name,a=e.definition,o=e.config,s=e.models,l=e.config.isParam,u=[],c=a.properties,p=a.additionalProperties,h=
a.xml,f=b(h);return f&&u.push(f),c||p?(c=c||{}),t=_map(c,function(e,t){var n,i;return
l&&e.readOnly?"":(n=e.xml||{}),i=r(t,e,s,o),n.attribute?(u.push(i),""):i}).join(""),p&&(t+="<!-- additional elements
allowed -->"),y(i,t,u):n}function t(e,t){return y(e,"<!-- Infinite loop $ref: "+t+" -->")}function n(e){return e=e?"":
"+e:"","<!-- invalid XML "+e+" -->"}function r(r,i,s,l){var
u,c,p=_isObject(i)?i.$ref:null;l=l||{};l.modelsToIgnore=l.modelsToIgnore||[];var
h=_isString(p)?a(p,r,s,l):o(r,i,s,l);if(!h)return
n();switch(h.type){case"array":u=w(h);break;case"object":u=e(h);break;case"loop":u=t(h.name,h.config.loopTo);bre
ak;default:u=A(h)}return
p&&"loop"!==h.type&&(c=l.modelsToIgnore.indexOf(p),c>-1&&l.modelsToIgnore.splice(c,1),u)}function
i(e,t,n,r,i){if(arguments.length<4)throw new
Error(this.config=i||{}),this.config.modelsToIgnore=this.config.modelsToIgnore||[],this.name=v(e,n.xml),this.definiti
on=n,this.models=r,this.type=t}function a(e,t,n,r){var
a=u(e),o=n[a]||{};s=o.definition&&o.definition.type?o.definition.type:"object";return
t=t||o.name,r.modelsToIgnore.indexOf(e)>-1?(s="loop",r.loopTo=a):r.modelsToIgnore.push(e),o.definition?new
i(t,s,o.definition,n,r):null}function o(e,t,n,r){var a=t.type||"object";return t?new i(e,a,t,n,r):null}function
s(e,t,n,i){var a='<?xml version="1.0"?'>';return p(a+r(e,t,n,{isParam:i}))}var l=function(e){return
_isPlainObject(e.schema)&&(e=l(e.schema)),e},u=function(e){return"undefined"===typeof

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e?null:0===e.indexOf("#/definitions/")?e.substring("#/definitions/".length):e,c=function(e){if(/^Inline Model
\d+$/).test(e)&&this.inlineModels){var t=parseInt(e.substr("Inline
Model".length).trim(),10),n=this.inlineModels[t];return n}return null},p=function(e){var
t,n,r,i,a,o,s,l,u,c,p,h,f;for(p=/(>)(\/*)/g,f=/[ ]*(.*)[
]+/n/g,t=/(<.+>)(.+<\/n)/g,e=e.replace(p,"$1\n$2$3").replace(f,"$1\n").replace(t,"$1\n$2"),c=0,r="",l=e.split("\n"),i=0,
o="other",h={"single->single":0,"single->closing":-1,"single->opening":0,"single->other":0,"closing-
>single":0,"closing->closing":-1,"closing->opening":0,"closing->other":0,"opening->single":1,"opening-
>closing":0,"opening->opening":1,"opening->other":1,"other->single":0,"other->closing":-1,"other-
>opening":0,"other->other":0},n=function(e){var
t,n,a,s,l,u,c;u={single:Boolean(e.match(/<.+>/)),closing:Boolean(e.match(/<\/.+>/)),opening:Boolean(e.match(/<^[
!?:.*>/))},l=function(){var e;e=[];for(a in u)c=u[a],c&&e.push(a);return e}()[0],l=void 0===l?"other":l,t=0+ "-
">"+l,o=l,s="",i+=h[t],s=function(){var e,t,r;for(r=[],n=e=0,t=i;0<=t?e<t:e>t;n=0<=t?++e:--e)r.push(" ");return
r}.join(""),"opening->closing"===t?r=r.substr(0,r.length-
1)+e+"\n":r+=s+e+"\n"},a=0,s=l.length;a<s;a++)u=l[a],n(u);return
r},h=function(e,t,n,r){function i(e,t,r){var i,a=t;return
e.$ref?(a=e.title||u(e.$ref),i=n[u(e.$ref)]):_isUndefined(t)&&(a=e.title||"Inline Model "+
++m,i={definition:e}),r!==!0&&(f[a]=_isUndefined(i)?{i.definition},a)function a(e){var t='<span
class="propType">',n=e.type||"object";return
e.$ref?t+=i(e,u(e.$ref)):"object"===n?t+=_isUndefined(e.properties)?"object":i(e):"array"===n?(t+="Array["+_isA
rray(e.items)?t+=_map(e.items,i).join(","):_isPlainObject(e.items)?t+=_isUndefined(e.items.$ref)?_isUndefined(e
.items.type)||_indexOf(["array","object"],e.items.type)!==
1?i(e.items):e.items.type:i(e.items,u(e.items.$ref)):(console.log("Array type's 'items' schema is not an array or an
object, cannot process"),t+="object"),t+="]"):t+=e.type,t+="</span>"}function o(e,t){var
n="",r=e.type||"object",i="array"===r;switch(_isUndefined(e.description)||((t+=': <span
class="propDesc">'+e.description+"</span>"),e["enum"]&&(t+= '
=<span class="propVals">[\"+e["enum"].join(",
")+\"</span>"),i&&(r=_isPlainObject(e.items)&& !_isUndefined(e.items.type)?e.items.type:"object"),_isUndefin
ed(e["default"]||((n+=h("Default",e["default"])),r){case"string":e.minLength&&(n+=h("Min.
Length",e.minLength)),e.maxLength&&(n+=h("Max. Length",e.maxLength)),e.pattern&&(n+=h("Reg.
Exp.",e.pattern));break;case"integer":case"number":e.minimum&&(n+=h("Min.
Value",e.minimum)),e.exclusiveMinimum&&(n+=h("Exclusive Min.","true")),e.maximum&&(n+=h("Max.
Value",e.maximum)),e.exclusiveMaximum&&(n+=h("Exclusive Max.","true")),e.multipleOf&&(n+=h("Multiple
Of",e.multipleOf))if(i&&(e.minItems&&(n+=h("Min. Items",e.minItems)),e.maxItems&&(n+=h("Max.
Items",e.maxItems)),e.uniqueItems&&(n+=h("Unique Items","true")),e.collectionFormat&&(n+=h("Coll.
Format",e.collectionFormat))),_isUndefined(e.items)&&_isArray(e["enum"])){var
a;a="number"===r||"integer"===r?e["enum"].join(","):""+e["enum"].join(",")+""},n+=h("Enum",a)}return
n.length>0&&(t='<span class="propWrap">'+t+'<table class="optionsWrapper"><tr><th
colspan="2">'+r+'</th></tr>'+n+'</table></span>'),t}function s(e,t){var
s,h=e.type||"object",f="array"===e.type,m=c+t+" "+(f?"["+"{ "+"}"+p];return
t&&d.push(t),f?_isArray(e.items)?m+="

"+_map(e.items,function(e){var t=e.type||"object";return
_isUndefined(e.$ref)?_indexOf(["array","object"],t)>-
1?"object"===t&&_isUndefined(e.properties)?"object":i(e):o(e,t):i(e,u(e.$ref))}).join("</div><div>"):_isPlainObj
ect(e.items)?m+=_isUndefined(e.items.$ref)?_indexOf(["array","object"],e.items.type||"object")>-
1?(_isUndefined(e.items.type)||"object"===e.items.type)&&_isUndefined(e.items.properties)?"<div>object</div>"
:"<div>"+i(e.items)+"</div>":"<div>"+o(e.items,e.items.type)+"</div>":"<div>"+i(e.items,u(e.items.$ref))+"</div
>":(console.log("Array type's 'items' property is not an array or an object, cannot
process"),m+="



Open Source Used In SSE IPS Config Management Production 3309


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s,c=_.indexOf(e.required,i)>=0,p=_.cloneDeep(t),h=c?"required":"","f='<span class="propName
'+h+'>'+i+'</span>'</span> (";return
p["default"]=r(p),p=l(p),_.isUndefined(p.$ref)||s=n[u(p.$ref)],_.isUndefined(s)||_.indexOf([void
0,"array","object"],s.definition.type)!=-1||(p=l(s.definition)),f+=a(p),c||(f+=', <span
class="propOptKey">optional</span>'),t.readOnly&&(f+=', <span class="propReadOnly">read
only</span>'),f+=")","<div"+(t.readOnly?
class="readOnly":"",">">o(p,f)).join("</div>"),s&&(m+=s+"</div>"):m+="<div">o(e,h)+"</div>",m+c+(f?
"]:"")+p}var c='<span class="strong">'+p+'</span>',h=function(e,t){return'<tr><td
class="optionName">'+e+'</td><td>'+t+'</td></tr>'};if(_.isObject(arguments[0])&&(e=void
0,t=arguments[0],n=arguments[1],r=arguments[2]),n=n||{}),t=l(t),_.isEmpty(t))return
c+"Empty"+p;if("string"===typeof t.$ref&&(e=u(t.$ref),t=n[e],"undefined"===typeof t))return c+e+" is not
defined!"+p;"string"!==typeof e&&(e=t.title||"Inline
Model"),t.definition&&(t=t.definition),"function"!==typeof r&&(r=function(e){return(e||{})["default"]});for(var
f={},d=[],m=0,g=s(t,e);_.keys(f).length>0;)_forEach(f,function(e,t){var n=_.indexOf(d,t)>-1;delete
f[t],n||(d.push(t),g+="<br />"+s(e,t));return g},f=function(e,t,n,r){e=l(e),"function"!==typeof
r&&(r=function(e){return(e||{})["default"]}),n=n||{};var i,a,o=e.type||"object",s=e.format;return
_.isUndefined(e.example)?_.isUndefined(e.items)&&_.isArray(e["enum"])&&(a=e["enum"][0]):a=e.example,_.isU
ndefined(a)&&(e.$ref?(i=t[u(e.$ref)],_.isUndefined(i))(_.isUndefined(n[i.name])?(n[i.name]=i,a=f(i.definition,t,n,r)
),delete n[i.name]):a="array"===i.type?[]:}):_.isUndefined(e["default"])?"string"===o?a="date-time"===s?(new
Date).toISOString():"date"===s?(new
Date).toISOString().split("T")[0]:"string":"integer"===o?a=0:"number"===o?a=0:"boolean"===o?a=!0:"object"===
o?(a={},_.forEach(e.properties,function(e,i){var
o=_.cloneDeep(e);o["default"]=r(e),a[i]=f(o,t,n,r)})):"array"===o&&(a=[],_.isArray(e.items)?_forEach(e.items,fun
ction(e){a.push(f(e,t,n,r))}:_.isPlainObject(e.items)?a.push(f(e.items,t,n,r)):_.isUndefined(e.items)?a.push({}):cons
ole.log("Array
type's 'items' property is not an array or an object, cannot process"))):a=e["default"],a,d=function(e,t){return
t=t||{}),[t.name]=e,e.examples&&_.isPlainObject(e.examples)&&e.examples["application/json"]?(e.definition.exam
ple=e.examples["application/json"],_.isString(e.definition.example)&&(e.definition.example=jsyaml.safeLoad(e.def
inition.example)):e.definition.example||(e.definition.example=e.examples),f(e.definition,e.models,t,e.modelPropert
yMacro)},m=function(e,t){var n,r;return e instanceof Array&&(r=!0,e=e[0]),"undefined"===typeof
e?(e="undefined",n=!0):[e](e=t[e],n=!1):c(e)?(e=c(e),n=!1):n=!0,n?"Array["+e+"]":e.toString():r?"Array["+h(e.
name,e.definition,e.models,e.modelPropertyMacro)+""]":h(e.name,e.definition,e.models,e.modelPropertyMacro)},g=
function(e,t){var n,r,i;if(t=t||{}),n=e instanceof
Array,i=n?e[0]:e,t[i]?r=d(t[i]):c(i)&&(r=d(c(i))),r){if(r=n?[r]:r,"string"===typeof r)return r;if(_.isObject(r)){var
a=r;if(r instanceof Array&&r.length>0&&(a=r[0]),a.nodeName&&"Node"===typeof a){var o=(new
XMLSerializer).serializeToString(a);return p(o)}return JSON.stringify(r,null,2)}return r}},y=function(e,t,r){var
i,a;return r=r||[],a=r.map(function(e){return
"+e.name+'='"+e.value+'"}).join(""),e?(i=["<","e,a",">","t","</","e",">"],i.join("")):n("Node name is not
provided")},v=function(e,t){var n=e||"";return
t=t||{}),t.name&&(n=t.name),t.prefix&&(n=t.prefix+"."+n),n},b=function(e){var t="","n="xmlns";return
e=e||{}),e.namespace?(t=e.namespace,e.prefix&&(n+=":"+e.prefix),{name:n,value:t}):t},w=function(e){var
t,i=e.name,a=e.config,o=e.definition,s=e.models,l=o.items,u=o.xml||{}),c=b(u),p=[];return
l?(t=r(i,l,s,a),c&&p.push(c),u.wrapped&&(t=y(i,t,p)),t:n()),x=function(e){var
t,n;switch(e=e||{}),n=e.items||{}),t=e.type||""){case"object":return"Object is not a
primitive";case"array":return"Array["+n.format|n.type+"]";default:return
e.format|t}},A=function(e){var t,r=e.name,i=e.definition,a={string:{date:new
Date(1).toISOString().split("T")[0],"date-time":new
Date(1).toISOString(),"default":"string"},integer:{"default":1},number:{"default":1.1},"boolean":{"default":!0}},o=

```

```

i.type,s=i.format,l=i.xml||{ },u=b(l),c=[];return
_.keys(a).indexOf(o)<0?n):(t=_.isArray(i["enum"])?i["enum"][0]:i.example||a[o][s]||a[o]["default"],l.attribute?{nam
e:r,value:t}:(u&&c.push(u),y(r,t,c)));return{ getModelSignature:h,createJSONSample:d,getParameterModelSignatu
re:m,createParameterJSONSample:g,createSchemaXML:r,createXMLSample:s,getPrimitiveSignature:x }(),Swagger
Ui.Views.PopupView=Backbone.View.extend({ events: { "click .api-popup-
cancel": "cancelClick" }, template: Handlebars.templates.popup, className: "api-popup-
dialog", selectors: { content: ".api-popup-content", main: "#swagger-ui-
container" }, initialize: function() { this.$el.html(this.template(this.model)); }, render: function() { return
this.$(this.selectors.content).append(this.model.content),$(this.selectors.main).first().append(this.el),this.showPopup
(),this},showPopup:function(){this.$el.show()},cancelClick:function(){this.remove()}},SwaggerUi.Views.Resource
View=Backbone.View.extend({ initialize: function(e) { e=e||{} }, this.router=e.router,this.auths=e.auths, ""===this.mod
el.description&&(this.model.description=null),this.model.description&&(this.model.summary=this.model.descriptio
n),this.number=0 }, render: function() { var
e={ };$(this.el).html(Handlebars.templates.resource(this.model));for(var
t=0;t<this.model.operationsArray.length;t++){for(var
n=this.model.operationsArray[t],r=0,i=n.nickname;"undefined"!==typeof
e[i];i=i+"_" +r,r+=1;e[i]=n,n.nickname=i,n.parentId=this.model.id,n.definitions=this.model.definitions,this.addOper
ation(n)}return
$(".toggleEndpointList",this.el).click(this.callDocs.bind(this,"toggleEndpointListForResource")),$(".collapseResour
ce",this.el).click(this.callDocs.bind(this,"collapseOperationsForResource")),$(".expandResource",this.el).click(this.c
allDocs.bind(this,"expandOperationsForResource")),this},addOperation:function(e){e.number=this.number;var
t=new
SwaggerUi.Views.OperationView({ model:e,router:this.router,tagName:"li",className:"endpoint",swaggerOptions:t
his.options.swaggerOptions,auths:this.auths });$(".endpoints",$(this.el)).append(t.render().el),this.number++ },callDo
cs:function(e,t){t.preventDefault(),Docs[e](t.currentTarget.getAttribute("data-
id"))}},SwaggerUi.Views.ResponseContentTypeView=Backbone.View.extend({ initialize: function() { }, render: funct
ion() { return
this.model.responseContentTypeId="rct"+Math.random(),$(this.el).html(Handlebars.templates.response_content_ty
pe(this.model),this)},SwaggerUi.Views.SignatureView=Backbone.View.extend({ events: { "click a.description-
link": "switchToDescription", "click a.snippet-link": "switchToSnippet", "mousedown
.snippet_json": "jsonSnippetMouseDown", "mousedown
.snippet_xml": "xmlSnippetMouseDown" }, initialize: function() { }, render: function() { return
$(this.el).html(Handlebars.templates.signature(this.model)), "model"===this.model.defaultRendering?this.switchTo
Description():this.switchToSnippet(),this},switchToDescription:function(e){e&&e.preventDefault(),$(".snippet",$(t
his.el)).hide(),$(".description",$(this.el)).show(),$(".description-link",$(this.el)).addClass("selected"),$(".snippet-
link",$(this.el)).removeClass("selected")},switchToSnippet:function(e){e&&e.preventDefault(),$(".snippet",$(this.e
l)).show(),$(".description",$(this.el)).hide(),$(".snippet-link",$(this.el)).addClass("selected"),$(".description-
link",$(this.el)).removeClass("selected")},snippetToTextArea:function(e){ var
t=$( "textarea",$(this.el.parentNode.parentNode.parentNode));""!=$.trim(t.val())&&t.prop("placeholder")!=$.trim(t.val()
|(t.val(e),this.model.jsonEditor&&this.model.jsonEditor.isEnabled())&&this.model.jsonEditor.setValue(JSON.parse(
this.model.sampleJSON))),jsonSnippetMouseDown:function(e){this.model.isParam&&(e&&e.preventDefault(),thi
s.snippetToTextArea(this.model.sampleJSON))},xmlSnippetMouseDown:function(e){this.model.isParam&&(e&&e
.preventDefault(),this.snippetToTextArea(this.model.sampleXML))}},SwaggerUi.Views.StatusCodeView=Backbo
ne.View.extend({ initialize: function(e) { this.options=e||{} }, this.router=this.options.router }, render: function() { var
e,t,n=this.router.api.models[this.model.responseModel];return
$(this.el).html(Handlebars.templates.status_code(this.model)),e=this.router.api.models.hasOwnProperty(this.model.r
esponseModel)?{ sampleJSON:JSON.stringify(SwaggerUi.partials.signature.createJSONSample(n),void
0,2),sampleXML:!!this.model.isXML&&SwaggerUi.partials.signature.createXMLSample("",this.model.schema,this

```

```
.router.api.models),isParam:!1,signature:SwaggerUi.partials.signature.getModelSignature(this.model.responseModel
,n,this.router.api.models),defaultRendering:this.model.defaultRendering}:{signature:SwaggerUi.partials.signature.g
etPrimitiveSignature(this.model.schema)},t=new
SwaggerUi.Views.SignatureView({model:e,tagName:"div"}),$(".model-
signature",this.$el).append(t.render().el,this)}}).call(this);
```

Found

in path(s):

```
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-
ui/swagger-ui.min.js
```

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

```
/*!
```

```
* https://github.com/es-shims/es5-shim
```

```
* @license es5-shim Copyright 2009-2015 by contributors, MIT License
```

```
* see https://github.com/es-shims/es5-shim/blob/master/LICENSE
```

```
*/
```

```
// object is free to use the argument key to filter its
```

```
// for more details.
```

```
/**
```

```
* Sets metadata for `func`.
```

```
*
```

```
* Note: If this function becomes hot, i.e. is invoked a lot in a short
```

```
* period of time, it will trip its breaker and transition to an identity function
```

```
* to avoid garbage collection pauses in V8. See [V8 issue
```

```
2070](https://code.google.com/p/v8/issues/detail?id=2070)
```

```
* for more details.
```

```
*
```

```
* @private
```

```
* @param {Function} func The function to associate metadata with.
```

```
* @param {*} data The metadata.
```

```
* @returns {Function} Returns `func`.
```

```
*/
```

```
/*!
```

```
*
```

```
* Copyright 2009-2012 Kris Kowal under the terms of the MIT
```

```
* license found at http://github.com/krisowal/q/raw/master/LICENSE
```

```
*
```

```
* With parts by Tyler Close
```

```
* Copyright
```

```
2007-2009 Tyler Close under the terms of the MIT X license found
```

```
* at http://www.opensource.org/licenses/mit-license.html
```

```
* Forked at ref_send.js version: 2009-05-11
```

```
*
```

```
* With parts by Mark Miller
```

```
* Copyright (C) 2011 Google Inc.
```

```
*
```

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```


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*
*/

Found in path(s):

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-ui/swagger-ui.js

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/*!

* <https://github.com/es-shims/es5-shim>
* @license es5-shim Copyright 2009-2015 by contributors, MIT License
* see <https://github.com/es-shims/es5-shim/blob/master/LICENSE>
*/

// object is free to use the argument key to filter its

Found in path(s):

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/assets/swagger-ui/lib/es5-shim.js

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

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Found in path(s):

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-

jar/com/github/tomakehurst/wiremock/http/HttpHeader.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/StubRequestHandler.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/core/WireMockApp.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/ContentTypes.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/jetty9/JettyHttpServerFactory.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/MatchesXPathPattern.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/tasks/ResetToDefaultMappingsTask.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/client/BasicMappingBuilder.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/RequestSpec.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/FatalStartupException.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/extension/Extension.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/tasks/SaveMappingsTask.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/AbsentPattern.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/Json.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/verification/VerificationResult.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/verification/FindRequestsResult.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/Slf4jNotifier.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/RequestPatternBuilder.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/Fault.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/jetty9/JettyHttpServer.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/WireMockServer.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/StringValuePattern.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/CaseInsensitiveKey.java

*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/RequestMatcher.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/model/RequestJournalDependentResult.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/verification/NearMiss.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/UriPattern.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/Body.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/LocalNotifier.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/matching/CustomMatcherDefinition.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/client/ResponseDefinitionBuilder.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/LogNormal.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/model/GetServeEventsResult.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/standalone/WireMockServerRunner.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/tasks/NotFoundAdminTask.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/client/CountMatchingMode.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/Encoding.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/jetty9/JettyUtils.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/Urls.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/MimeType.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/tasks/RemoveStubMappingTask.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/stubbing/Scenario.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/admin/model/SingleItemResult.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/JettySettings.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/common/AdminException.java

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/matching/EagerMatchResult.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/Paginator.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/http/Response.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/model/SingleStubMappingResult.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/stubbing/InMemoryStubMappings.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/junit/WireMockRule.java
 *
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* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/com/github/tomakehurst/wiremock/junit/WireMockClassRule.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/com/github/tomakehurst/wiremock/admin/tasks/GetStubMappingTask.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/com/github/tomakehurst/wiremock/standalone/MappingsLoader.java
*
/opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-jar/com/github/tomakehurst/wiremock/extension/ExtensionLoader.java

* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/RootTask.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/GlobalSettingsUpdateTask.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/common/AbstractFileSource.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/common/ConsoleNotifier.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/http/BasicResponseRenderer.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/OldCreateStubMappingTask.java
 *
 /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/common/Exceptions.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/common/Xml.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/matching/UrlPathPattern.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/common/BiPredicate.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/FindRequestsTask.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/verification/FindServeEventsResult.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/verification/JournalBasedResult.java
 *
 /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/matching/MatchesJsonPathPattern.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/verification/LoggedRequest.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/global/GlobalSettings.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/core/FaultInjector.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/ResetTask.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/http/RequestHandler.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/core/Admin.java
 *
 /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/FindNearMissesForUnmatchedTask.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
 jar/com/github/tomakehurst/wiremock/admin/tasks/OldEditStubMappingTask.java
 * /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-

```
jar/com/github/tomakehurst/wiremock/http/HttpServer.java
* /opt/cola/permits/1289883343_1647504582.03/0/wiremock-standalone-2-5-1-sources-
jar/com/github/tomakehurst/wiremock/http/MultiValue.java
```

1.369 jetty-servlets 9.2.13.v20150730

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Found in path(s):

```
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-jar/about.html
```

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```

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```
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/CompressedResponseWrapper.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/EventSourceServlet.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/CrossOriginFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/GzipHandler.java
*
/opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/UserAgentFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/CGI.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/GzipFactory.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
```

jar/org/eclipse/jetty/servlets/IncludableGzipFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/PutFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/GzipHttpOutput.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/DataRateLimitedServlet.java
*
/opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/DeflatedOutputStream.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/MultiPartFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/GzipFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/GzipOutputStream.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/package-info.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/CloseableDoSFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/QoSFilter.java
*
/opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/gzip/AbstractCompressedStream.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/WelcomeFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/EventSource.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/DoSFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/ConcatServlet.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/AsyncGzipFilter.java
* /opt/cola/permits/1289883367_1647504586.17/0/jetty-servlets-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/servlets/package-info.java

1.370 xmlunit-legacy 2.3.0

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Found in path(s):

* /opt/cola/permits/1289883396_1647504591.15/0/xmlunit-legacy-2-3-0-jar/META-INF/maven/org.xmlunit/xmlunit-legacy/pom.xml

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Manifest-Version: 1.0

build-time: 20161112-0747

Private-Package: org.custommonkey.xmlunit,org.custommonkey.xmlunit.examples,org.custommonkey.xmlunit.exceptions,org.custommonkey.xmlunit.jsp13,org.custommonkey.xmlunit.util

Implementation-Title: org.xmlunit:xmlunit-legacy

Built-By: stefan

Tool: Bnd-2.3.0.201405100607

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"

Implementation-Vendor: XMLUnit

Implementation-Vendor-Id: org.xmlunit

X-Git-Hash: efb336025a6e2450ec9c54cea70df61340c8e7bd (Branch master)

Specification-Title: org.xmlunit:xmlunit-legacy

Bundle-License: <https://github.com/xmlunit/xmlunit/blob/master/xmlunit-legacy/LICENSE.txt>

Bundle-SymbolicName: org.xmlunit.xmlunit-legacy

X-Compile-Target-JDK: 1.6

Implementation-Version: 2.3.0

Specification-Vendor: XMLUnit

Bundle-Name: org.xmlunit:xmlunit-legacy

Created-By: Apache Maven Bundle Plugin

X-Compile-Source-JDK: 1.6

Bundle-Vendor:

XMLUnit

Build-Jdk: 1.7.0_111

Bundle-Version: 2.3.0

Bnd-LastModified: 1478933305266

Bundle-ManifestVersion: 2

Bundle-Description: XMLUnit 1.x Compatibility Layer

Bundle-DocURL: <http://www.xmlunit.org/>

Import-Package: javax.swing.text,javax.swing.text.html,javax.swing.text.html.parser,javax.xml.namespace,javax.xml.parsers,javax.xml.transform,javax.xml.transform.dom,javax.xml.transform.sax,javax.xml.transform.stream,javax.xml.validation,javax.xml.xpath,junit.framework,org.w3c

.dom,org.w3c.dom.traversal,org.xml.sax,org.xml.sax.ext,org.xml.sax.he
lpers,org.xmlunit,org.xmlunit.builder,org.xmlunit.diff,org.xmlunit.in
put,org.xmlunit.transform,org.xmlunit.util,org.xmlunit.validation,org
.xmlunit.xpath

Specification-Version: 2.3.0

Archiver-Version: Plexus Archiver

Found in path(s):

* /opt/cola/permits/1289883396_1647504591.15/0/xmlunit-legacy-2-3-0-jar/META-INF/MANIFEST.MF

1.371 jetty 9.2.13.v20150730

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Found in path(s):

```
* /opt/cola/permits/1289883428_1647504598.74/0/accessors-smart-1-1-sources-
jar/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/1289883428_1647504598.74/0/accessors-smart-1-1-sources-jar/net/minidev/asm/Accessor.java
* /opt/cola/permits/1289883428_1647504598.74/0/accessors-smart-1-1-sources-
jar/net/minidev/asm/DynamicClassLoader.java
*
/opt/cola/permits/1289883428_1647504598.74/0/accessors-smart-1-1-sources-jar/net/minidev/asm/ASMUtil.java
```

1.373 jopt-simple 4.9

1.373.1 Available under license :

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

/*

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*/

Found in path(s):

- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/ParserRules.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/ReflectionException.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionArgumentConversionException.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/util/RegexMatcher.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/NoArgumentOptionSpec.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionSpecTokenizer.java
- *
- /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionSpec.java
- * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionSpecBuilder.java

* /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/AbbreviationMap.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/MissingRequiredOptionsException.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionParserState.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Objects.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/RequiredArgumentOptionSpec.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Strings.java
 *
 /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/util/KeyValuePair.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionException.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/AbstractOptionSpec.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Messages.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/ArgumentAcceptingOptionSpec.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionSet.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/UnrecognizedOptionException.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/BuiltinHelpFormatter.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Rows.java
 *
 /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Reflection.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/NonOptionArgumentSpec.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/IllegalOptionSpecificationException.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Row.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionDescriptor.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionalArgumentOptionSpec.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/ValueConversionException.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/util/InetAddressConverter.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/AlternativeLongOptionSpec.java
 *
 /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionParser.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Columns.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
 * /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/internal/Classes.java

* /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/HelpFormatter.java
* /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/ArgumentList.java
*
/opt/cola/permits/1289883457_1647504600.91/0/jopt-simple-4-9-sources-jar/joptsimple/ValueConverter.java

1.374 httpcomponents-core 4.4.3

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1.375 commons-collections 4.0

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1.376 json-smart 2.2.1

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- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/ArraysMapper.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserString.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParser.java
- *
- /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserStream.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONAware.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/DefaultMapperCollection.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserReader.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/CollectionMapper.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserInputStream.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStreamAwareEx.java
- *
- /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONParserBase.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONArray.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/CompressorMapper.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStreamAware.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/writer/BeansMapper.java
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- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONValue.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONObject.java
- * /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-

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jar/net/minidev/json/parser/JSONParserMemory.java
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* /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1289883404_1647504571.99/0/json-smart-2-2-1-sources-
jar/net/minidev/json/parser/JSONParserByteArray.java
```

1.377 jackson-databind 2.6.1

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1.378 jetty-util 9.2.13.v20150730

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* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
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jar/org/eclipse/jetty/util/annotation/Name.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
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jar/org/eclipse/jetty/util/statistic/package-info.java
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* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/resource/PathResource.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/Scanner.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/security/Password.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/MemoryUtils.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/ssl/SslContextFactory.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/BlockingArrayQueue.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/IO.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/preventers/LDAPLeakPreventer.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/resource/BadResource.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/MultiPartInputStreamParser.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/ArrayTrie.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/annotation/ManagedObject.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/resource/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/resource/Resource.java

* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/IntrospectionUtil.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/IteratingCallback.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Loader.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/ThreadPool.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/annotation/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/FutureCallback.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/ResourceCollection.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/CertificateValidator.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/StdErrLog.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/URIUtil.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/URLResource.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Uptime.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ConcurrentArrayQueue.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/TreeTrie.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/Java2DLeakPreventer.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ssl/AliasedX509KeyManager.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/HttpCookieStore.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-

jar/org/eclipse/jetty/util/PatternMatcher.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/LoginConfigurationLeakPreventer.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/LifeCycle.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Utf8StringBuffer.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/AbstractTrie.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/Credential.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/TimerScheduler.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/LeakDetector.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/MultiPartOutputStream.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/FileResource.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/DateCache.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ClassLoadingObjectInputStream.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/AWTLeakPreventer.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/package-info.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/Logger.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/SharedBlockingCallback.java
*
/opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/AttributesMap.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/StringUtil.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/BlockingCallback.java
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Trie.java

* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/Container.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/MultiMap.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/CompletableCallback.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java
 *
 /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/Log.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/FileDestroyable.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ssl/package-info.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/Destroyable.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/TypeUtil.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/ResourceFactory.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/JarResource.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/StacklessLogging.java
 *
 /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/ExecutorThreadPool.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ByteArrayISO8859Writer.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Utf8StringBuilder.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ReadLineInputStream.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Attributes.java
 *
 /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Utf8LineParser.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/annotation/ManagedAttribute.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/Sweeper.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-

jar/org/eclipse/jetty/util/Promise.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/security/package-info.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/Fields.java
 *
 /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/B64Code.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/resource/EmptyResource.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/log/LoggerLog.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/thread/ScheduledExecutorScheduler.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/thread/NonBlockingThread.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/component/AbstractLifecycle.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/thread/ShutdownThread.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
 *
 /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/log/JettyAwareLogger.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/thread/Scheduler.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/component/ContainerLifecycle.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/preventers/SecurityProviderLeakPreventer.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/HostMap.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/Jetty.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/ArrayQueue.java
 *
 /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/Atomics.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/UrlEncoded.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/ArrayUtil.java
 * /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
 jar/org/eclipse/jetty/util/component/Graceful.java

```
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-  
jar/org/eclipse/jetty/util/CountingCallback.java
```

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```
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-jar/about.html
```

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```
/*
```

```
* @(#)UnixCrypt.java 0.9 96/11/25
```

```
*
```

```
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```

```
*
```

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```
*/
```

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* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-  
jar/org/eclipse/jetty/util/security/UnixCrypt.java
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```

```
/**
```

```
* Utf8 Appendable abstract base class
```

```
*
```

```
* This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8  
encoded bytes, that are converted into characters.
```

```
*
```

```
* This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is  
appended to the string buffer.
```

```

*
* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
inspired by
* http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
*
* License information
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*
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```

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```

* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/util/Utf8Appendable.java

```

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```

```

/**

```

```

* @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
*         2=DC_CONFIDENTIAL

```

```

*/

```

```

/**

```

```

* @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
*         2=DC_CONFIDENTIAL

```

```

*/

```

Found in path(s):

```
* /opt/cola/permits/1289883465_1647504616.25/0/jetty-util-9-2-13-v20150730-sources-  
jar/org/eclipse/jetty/util/security/Constraint.java
```

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```
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jar/org/eclipse/jetty/util/Callback.java
```

1.379 httpcomponents-client 4.5.1

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

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1.381 jackson-annotations 2.6.1

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jar/org/eclipse/jetty/security/ConstraintAware.java
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jar/org/eclipse/jetty/security/CrossContextPsuedoSession.java
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* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/AbstractUserAuthentication.java
*
/opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/DigestAuthenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/HashLoginService.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/MappedLoginService.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/FormAuthenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/ClientCertAuthenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/RoleInfo.java
*
/opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/PropertyUserStore.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/SpnegoUserIdentity.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/Authenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/HashCrossContextPseudoSession.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/LoginCallback.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/SpnegoAuthenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/SecurityHandler.java
*
/opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/DefaultUserIdentity.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/ServerAuthException.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/DefaultIdentityService.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/RoleRunAsToken.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/SessionAuthentication.java
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/opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/authentication/LoginAuthenticator.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/UserDataConstraint.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/authentication/DeferredAuthentication.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/package-info.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/JDBCLoginService.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
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*
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/opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/SpnegoLoginService.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/UserAuthentication.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/RunAsToken.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/authentication/package-info.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
* /opt/cola/permits/1289883496_1647504573.48/0/jetty-security-9-2-13-v20150730-sources-
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* /opt/cola/permits/1289883542_1647504587.82/0/jetty-xml-9-2-13-v20150730-sources-jar/org/eclipse/jetty/xml/ConfigurationProcessor.java

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Found in path(s):

* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/ContinuationFilter.java
* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/package-info.java
*
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* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/Continuation.java
* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/ContinuationSupport.java
* /opt/cola/permits/1289883359_1647504611.55/0/jetty-continuation-9-2-13-v20150730-sources-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java

1.385 zjsonpatch 0.2.1

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1.386 gmp 6.1.2+dfsg-4+deb10u1

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This gmp package was built for Debian by

Steve M. Robbins <smr@debian.org>

Philipp Matthias Hahn <pmhahn@debian.org>

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1.387 pcre 8.39-12build1

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Written by: Philip Hazel

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1.388 go-shellwords 1.0.5

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1.389 cast 1.3.0

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1.390 jwalterweatherman 1.0.0

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1.391 xz 5.2.4-1+deb10u1

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1.394 gorm 1.9.10

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1.395 squirrel 1.5.0

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1.396 antlr 4.5.1-1

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ANTLRParser.java

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*/

/** How to generate rules derived from left-recursive rules.

* These rely on recRuleAltPredicate(),

* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()

* templates in main language.stg

*/

group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,

userRetvals, leftRecursiveRuleRefLabels) ::=

<<

<ruleName><if(userRetvals)>

returns [<userRetvals>]<endif>

: ({ } <primaryAlts:{ alt | <alt.altText> }; separator="\n | ">

)


```
(
  <opAlts; separator="\n    | ">
)*
;
>>
```

```
recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>\> <alt.altText>
>>
```

Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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*/

tree grammar ATNBuilder;

options {

```

language    = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
// filter    = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}

```

```
dummy : block[null] ; // avoid error about no start rule
```

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {  
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();  
    int alt = 1;  
    factory.setCurrentOuterAlt(alt);  
}  
:  
^(BLOCK  
    (^ (OPTIONS .*)?  
    ( a=alternative  
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}  
    )+  
    )  
    {$p  
= factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}  
;
```

```
block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}  
:  
^(BLOCK (^ (OPTIONS .*)? (a=alternative {alts.add($a.p);}))+  
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}  
;
```

```
alternative returns [ATNFactory.Handle p]
```

```
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}  
:  
^(LEXER_ALT_ACTION a=alternative lexerCommands)  
    {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}  
| ^ (ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}  
| ^ (ALT elementOptions? (e=element {els.add($e.p);}))+ {$p = factory.alt(els);}  
;
```

```
lexerCommands returns [ATNFactory.Handle p]
```

```
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}  
:  
(c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);}+  
    {  
    $p = factory.alt(cmds);  
    }  
);
```

```
lexerCommand returns [ATNFactory.Handle
```

```
cmd]  
:  
^(LEXER_ACTION_CALL ID lexerCommandExpr)  
    {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}  
| ID  
    {$cmd = factory.lexerCommand($ID);}  
;
```

lexerCommandExpr

```
: ID
| INT
;
```

element returns [ATNFactory.Handle p]

```
: labeledElement {$p = $labeledElement.p;}
| atom {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;
```

astOperand returns [ATNFactory.Handle p]

```
: atom {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;
```

labeledElement returns [ATNFactory.Handle p]

```
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;
```

subrule

```
returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;
```

blockSet[boolean invert] returns [ATNFactory.Handle p]

```
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;
```

/** Don't combine with atom otherwise it will build spurious ATN nodes */

setElement

```
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
```

```
| LEXER_CHAR_SET
```

```
;
```

```
atom returns [ATNFactory.Handle p]
```

```
: range    {$p = $range.p;}
```

```
| ^(DOT ID terminal) {$p = $terminal.p;}
```

```
| ^(DOT ID ruleref) {$p = $ruleref.p;}
```

```
| ^(WILDCARD .) {$p = factory.wildcard($start);}
```

```
| WILDCARD {$p = factory.wildcard($start);}
```

```
| blockSet[false] {$p =
```

```
$blockSet.p;}
```

```
| terminal {$p = $terminal.p;}
```

```
| ruleref {$p = $ruleref.p;}
```

```
;
```

```
ruleref returns [ATNFactory.Handle p]
```

```
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS *)) {$p = factory.ruleRef($RULE_REF);}
```

```
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
```

```
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
```

```
;
```

```
range returns [ATNFactory.Handle p]
```

```
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
```

```
;
```

```
terminal returns [ATNFactory.Handle p]
```

```
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
```

```
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
```

```
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
```

```
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
```

```
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
```

```
;
```

```
elementOptions
```

```
: ^(ELEMENT_OPTIONS elementOption*)
```

```
;
```

```
elementOption
```

```
: ID
```

```
| ^(ASSIGN ID ID)
```

```
| ^(ASSIGN
```

```
ID STRING_LITERAL)
```

```
| ^(ASSIGN ID ACTION)
```

```
| ^(ASSIGN ID INT)
```

```
;
```

```
Found in path(s):
```

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ATNBuilder.g
```

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 */

/** ANTLR tool checks output templates are compatible with tool code generation.
 * For now, a simple string match used on x.y of x.y.z scheme.
 * Must match Tool.VERSION during load to templates.
 *
 * REQUIRED.
 */

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a
```

primitive type is an object

]

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
# encoding: utf-8
```

```
from __future__ import print_function
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
<header>
```

```
# This class defines a complete listener for a parse tree produced by <file.parserName>.
```

```
class <file.grammarName>Listener(ParseTreeListener):
```

```
    <file.listenerNames> {lname |
```

```
    # Enter a parse tree produced by <file.parserName>#<lname>.
```

```
    def enter<lname; format="cap">(self, ctx):
```

```
        pass
```

```
    # Exit a parse tree produced by <file.parserName>#<lname>.
```

```
    def exit<lname; format="cap">(self, ctx):
```

```
        pass
```

```
}; separator="\n">
```

```
>>
```

```
VisitorFile(file, header) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
<header>
```

```
#
```

```
This class defines a complete generic visitor for a parse tree produced by <file.parserName>.
```

```
class <file.grammarName>Visitor(ParseTreeVisitor):
```

```

    <file.visitorNames:{ lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">

>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{ t | u<t> }; null="u"\<INVALID>"", separator=", ", wrap, anchor ]

    symbolicNames = [ <parser.symbolicNames:{ t | u<t> }; null="u"\<INVALID>"", separator=", ", wrap, anchor ]

    <parser.rules:{ r | RULE_<r.name> = <r.index> }; separator="\n", wrap, anchor>

    ruleNames = [ <parser.ruleNames:{ r | u"<r>" }; separator=", ", wrap, anchor ]

    EOF = <TokenLabelType().EOF
    <if(parser.tokens)>
    <parser.tokens:{ k | <k>=<parser.tokens.(k)> }; separator="\n", wrap, anchor>
    <endif>

```



```

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates == None:
      self._predicates = dict()
<parser.sempredFuncs.values: { f |
  self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n
  " >
  pred = self._predicates.get(ruleIndex, None)
  if pred is None:
    raise Exception("No
predicate with index:" + str(ruleIndex))
  else:
    return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
    actions = dict()
<recog.actionFuncs.values: { f |
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n" >
  self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
    action(localctx, actionIndex)
  else:
    raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
  if self._predicates is None:

```

```

    preds = dict()
<recog.sempredFuncs.values:{f}
    preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input):
    super(<parser.name>, self).__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
    <actions:{index|
    <if(first(actions))>
        if actionIndex == <index>:
            <actions.(index)>
    <elseif(rest(actions))>
        elif actionIndex == <index>:
            <actions.(index)>
    <endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding
* implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions:{index|
    <if(first(actions))>
        if predIndex == <index>:

```

```

        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=

<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):

```

```

_parentctx = self._ctx
_parentState = self.state
localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>>)
_prevctx = localctx
_startState = <currentRule.startState>
self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
<namedActions.init>
<locals; separator="\n">
try:
    <code>
    <postamble; separator="\n">

<namedActions.after>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble;
separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
}; separator="\nel">
else:

```

```

    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass }; separator="\n">
else:
    <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error;!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

LL1PlusBlockSingleAlt(choice,
loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>

```

```

    if not (<loopExpr>):
        break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">

>>

StarBlock(choice,
alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<

```

```

self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nел">
    else:
        <error>
self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount>
- <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>

```

```

%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<parser.name>.<ttype>} ; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{ t | <parser.name>.<t>} ; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{ l | <labelref(l)> =
}><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture,
true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{ l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{ l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

```



```

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

```

// lexer actions are not associated with model
objects

```

```

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

```

```

LexerTypeCommand(arg)    ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg)    ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

```

```

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

```

```

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0
if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type()"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"

```

```

TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r)
  ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)
  ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

```

```

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix()
    ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
class <struct.name>(<superClass>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>>):
        super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

```

```

<getters:{g | <g>}; separator="\n\n">

def getRuleIndex(self):
    return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless
we have subclasses !>
def copyFrom(self, ctx):
    super(<parser.name>.<struct.name>, self).copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

```

```

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self,
    _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName>;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<

```

```

<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import
    print_function
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

    <lexer.tokens:{k| <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

    modeNames = [ <lexer.modes:{m| u"<m>">]; separator=", ", wrap, anchor ]

    literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t| u<t>}; separator=", ", wrap, anchor ]

    symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t| u<t>}; separator=", ", wrap, anchor ]

    ruleNames = [ <lexer.ruleNames:{r| u"<r>">]; separator=", ", wrap, anchor ]

    grammarFileName = u"<lexer.grammarFileName>"

    def __init__(self, input=None):
        super(<lexer.name>,
            self).__init__(input)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

    <namedActions.members>

```

```

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={ }<\n>    buf.write(u"}>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD licence"]
Copyright (c) 2006 Kay Roepke
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```

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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

/*

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*

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*/

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using
    Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
```

```
ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

///
```

```

/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames: {Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
///
    Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n"
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
    <file.genPackage> {
<endif>
<header>

```

```

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames: {Iname |
/// \<summary>
/// Enter a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(Iname)>"/>.
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void
    Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context context) {
    \}
/// \<summary>
/// Exit a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(Iname)>"/>.
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \} }; separator="\n">

/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
///
\<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>

```

```

namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
    <file.visitorNames:{ lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit
    a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
    }
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,

```

```

// which can be extended
// to create a visitor which only needs to handle a subset
// of the available methods.
// \</summary>
// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I<file.grammarName>Visitor<Result> {
    <file.visitorNames> { Iname |
// \<summary>
// Visit a parse tree produced by \<see cref="<csIdentifier.(file.parserName)>.<csIdentifier.(Iname)>">.
// \<para>
// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)">
// on \<paramref name="context">.
// \</para>
// \</summary>
// \<param name="context">The parse tree.\</param>
// \<return>The visitor result.\</return>
public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context
context) { return VisitChildren(context); \} }; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
// \<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
// \</auto-generated>
//-----

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591

```

>>

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
```

```
<Parser_(ctor="parser_ctor", ...)>
```

>>

```
Parser_(parser,
```

```
  funcs, atn, sempredFuncs, ctor, superClass) ::= <<
```

```
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
```

```
[System.CLSCompliant(false)]
```

```
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
```

```
  <if(parser.tokens)>
```

```
  public const int
```

```
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
```

```
  <endif>
```

```
  public const int
```

```
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
```

```
  public static readonly string[] ruleNames = {
```

```
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
```

```
  };
```

```
<vocabulary(parser.literalNames, parser.symbolicNames)>
```

```
public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }
```

```
public override string[] RuleNames { get { return ruleNames; } }
```

```
public override string SerializedAtn { get { return _serializedATN; } }
```

```
<namedActions.members>
```

```
<parser:(ctor)()>
```

```
<funcs; separator="\n">
```

```
<if(sempredFuncs)>
```

```
public override bool Sempred(RuleContext
```

```
  _localctx, int ruleIndex, int predIndex) {
```

```
  switch (ruleIndex) {
```

```
  <parser.sempredFuncs.values:{f]
```

```
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
```

```
  }
```

```
  return true;
```

```
  }
```

```
<sempredFuncs.values; separator="\n">
```

```
<endif>
```

```
<atn>
```

```
}
```

>>

```
vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
    <literalNames:{t | <t>} ; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
    <symbolicNames:{t | <t>} ; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);
```

```
[NotNull]
public override IVocabulary Vocabulary
{
    get
    {
        return DefaultVocabulary;
    }
}
>>
```

```
dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
    case <f.ruleIndex>
        : <f.name>_action(<if(!recog.modes)><f.ctxType><endif>_localctx, actionIndex); break;}; separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values:{f}
    case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)><f.ctxType><endif>_localctx, predIndex);};
    separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input)
    : base(input)
```

```

{
  Interpreter = new ParserATNSimulator(this,_ATN);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>: <actions.(index)> break;};
separator="\n">
  }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals;

```



```

separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  <endif>
  finally {
    <finallyAction>
    ExitRule();
  }
  return _localctx;
}
>>

```

```

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
  <csIdentifier(a.name)>>});
  EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try
  {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
  }
}

```

```

    ErrorHandler.Recover(this, re);
}
finally {
    <finallyAction>
    ExitRule();
}
return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
    EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
    <namedActions.init>
    <locals;
    separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;
        ErrorHandler.ReportError(this, re);
        ErrorHandler.Recover(this, re);
    }
    finally {
    <finallyAction>
    ExitRule();
    }
    return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", "> {
  return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
  ParserRuleContext _parentctx
  = Context;
  int _parentState = State;
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
  <csIdentifier.(a.name)>}>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
    <finallyAction>
    UnrollRecursionContexts(_parentctx);
  }
  return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel>
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx,
  <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>

```

>>

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = TokenStream.Lt(1);<endif>
<preamble; separator="\n">
switch (TokenStream.La(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
switch (TokenStream.La(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<preamble;
separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
```

```

State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  State = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  State = <choice.stateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = TokenStream.Lt(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context)
) {
<alts:{ alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
<!ErrorHandler.sync(this);!>
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}

```

>>

```
StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>
```

```
PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision
!>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.InvalidAltNumber );
>>
```

```
Sync(s) ::= "Sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
```

```

((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more
// than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \<< <offsetShift(tokenType.(ttype), bits.shift)>}); separator=" | ">) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <tokenType.(t)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{1
| <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.Lt(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><expr> ) {

```

```

<if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
    Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e,
    catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg)    ::= "_type = <tokenType.(arg)>);"
LexerChannelCommand(arg) ::= "_channel = <channelName.(arg)>);"
LexerModeCommand(arg)    ::= "_mode = <modeName.(arg)>);"
LexerPushModeCommand(arg) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"

```



```

/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks)
::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r)
::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.Lt(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t)
::= "<TokenLabelType()> <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>);"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"

```

```

RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
    "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
    GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int
i) {
    return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
    return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
    return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) {
    return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

```

```

CaptureNextToken(d) ::= "<d.varName> = TokenStream.Lt(1);"
CaptureNextTokenType(d) ::= "<d.varName>
= TokenStream.La(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> : <superClass><if(interfaces)>, <interfaces; separator=", "><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
: base(parent, invokingState)
{
<struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
}
public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
base.CopyFrom(context);
<struct.attrs:{a | this.<csIdentifier.(a.name)>
= context.<csIdentifier.(a.name)>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name; format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
<dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName>;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
    I<parser.grammarName>Visitor<TResult>
    typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
    if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
    else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)><endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()
    ::= "Context.Stop = TokenStream.Lt(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.Add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <endif>
    <endif>
    PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
    _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
    _parentState));
    <if(label)>
    <if(isListLabel)>
        ((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
    <else>
        ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
    <endif>
    <endif>
>>

```

```
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
```

```
>>
```

```
recRuleReplaceContext(ctxName) ::= <<  
_localctx = new <ctxName>Context(_localctx);  
Context = _localctx;  
_prevctx = _localctx;  
>>
```

```
recRuleSetPrevCtx()  
::= <<  
if ( ParseListeners!=null )  
    TriggerExitRuleEvent();  
_prevctx = _localctx;  
>>
```

```
LexerFile(file, lexer, namedActions) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
namespace <file.genPackage> {  
<endif>  
<namedActions.header>  
using System;  
using Antlr4.Runtime;  
using Antlr4.Runtime.Atn;  
using Antlr4.Runtime.Misc;  
using DFA = Antlr4.Runtime.Dfa.DFA;  
  
<lexer>  
<if(file.genPackage)>  
} // namespace <file.genPackage>  
<endif>  
>>
```

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<  
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]  
[System.CLSCompliant(false)]  
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {  
    public const int  
        <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;  
    <if(lexer.channels)>  
    public const int  
        <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;  
    <endif>  
    <rest(lexer.modes):{m |  
        public const int <modeName.(m)> = <i>;}; separator="\n">  
    public static string[] modeNames = {
```

```

<lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
<lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: base(input)
{
Interpreter = new LexerATNSimulator(this,_ATN);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return _serializedATN; } }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
public static readonly string _serializedATN =
"<model.serialized; wrap={ "+<n><t>"}>";
public static readonly ATN _ATN
=
new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());
>>

initValue(typeName) ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
"DEFAULT_MODE" : "DefaultMode",
default : key

```

```
]
```

```
channelName ::= [  
  "HIDDEN" : "Hidden",  
  "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",  
  default : key  
]
```

```
tokenType ::= [  
  "EOF" : "Eof",  
  default : key  
]
```

```
csIdentifier ::= [  
  "abstract" : "@abstract",  
  "as" : "@as",  
  "base" : "@base",  
  "bool" : "@bool",  
  "break" : "@break",  
  "byte" : "@byte",  
  "case" : "@case",  
  "catch" : "@catch",  
  "char" : "@char",  
  "checked" : "@checked",  
  "class" : "@class",  
  "const" : "@const",  
  "continue" : "@continue",  
  "decimal" : "@decimal",  
  "default" : "@default",  
  "delegate" : "@delegate",  
  "do" : "@do",  
  "double" : "@double",  
  "else" : "@else",  
  "enum" : "@enum",  
  "event" : "@event",  
  "explicit" : "@explicit",  
  "extern" : "@extern",  
  "false" : "@false",  
  "finally" : "@finally",  
  "fixed" : "@fixed",  
  "float" : "@float",  
  "for" : "@for",  
  "foreach"  
  : "@foreach",  
  "goto" : "@goto",  
  "if" : "@if",  
  "implicit" : "@implicit",  
  "in" : "@in",
```

```
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
>null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
>true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual"
: "@virtual",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```


Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg

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* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ANTLRParser.g

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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

/** Find left-recursive rules */

tree grammar LeftRecursiveRuleWalker;

```
options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}
```

```
@header {
  package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
  private String ruleName;
  private int currentOuterAltNumber; // which outer alt of rule?
  public int
  numAlts; // how many alts for this rule total?
```

```
public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}
```

```

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
ruleModifier?
// ( ARG_ACTION)? shouldn't allow args, right?
^( RETURNS a=ARG_ACTION {setReturnValues($a);} )?
// ( ^ ( THROWS .+ ) )? don't allow
( ^ ( LOCALS ARG_ACTION ) )? // TODO: copy these to gen'd code
( ^ ( OPTIONS .* )
| ^ ( AT ID ACTION ) // TODO: copy
)*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec; }
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^ ( CATCH ARG_ACTION ACTION )
;

finallyClause
: ^ ( FINALLY ACTION )
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init { boolean lr=false; this.numAlts = $start.getChildCount(); }
: ^ ( BLOCK
(
o=outerAlternative
{ if ($o.isLeftRec) $isLeftRec = true; }
{ currentOuterAltNumber++; }

```

```

)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>    binary
                {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>    prefix
                {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>    suffix
                {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^(
  ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  ({!((CommonTree)input.LT(1)).getText().equals(ruleName)}? element)+
  recurse epsilonElement*
  )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})

```

```

| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF        {$t = $c;}
;

```

elementOptions

```

: ^(ELEMENT_OPTIONS elementOption*)
;

```

elementOption

```

: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

element

```

: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;

```

epsilonElement

```

: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;

```

setElement

```

: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;

```

ebnf: block

```

| ^( OPTIONAL block )

```

```
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT
ID element)
;
```

Found in path(s):

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
```

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```
/*
```

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```

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```
*
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 */

```
tree grammar BlockSetTransformer;
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  output = AST;
  filter = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import
  java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
```

```

| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
  boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}?
// top-level: rule block and > 1 alt
^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]) )+ )
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]) )+ )
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: (^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1})?

```



```

| a=STRING_LITERAL { !inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
| { !inLexer }?=> ^(TOKEN_REF elementOptions)
| { !inLexer }?=> TOKEN_REF
| { inLexer }?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL
  { CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
  &&
  CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1 }?
)
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;

```

Found in path(s):

```

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/parse/BlockSetTransformer.g

```

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```

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```

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.

```

```

* For now, a simple string match used on x.y of x.y.z scheme.

```

```

* Must match Tool.VERSION during load to templates.

```

```

*

```

```

* REQUIRED.

```

```

*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a
  primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

```

```

<namedActions.header>

```

```

<parser>

```

```

>>

```

```

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

```

```

// This class defines a complete listener for a parse tree produced by <file.parserName>.

```

```

function <file.grammarName>Listener() {

```

```

  antlr4.tree.ParseTreeListener.call(this);

```

```

return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{ lname
|
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
\};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<header>

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{ lname |
// Visit a parse tree produced by
<file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null",
separator=", ", wrap, anchor> ];

var ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
<superClass; null="antlr4.Parser">.call(this, input);
this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
this.ruleNames = ruleNames;
this.literalNames = literalNames;
this.symbolicNames = symbolicNames;
<namedActions.members>
return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
get : function() {
return atn;
}
});

<parser.name>.EOF = antlr4.Token.EOF;

```

```

<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sempredFuncs)>
<parser.name>.prototype.sempred
= function(localctx, ruleIndex, predIndex) {
switch(ruleIndex) {
<parser.sempredFuncs.values:{f | case <f.ruleIndex>:
return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
default:
    throw "No predicate with index:" + ruleIndex;
}
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
switch (ruleIndex) {
<recog.actionFuncs.values:{f}
case <f.ruleIndex>:
this.<f.name>_action(localctx, actionIndex);
break;}; separator="\n">
default:
    throw "No registered action for:" + ruleIndex;
}
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
switch (ruleIndex) {
<recog.sempredFuncs.values:{f} case <f.ruleIndex>:
return this.<f.name>_sempred(localctx,
predIndex);}; separator="\n">
default:

```

```

    throw "No registered predicate for:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>
>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
    break;}; separator="\n">
    default:
      throw "No registered action for:" + actionIndex;
  }
};
>>

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
<if(parser)><parser.name><else><lexer.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
  switch(predIndex) {
    <actions:{index| case <index>:
return <actions.(index)>;}; separator="\n">
    default:
      throw
      "No predicate with index:" + predIndex;
  }
};
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

```

```

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

    var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
    this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    } catch (re) {
        if(re instanceof antlr4.error.RecognitionException) {
            localctx.exception
= re;
            this._errHandler.reportError(this, re);
            this._errHandler.recover(this, re);
        } else {
            throw re;
        }
    }<endif> finally {
        <finallyAction>
        this.exitRule();
    }
    return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=

<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
    if(_p===undefined) {
        _p = 0;
    }
    var _parentctx = this._ctx;

```



```

var _parentState = this.state;
var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{ a | , <a.name>}>);
var _prevctx = localctx;
var _startState = <currentRule.startState>;
this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {

    <code>
    <postamble; separator="\n">
    <namedActions.after>
} catch( error) {
    if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
    } else {
        throw error;
    }
} finally {
    <finallyAction>
    this.unrollRecursionContexts(_parentctx)
}
return localctx;
};

>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice,
preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">

```

```

switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
< !_errHandler.sync(this);!>
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
< !_errHandler.sync(this);!>
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble;
separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">

```

```

do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
<!_errHandler.sync(this);!>
var
  la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
}

```

```
_alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}
```

```
>>
```

```
PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break;};
  separator="\n">
  default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>
```

```
// Javascript language spec - shift operators are 32 bits long max
```

```
testShiftInRange(shiftAmount) ::= <<
```

```
((<shiftAmount>) & ~0x1f) == 0
```

```
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
```

```
bitsetBitfieldComparison(s, bits) ::= <%
```

```
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">) != 0)
%>
```

```
isZero ::= [
```

```
"0":true,
```

```
default:false
```

]

```
offsetShiftVar(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>  
>%>
```

```
offsetShiftType(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>  
>%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items  
bitsetInlineComparison(s, bits) ::= <%  
<bits.ttypes:{ ttype | <s.varName>====<parser.name>.<ttype>}; separator=" || ">  
>%>
```

```
cases(ttypes) ::= <<  
<ttypes:{ t | case <parser.name>.<t>:}; separator="\n">  
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<  
this.state = <r.stateNumber>;  
<if(r.labels)><r.labels:{1 | <labelref(1)> =  
}><endif>this.<r.name><if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu  
nks>;  
>>
```

```
MatchToken(m) ::= <<  
this.state = <m.stateNumber>;  
<if(m.labels)><m.labels:{1  
| <labelref(1)> = }><endif>this.match(<parser.name>.<m.name>);  
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<  
this.state = <m.stateNumber>;  
<if(m.labels)><m.labels:{1 | <labelref(1)> = }>this._input.LT(1);<endif>  
<capture>  
<if(invert)>if(<m.varName><=0 || <expr>)<else>if(!(<expr>))<endif> {  
  <if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>this._errHandler.recoverInline(this);  
}  
else {  
  this.consume();  
}  
>>
```

```

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
    throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
    <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg) ::= "this._type = <arg>"
LexerChannelCommand(arg) ::= "this._channel = <arg>"
LexerModeCommand(arg) ::= "this._mode = <arg>"
LexerPushModeCommand(arg) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType;"

```

```

null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label>===null
? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl)
::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
<t.name> = function() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
  if(i===undefined) {
    i = null;
  }
  if(i===null) {
    return this.getTokens(<parser.name>.<t.name>);
  } else {
    return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

```

```

ContextRuleGetterDecl(r) ::= <<
<r.name> = function() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};

>>

```

```

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
  if(i===undefined) {
    i = null;
  }
  if(i===null) {
    return this.getTypedRuleContexts(<r.ctxName>);
  } else {
    return this.getTypedRuleContext(<r.ctxName>,i);
  }
};

>>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */

```

```

RuleContextNameSuffix() ::= "Context"

```

```

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"

```



```

ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ antlr4.ParserRuleContext }) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}> ) {
  if(parent===undefined) {
    parent = null;
  }
  if(invokingState===undefined || invokingState===null) {
    invokingState = -1;
  }
  <superClass>.call(this,
  parent, invokingState);
  this.parser = parser;
  this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
  <attrs:{a | <a>} ; separator="\n">
  <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;} ; separator="\n">
  return this;
}

<struct.name>.prototype = Object.create(<superClass>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>} ; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
  <superClass>.prototype.copyFrom.call(this, ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>} ; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
  <currentRule.name; format="cap">Context.call(this, parser);
  <attrs:{a | <a>} ; separator="\n">
  <currentRule.name>;
  format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

```

```

}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">
<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
  }
};

>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else
  {
    return visitor.visitChildren(this);
  }
};

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<

```

```

localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel>
  format="cap">Context(this, new <ruleName; format="cap">Context(this, _parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
  this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
var antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

```

```

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index);
});

function <lexer.name>(input) {
  <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
  this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
  return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens>:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>

<rest(lexer.modes):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<lexer.name>.modeNames = [ <lexer.modes:{m| "<m>" }; separator=", ", wrap, anchor ] ;

<lexer.name>.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor ] ;

<lexer.name>.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor ] ;

<lexer.name>.ruleNames = [ <lexer.ruleNames:{r | "<r>" }; separator=", ", wrap, anchor ] ;

<lexer.name>.grammarFileName
= "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var serializedATN = ["<model.serialized; wrap={ ",<n> " }>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<

```

```
<javaTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".js"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
```

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/*
```

```
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```

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
```

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*/

```

```

/** templates used to generate make-compatible dependencies */

```

```

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>} ; separator="\n">
>>

```

Found

in path(s):

```

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/templates/depend.stg

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```

```

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* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/parse/GrammarToken.java

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/Recognizer.java

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a
  primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

```



```

ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames: {lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self,
ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

>>

```

```

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames: {lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

```

```

del <file.parserName>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser,
  funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor ]

  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

  ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor ]

  EOF = <TokenLabelType().EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">

```

```

<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
      self._predicates = dict()
<parser.sempredFuncs.values: {f |
  self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n
  " >
  pred = self._predicates.get(ruleIndex, None)
  if pred is None:
    raise Exception("No predicate with index:" + str(ruleIndex))
  else:
    return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>

```

```
>>
```

```

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
  if self._actions is None:
    actions = dict()
<recog.actionFuncs.values: {f |
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is
  not None:
    action(localctx, actionIndex)
  else:
    raise Exception("No registered action for:" + str(ruleIndex))

  <actionFuncs.values; separator="\n">

```

```

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
  if self._predicates is None:
    preds = dict()
<recog.sempredFuncs.values: {f |
  preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
  self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:

```

```

        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
    super().__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the
actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">

```

>>

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions) ::= <<
```

```
<ruleCtx>
```

```
<altLabelCtxs:{l  
| <altLabelCtxs.(l)>}; separator="\n">
```

```
def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)><a.type><endif>}>):
```

```
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)  
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)  
    <namedActions.init>  
    <locals; separator="\n">  
    try:  
        <code>  
        <postamble; separator="\n">  
        <namedActions.after>  
    <if(exceptions)>  
        <exceptions; separator="\n">  
    <else>  
    except RecognitionException as re:  
        localctx.exception = re  
        self._errHandler.reportError(self, re)  
        self._errHandler.recover(self, re)  
    <endif>  
    finally:  
        <finallyAction>  
        self.exitRule()  
    return localctx
```

>>

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,  
namedActions,finallyAction,postamble) ::=
```

```
<<
```

```
<ruleCtx>
```

```
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
def
```

```
<currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):  
    _parentctx = self._ctx  
    _parentState = self.state  
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)  
    _prevctx = localctx
```

```

    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
}; separator="\nel">
else:
    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>

```

```

<!_errHandler.sync(this);!>
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
    pass }; separator="\n!>
else:
  <error>
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr,
alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
    break

>>

```

```

// LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
<if(choice.label)><labelref(choice.label)>
= _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">

>>

```

```

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
<!_errHandler.sync(this);!>
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">

>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    if _alt==1<if(!choice.ast.greedy)>+1<endif>:
        <iteration>
        <alts> <! should only be one !>
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)

    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
    <alts:{alt|

```



```

if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
    self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to
0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>} ; separator=" or ">

```

```
%>
```

```
cases(ttypes) ::= <<  
if token in [<ttypes:{t | <parser.name>.<t>}];  
separator=", ">]:  
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<  
self.state = <r.stateNumber>  
<if(r.labels)><r.labels:{l | <labelref(l)> =  
>><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu  
nks>  
>>
```

```
MatchToken(m) ::= <<  
self.state = <m.stateNumber>  
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)  
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<  
self.state = <m.stateNumber>  
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>  
<capture>  
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:  
<if(m.labels)><m.labels:{l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)  
else:  
self.consume()  
>>
```

```
Wildcard(w) ::= <<  
self.state = <w.stateNumber>  
<if(w.labels)><w.labels:{l  
| <labelref(l)> = }><endif>self.matchWildcard()  
>>
```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<  
self.state = <p.stateNumber>  
if not <chunks>:
```

```

    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
    <p.msg><endif>)
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

```

// lexer actions are not associated with model objects

```

```

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

```

```

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a)
    ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

```

```

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

```

```

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t)
    ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

```

```

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"

```

```

RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

```

```

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

```

```

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

```

```

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

```

```

TokenDecl(t)
::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

```

```

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

```

```

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

```

```

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>

```

```

//
should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext})
::= <<
class <struct.name>(<superClass>):

    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,
<a.name><if(a.type)>:<a.type><endif>=None }>):
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{ a | <a> }; separator="\n">
        <struct.ctorAttrs:{ a | self.<a.name> = <a.name> }; separator="\n">

        <getters:{ g | <g> }; separator="\n\n">

    def getRuleIndex(self):

```

```

return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
def copyFrom(self, ctx:ParserRuleContext):
    super().copyFrom(ctx)
    <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">

<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name><(currentRule.name; format="cap">Context):

    def __init__(self, parser,
    ctx:ParserRuleContext): # actually a <parser.name>.<(currentRule.name; format="cap">Context
        super().__init__(parser)
        <attrs:{ a | <a> }; separator="\n">
        self.copyFrom(ctx)

    <getters:{ g | <g> }; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/**

```

```

If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName>;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label>
= _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
self.triggerExitRuleEvent()
_prevctx = localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

```

```

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name><(if(superClass)><superClass><else>Lexer<endif>>:

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

    <lexer.tokens:{k | <k> = <lexer.tokens.(k)>};
separator="\n", wrap, anchor>

    modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

    literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

    symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

    ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

    grammarFileName = "<lexer.grammarFileName>"

    def __init__(self, input=None):
        super().__init__(input)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

```



```
def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized;
wrap={"}<\n>    buf.write("}>")
        return buf.getvalue()
```

```
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
```

```
*/
```

```
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".py"
```

Found in path(s):

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
```

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```

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```

```
*/
```

Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ATNBuilder.java

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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

* Parses trees created by ANTLRParser.g.

*

* Rather than have multiple tree grammars, one for each visit, I'm

* creating this generic visitor that knows about context. All of the

* boilerplate pattern recognition is done here. Then, subclasses can

* override the methods they care about. This

prevents a lot of the same

* context tracking stuff like "set current alternative for current

* rule node" that is repeated in lots of tree filters.

*/

tree grammar GrammarTreeVisitor;

```
options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
[The "BSD license"]
```

```
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```

```
All rights reserved.
```

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```
*/
```

```
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}
```

```
@members
```

```
{
```

```
public String grammarName;
```

```

public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if
        ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }

```

```

public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule)
{ }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST)
{ }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }

```

```
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) {
}
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void
enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }
```

```
protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST
tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void
exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }
```

```
protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }
```

```
protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }
```

```
protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }
```

```
protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }
```

```
protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }
```

```
protected void enterLexerSubrule(GrammarAST
tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }
```

```
protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }
```

```
protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }
```

```
protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }
```

```
protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }
```

```
protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }
```

```
protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }
```



```

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST
tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
{discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
prequelConstructs
{finishPrequels($prequelConstructs.firstOne);}
rules mode*
{finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
    enterPrequelConstructs($start);
}
@after {
    exitPrequelConstructs($start);
}
}

```

```
: {$firstOne=$start;} prequelConstruct+  
|  
;
```

```
prequelConstruct  
@init  
{  
  enterPrequelConstructs($start);  
}  
@after {  
  exitPrequelConstructs($start);  
}  
: optionsSpec  
  | delegateGrammars  
  | tokensSpec  
  | channelsSpec  
  | action  
;
```

```
optionsSpec  
@init {  
  enterOptionsSpec($start);  
}  
@after {  
  exitOptionsSpec($start);  
}  
: ^(OPTIONS option*)  
;
```

```
option  
@init {  
  enterOption($start);  
  boolean rule = inContext("RULE ...");  
  boolean block = inContext("BLOCK ...");  
}  
@after {  
  exitOption($start);  
}  
: ^(a=ASSIGN ID v=optionValue)  
  {  
    if ( block ) blockOption($ID, $v.start); // most specific first  
    else if ( rule ) ruleOption($ID, $v.start);  
    else grammarOption($ID, $v.start);  
  }  
;
```

```
optionValue returns [String v]  
@init {
```

```

enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

```

```

delegateGrammars
@init {
enterDelegateGrammars($start);
}
@after {
exitDelegateGrammars($start);
}
: ^(IMPORT delegateGrammar+)
;

```

```

delegateGrammar
@init
{
enterDelegateGrammar($start);
}
@after {
exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;

```

```

tokensSpec
@init {
enterTokensSpec($start);
}
@after {
exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

```

```

tokenSpec
@init {
enterTokenSpec($start);
}
@after {

```

```
exitTokenSpec($start);
}
: ID {defineToken($ID);}
;
```

```
channelsSpec
@init {
enterChannelsSpec($start);
}
@after {
exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;
```

```
channelSpec
@init {
enterChannelSpec($start);
}
@after {
exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;
```

```
action
@init {
enterAction($start);
}
@after {
exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;
```

```
rules
@init {
enterRules($start);
}
@after {
exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;
```

```
mode
@init {
enterMode($start);
}
```

```

}
@after {
    exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
    enterLexerRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    currentOuterAltNumber=0;
}
@after {
    exitLexerRule($start);
}
: ^( RULE TOKEN_REF
    {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
    (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
    {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
    lexerRuleBlock
    {
        finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
        currentRuleName=null; currentRuleAST=null;
    }
    )
;

rule
@init {
    enterRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
    currentOuterAltNumber=0;
}
@after {
    exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
currentRuleAST=$RULE;}
    (^ (RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+)?
    ARG_ACTION?
    ret=ruleReturns?
    thr=throwsSpec?
    loc=locals?
    ( opts=optionsSpec
    | a=ruleAction {actions.add($a.start);}
    )*)
;

```

```

    {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
      $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
      $thr.start, $opts.start,
      $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
      actions, (GrammarAST)input.LT(1));}
  ruleBlock exceptionGroup
  {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
@init {
  enterExceptionGroup($start);
}
@after {
  exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
  enterExceptionHandler($start);
}
@after {
  exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
(ActionAST)$ACTION);}
;

finallyClause
@init {
  enterFinallyClause($start);
}
@after {
  exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}

```

```
: ^(LOCALS ARG_ACTION)
;

ruleReturns
@init {
  enterRuleReturns($start);
}
@after {
  exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;
```

```
throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}
: ^(THROWS ID+)
;
```

```
ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

```
ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;
```

```
lexerRuleBlock
@init {
```

```

enterLexerRuleBlock($start);
}
@after {
exitLexerRuleBlock($start);
}
: ^( BLOCK
( {
currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}
lexerOuterAlternative
)+
)
;

```

```

ruleBlock
@init {
enterRuleBlock($start);
}
@after {
exitRuleBlock($start);
}
: ^( BLOCK
( {
currentOuterAltRoot = (GrammarAST)input.LT(1);
currentOuterAltNumber++;
}
outerAlternative
)+
)
;

```

```

lexerOuterAlternative
@init {
enterLexerOuterAlternative((AltAST)$start);
discoverOuterAlt((AltAST)$start);
}
@after {
finishOuterAlt((AltAST)$start);
exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

```

```

outerAlternative
@init {
enterOuterAlternative((AltAST)$start);

```



```

discoverOuterAlt((AltAST)$start);
}
@after {
finishOuterAlt((AltAST)$start);
exitOuterAlternative((AltAST)$start);
}
: alternative
;

```

```

lexerAlternative
@init {
enterLexerAlternative($start);
}
@after {
exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
| lexerElements
;

```

```

lexerElements
@init {
enterLexerElements($start);
}
@after {
exitLexerElements($start);
}
: ^(ALT
lexerElement+)
;

```

```

lexerElement
@init {
enterLexerElement($start);
}
@after {
exitLexerElement($start);
}
: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

```

```
labeledLexerElement
@init {
  enterLabeledLexerElement($start);
}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;
```

```
lexerBlock
@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;
```

```
lexerAtom
@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;
```

```
actionElement
@init {
  enterActionElement($start);
}
@after {
  {
  exitActionElement($start);
}
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
```

```
| ^(SEMPRED elementOptions)
```

```
;
```

```
alternative
```

```
@init {
```

```
enterAlternative((AltAST)$start);
```

```
discoverAlt((AltAST)$start);
```

```
}
```

```
@after {
```

```
finishAlt((AltAST)$start);
```

```
exitAlternative((AltAST)$start);
```

```
}
```

```
: ^(ALT elementOptions? element+)
```

```
| ^(ALT elementOptions? EPSILON)
```

```
;
```

```
lexerCommand
```

```
@init {
```

```
enterLexerCommand($start);
```

```
}
```

```
@after {
```

```
exitLexerCommand($start);
```

```
}
```

```
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
```

```
{lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
```

```
| ID
```

```
{lexerCommand(currentOuterAltNumber, $ID);}
```

```
;
```

```
lexerCommandExpr
```

```
@init {
```

```
enterLexerCommandExpr($start);
```

```
}
```

```
@after {
```

```
exitLexerCommandExpr($start);
```

```
}
```

```
: ID
```

```
| INT
```

```
;
```

```
element
```

```
@init {
```

```
enterElement($start);
```

```
}
```

```
@after {
```

```
exitElement($start);
```

```
}
```

```
: labeledElement
```

```

| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION
elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

| ^(NOT blockSet)
| ^(NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
: atom
| ^(NOT blockSet)
| ^(NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
: ^(blockSuffix block)
| block
;

lexerSubrule
@init {
enterLexerSubrule($start);

```

```
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;
```

```
blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;
```

```
ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;
```

```
atom
@init {
  enterAtom($start);
}
@after
{
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) { wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;
```

```
blockSet
```

```

@init {
  enterBlockSet($start);
}
@after {
  exitBlockSet($start);
}
: ^(SET setElement+)
;

```

setElement

```

@init {
  enterSetElement($start);
}
@after {
  exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

```

block

```

@init {
  enterBlock($start);
}
@after {
  exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

```

ruleref

```

@init {
  enterRuleref($start);
}
@after {
  exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
}

```

```

    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
  }
;

range
@init {
  enterRange($start);
}
@after {
  exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
  enterTerminal($start);
}
@after {
  exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
  enterElementOptions($start);
}
@after {
  exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
  enterElementOption($start);
}
@after
{
  exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}

```

```
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;
```

Found in path(s):

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/parse/GrammarTreeVisitor.g
```

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*/
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Found in path(s):

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
```

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
```

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
```


*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/gui/PostScriptDocument.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/misc/Utils.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/automata/LexerATNFactory.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/gui/TreeTextProvider.java
*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/misc/CharSupport.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/Target.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/AltBlock.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/automata/ATNPrinter.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/v3TreeGrammarException.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/Action.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/ErrorType.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/misc/OrderedHashMap.java

*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/Rule.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/semantics/SymbolChecks.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/AttributeDict.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/ast/NotAST.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/automata/ATNOptimizer.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/StarBlock.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/CodeGenPipeline.java
*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/automata/ATNVisitor.java

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
 *
 /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/ParserFactory.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/Sync.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/Parser.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/semantics/SemanticPipeline.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/Grammar.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
 *
 /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/AddToLabelList.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/tool/ast/RuleAST.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/ArgAction.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/semantics/AttributeChecks.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/ActionTranslator.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
 *
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* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/ast/RuleElementAST.java


```

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/LexerFactory.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/misc/Graph.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/ANTLRMessage.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/semantics/SymbolCollector.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/model/MatchSet.java
*
/opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/OutputModelController.java
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/ast/GrammarAST.java
No license file was found, but licenses were detected in source scan.

```

```

/*
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*/

```
// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from
// this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ } sections
//    in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
```

```

* A3Lexer.g (this file)
*     A3Parser.g
*     A3Verify.g (derived from A3Walker.g)
* assign.types.g
* define.g
* buildnfa.g
* antlr.print.g (optional)
* codegen.g
*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

```

```

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care
// about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

```

```

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

```

```

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

```

```

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//

```

```
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }
```

```
// Include the copyright in this
source and also the generated source
//
@lexer::header {
/*
[The "BSD licence"]
Copyright (c) 2005-2009 Terence Parr
All rights reserved.
```

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```
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}
```

```
@members {
public static final int COMMENTS_CHANNEL = 2;

public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;

public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```

/** scan backwards from current point in this.tokens list
 * looking for the start of the rule or subrule.
 * Return token or null if for some reason
we can't find the start.
 */
public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
    int i = tokens.index();
    int n = tokens.size();
    if ( i>=n ) i = n-1; // seems index == n as we lex
    while ( i>=0 && i<n ) {
        int ttype = tokens.get(i).getType();
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
            return tokens.get(i);
        }
        i--;
    }
    return null;
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

    // Record the start line and offsets
    as if we need to report an
    // unterminated comment, then we want to show the start of the comment
    // we think is broken, not the end, where people will have to try and work
    // it out themselves.
    //
    int startLine = $line;
    int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
  // or something silly.

```

```

//
'/' // Comment introducer

(
  // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  '/'
  (
    (' $ANTLR')=> ' $ANTLR' SRC
    | ~(NLCHARS)*
  )

| // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidentally
  // recognizing a comment /**/ as a documentation
comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
    | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
  )*
  (
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of
the unterminated multi-line comment
    //
    /**/

    | // Unterminated comment!

```

```

        //
        {
            // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
        }
    )

|// There was nothing that made sense following the opening '/' and so
|// we issue an error regarding the malformed comment
|//
|//
|// TODO: Insert error message relative to comment start
|//
|//
|//
|// We do not wish to pass the comments in to the parser. If you are
|// writing a formatter then you will want to preserve the comments off
|// channel, but could just skip and save token space if not.
|//
|//
|// $channel=COMMENTS_CHANNEL;
|//
|//
;

```

ARG_OR_CHARSET

```

options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
    setText(t);
}
;

```

fragment

LEXER_CHAR_SET

```

: '['
( '\\ ~('\r'\n')
| ~('\r'\n'\\'']')
)*
']'
;

```

// -----

// Argument specs

```

//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[\']')
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action
// code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

```



```

// -----
// Action structure
//
// Many language targets use { } as block delimiters and so we
// must recursively match { } delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation
// in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match { }.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will
// be able to at least report
an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

| // What appears to be a literal

```

```

//
ACTION_CHAR_LITERAL

|// We have assumed that the target language has C/Java
// type comments.
//
COMMENT

|// What appears to be a literal
//
ACTION_STRING_LITERAL

|// What appears to be an escape sequence
//
ACTION_ESC

|// Some other single character that is not
// handled above
//
~(\\|\"|'|{|})

)*

(
// Correctly balanced closing brace
//
}'

|// Looks like have an imbalanced { } block, report
// with respect to the opening brace.
//
{
// TODO: Report imbalanced { }
System.out.println("Block starting at line " + startLine
+ " offset " + (offset+1) + " contains imbalanced { } or is missing a }");
}
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same { } delimiters.

```

```

//
OPTIONS   : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS   : 'channels' WSNLCHARS* '{' ;

IMPORT    : 'import'      ;
FRAGMENT  : 'fragment'   ;
LEXER     : 'lexer'      ;
PARSER    : 'parser'     ;
GRAMMAR   : 'grammar'    ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected'  ;
PUBLIC    : 'public'     ;
PRIVATE   : 'private'    ;
RETURNS   : 'returns'    ;
LOCALS    : 'locals'     ;
THROWS    : 'throws'     ;
CATCH     : 'catch'      ;
FINALLY   : 'finally'    ;
MODE      : 'mode'       ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON     : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF ) isLexerRule = false;
            else
                if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
        }
    }
;
COLONCOLON : '::'      ;
COMMA     : ','       ;
SEMI      : ';'       ;
LPAREN    : '('       ;

```

```

RPAREN  : ')'      ;
RARROW  : '>'      ;
LT      : '<'      ;
GT      : '>'      ;
ASSIGN  : '='      ;
QUESTION : '?'     ;
SYNPRED : '=>'

{
    Token t = new CommonToken(input, state.type, state.channel,
                              state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;

STAR    : '*'      ;
PLUS    : '+'      ;
PLUS_ASSIGN : '+='  ;
OR      : '|'      ;
DOLLAR  : '$'      ;
DOT     : '.'      ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE   : '..'     ;
AT      : '@'      ;
POUND   : '#'      ;
NOT     : '~'     ;
RBRACE  : '}'      ;

```

/** Allow unicode rule/token names */

```

ID : a=NameStartChar NameChar*
{
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
}
;

```

fragment

```

NameChar : NameStartChar
| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

fragment

NameStartChar

```
: 'A'..'Z' | 'a'..'z'  
| '\u00C0'..'u00D6'  
| '\u00D8'..'u00F6'  
| '\u00F8'..'u02FF'  
  
| '\u0370'..'u037D'  
| '\u037F'..'u1FFF'  
| '\u200C'..'u200D'  
| '\u2070'..'u218F'  
| '\u2C00'..'u2FEF'  
| '\u3001'..'uD7FF'  
| '\uF900'..'uFDCF'  
| '\uFDF0'..'uFEFE'  
| '\uFF00'..'uFFFD'  
; // ignores | [\u10000-\uEFFFF] ;
```

// -----

// Literals embedded in actions

//

// Note that we have made the assumption that the language used within

// actions uses the fairly standard " and ' delimiters for literals and

// that within these literals, characters are escaped using the \ character.

// There are some languages which do not conform to this in all cases, such

// as by using /string/ and so on. We will have to deal with such cases if

// if they come up in targets.

//

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal characters. Within these, we do

// not want to inadvertently match

things like '}' and so we eat them

// specifically. While this rule is called CHAR it allows for the fact that

// some languages may use/allow ' as the string delimiter.

//

fragment

ACTION_CHAR_LITERAL

```
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\"
```

```
;
```

// Within actions, or other structures that are not part of the ANTLR

// syntax, we may encounter literal strings. Within these, we do

// not want to inadvertently match things like '}' and so we eat them

// specifically.

//

fragment

ACTION_STRING_LITERAL

```
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\"
```

```

;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\' .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source spec
//
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
    //
}
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
: '\" ( ( ESC_SEQ | ~(\"|\"'|\"r'|\"n') ) ) *
( '\"
| // Unterminated string literal

```

```

    {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
)
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\'
(
    // The standard escaped character set such as tab, newline,
    // etc.
    //
    'b'|'t'|'n'|'f'|'r'|'\"'|'\''|'\\'

| // A Java style Unicode escape sequence
//
    UNICODE_ESC

| // An illegal escape sequence
//
    {
        Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
        t.setText(t.getText());
        t.setLine(input.getLine());

        t.setCharPositionInLine(input.getCharPositionInLine()-1);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
    }
)
;

fragment
UNICODE_ESC

@init {

```

```

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
(
(
HEX_DIGIT { hCount++; }
(
HEX_DIGIT { hCount++; }
(
HEX_DIGIT { hCount++; }
(
// Four valid hex digits, we are good
//
HEX_DIGIT { hCount++; }

|// Three valid digits
)

|// Two valid digits
)

|// One valid digit
)
)
|// No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
if (hCount != 4) {
Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
t.setText(t.getText());
t.setLine(input.getLine());
}
}

```



```

        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
    }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ' '
    | '\t'
    | '\r'
    | '\n'
    | '\f'
)+
{ $channel=HIDDEN; }
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

```

```

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  : '\uFEFF' {skip();}
  ;

// -----
// Illegal Character
//
// This is an
// illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
  {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
  }
  ;

```

Found in path(s):

* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ANTLRLexer.g

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* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
 jar/org/antlr/v4/codegen/target/CSharpTarget.java
 * /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
 jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java

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*/

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {  
package org.antlr.v4.parse;  
import org.antlr.v4.tool.*;  
import org.antlr.v4.tool.ast.*;  
}
```

```
@members {  
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {  
    this(input, new RecognizerSharedState());  
    this.delegate = delegate;  
}
```

```
/** force filtering (and  
return tokens). triggers all above actions. */  
public List<Token> getActionTokens() {  
    List<Token> chunks = new ArrayList<Token>();  
    Token t = nextToken();  
    while ( t.getType()!=Token.EOF ) {  
        chunks.add(t);  
        t = nextToken();  
    }  
    return chunks;  
}
```

```
private boolean isIDStartChar(int c) {  
    return c == '_' || Character.isLetter(c);  
}  
}
```

```

// ignore comments right away

COMMENT
: /*' ( options {greedy=false;} : . )* */' {delegate.text($text);}
;

LINE_COMMENT
: //' ~(\n|\r)* \r? \n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$ x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$ x=ID ':' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
: '$ x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
delegate.setAttr($text, $x, $expr);
}
;

ATTR
: '$
x=ID {delegate.attr($text, $x);}
;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~(\\| '$) {buf.append((char)$c);}
| '\\$' {buf.append('$);}
| '\\ c=~('$) {buf.append(\\).append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

```

fragment

```
ID : ('a..'z'|'A..'Z'|'_') ('a..'z'|'A..'Z'|'0'..'9'|'_')*
```

;

```
/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
```

fragment

```
ATTR_VALUE_EXPR
```

```
: ~'=' (~';')*
```

;

fragment

```
WS : (' '\t' '\n' '\r')+;
```

Found in path(s):

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-jar/org/antlr/v4/parse/ActionSplitter.g
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```
*/
```

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 */
```

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
```

```

<edges;
  separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; }
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set
of transitions after the first one. !>
    <if(rest(transitions))>
      {
        <! Label on the left side of the record node. !>
        <label>
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>}; separator="|">}}
      <else>
        <label>
      <endif>
    "
    <if(rest(transitions))>
      , shape=record, fixedsize=false
    <else>
      , shape=circle, fixedsize=true, width=.55
    <endif>
    , peripheries=1];
%>

```



```
stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsized=false<else>shape=doublecircle, fixedsized=true,
width=.6<endif>];
>>
```

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```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/tool/templates/dot/graphs.stg
```

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```

```
*/
```

```
tree grammar SourceGenTriggers;
```

```
options {
```

```
language = Java;
```

```
tokenVocab = ANTLRParser;
```

```
ASTLabelType = GrammarAST;
```

```
}
```

```

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import
java.util.HashMap;
}

```

```

@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
this(input);
this.controller = controller;
}
}

```

```

dummy : block[null, null] ;

```

```

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
Somos = DefaultOutputModelFactory.list(choice);
}
}
;

```

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

```

@init {
boolean outerMost = inContext("RULE BLOCK");
}
@after {

```

```

    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
// set alt if outer ALT only (the only ones with alt field set to Alternative object)
AltAST altAST = (AltAST)retval.start;
if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
List<SrcOp> elems = new ArrayList<SrcOp>();
// TODO: shouldn't we pass $start to controller.alternative()?
$altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
$altCodeBlock.ops = $ops = elems;
controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
    { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
;

element returns [List<? extends SrcOp> omos]
: labeledElement { $omos = $labeledElement.omos; }
| atom[null,false] { $omos = $atom.omos; }
| subrule { $omos = $subrule.omos; }
| ACTION { $omos = controller.action((ActionAST)$ACTION); }
| SEMPRED { $omos = controller.sempred((ActionAST)$SEMPRED); }
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); }
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos; }
| ^(PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; }
| ^(ASSIGN ID block[$ID,null] ) { $omos = $block.omos; }
| ^(PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos; }
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
$omos = $block.omos;
}
| ( ^(op=CLOSURE

```

```

b=block[null,null])
|^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
SrcOp blk = $b.omos.get(0);
CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
alt.addOp(blk);
alts.add(alt);
SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
    hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
    $somos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]    {$somos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
:^(SET atom[label,invert]+) {$somos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
|^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
:^(NOT a=atom[$label,
true]) {$somos = $a.omos;}
| range[label]    {$somos = $range.omos;}
|^(DOT ID terminal[$label])
|^(DOT ID ruleref[$label])
|^(WILDCARD .)    {$somos = controller.wildcard($WILDCARD, $label);}
| WILDCARD        {$somos = controller.wildcard($WILDCARD, $label);}
| terminal[label]  {$somos = $terminal.omos;}
| ruleref[label]  {$somos = $ruleref.omos;}
| blockSet[$label, invert] {$somos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
:^(RULE_REF ARG_ACTION? elementOptions?) {$somos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

```

```
range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;
```

```
terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF,
$label, $ARG_ACTION);}
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;
```

```
elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;
```

```
elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

```
* /opt/cola/permits/1315088987_1650865650.6/0/antlr4-4-5-1-1-sources-3-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
```

1.397 goleveldb 1.0.0

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1.398 gotenv 1.2.0

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1.405 sse-connector 1.8.37

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```

```
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1.410 google-go-cmp 0.5.8

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1.411 futures 3.8

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1.412 slimshady-cpd 0.1.4-0.20210414171612-aefe45dae52e

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Found in path(s):

```
* /opt/cola/permits/1337394203_1715294019.6766174/0/cpd-main-1-zip/cpd-main/cmd/gradlew.bat
```

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```

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#

#####
##
## Gradle start up script for UN*X
##
#####

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while
[ -h "$PRG" ] ; do
  ls=`ls -ld "$PRG"`
  link=`expr "$ls" : '.*-> \(.*\)${'`
  if expr "$link" : '/.*' > /dev/null; then
    PRG="$link"
  else
    PRG=`dirname "$PRG""/$link"
  fi
done
SAVED="`pwd`"
cd "`dirname \"$PRG\"`/" >/dev/null
APP_HOME="`pwd -P`"
cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"`

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this
script.

```



```

DEFAULT_JVM_OPTS="-Xmx64m" "-Xms64m"

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD="maximum"

warn () {
    echo "$*"
}

die () {
    echo
    echo "$*"
    echo
    exit 1
}

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case "`uname`" in
    CYGWIN* )
        cygwin=true
        ;;
    Darwin* )
        darwin=true
        ;;
    MINGW* )
        msys=true
        ;;
    NONSTOP* )
        nonstop=true
        ;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar

# Determine
the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
    if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
        # IBM's JDK on AIX uses strange locations for the executables
        JAVACMD="$JAVA_HOME/jre/sh/java"
    else
        JAVACMD="$JAVA_HOME/bin/java"
    fi
fi

```

```
if [ ! -x "$JAVACMD" ] ; then
    die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
```

Please set the JAVA_HOME variable in your environment to match the location of your Java installation."

```
fi
else
    JAVACMD="java"
    which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in
your PATH.
```

Please set the JAVA_HOME variable in your environment to match the location of your Java installation."

```
fi

# Increase the maximum file descriptors if we can.
if [ "$cygwin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
    MAX_FD_LIMIT=`ulimit -H -n`
    if [ $? -eq 0 ] ; then
        if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max"
    ] ; then
            MAX_FD="$MAX_FD_LIMIT"
        fi
        ulimit -n $MAX_FD
        if [ $? -ne 0 ] ; then
            warn "Could not set maximum file descriptor limit: $MAX_FD"
        fi
    else
        warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
    fi
fi
```

```
# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
```

```
    GRADLE_OPTS="$GRADLE_OPTS \-Xdock:name=$APP_NAME\ " \-
Xdock:icon=$APP_HOME/media/gradle.icns\ ""
fi
```

```
# For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ] ; then
```

```
    APP_HOME=`cygpath --path --mixed "$APP_HOME"`
    CLASSPATH=`cygpath --path --mixed "$CLASSPATH"
```

```
    JAVACMD=`cygpath --unix "$JAVACMD"
```

```
# We build the pattern for arguments to be converted via cygpath
```

```
ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
SEP=""
```

```

for dir in $ROOTDIRSRAW ; do
    ROOTDIRS="$ROOTDIRS$SEP$dir"
    SEP="|"
done
OURCYGPATTERN="^(($ROOTDIRS))"
# Add a user-defined pattern to the cygpath arguments
if [ "$GRADLE_CYGPATTERN" != "" ] ; then
    OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
fi
# Now convert the arguments - kludge to limit ourselves to /bin/sh
i=0
for arg in "$@" ; do
    CHECK=`echo "$arg"|egrep -c "$OURCYGPATTERN" -`
    CHECK2=`echo "$arg"|egrep -c "^-"`           ### Determine if an option

    if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then        ### Added a condition
        eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"`
    else
        eval `echo args$i`="\\"$arg\\"
    fi
    i=`expr $i + 1`
done
case $i in
  0) set -- ;;
  1) set -- "$args0" ;;
  2) set -- "$args0" "$args1" ;;
  3) set -- "$args0" "$args1" "$args2" ;;
  4) set -- "$args0" "$args1" "$args2" "$args3" ;;
  5) set -- "$args0" "$args1" "$args2"
"$args3" "$args4" ;;
  6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
  7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
  8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
  9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" "$args8" ;;
esac
fi

# Escape application args
save () {
    for i do printf %s\\n "$i" | sed "s/'/\\'/g;1s/^/';$s\\$/' \\'/"; done
    echo " "
}
APP_ARGS=`save "$@"`

# Collect all arguments for the java command, following the shell quoting and substitution rules
eval set -- $DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS "\-
Dorg.gradle.appname=$APP_BASE_NAME\\" -classpath "\$CLASSPATH\\"
org.gradle.wrapper.GradleWrapperMain "$APP_ARGS"

```

```
exec "$JAVACMD" "$@"
```

Found in path(s):

* /opt/cola/permits/1337394203_1715294019.6766174/0/cpd-main-1-zip/cpd-main/cmd/gradlew

1.413 looplab-fsm 0.3.0

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1.414 ulikunitz-xz 0.5.6

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package main

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```

```
package main
```

```
import (\n    "bufio"\n    "bytes"\n    "flag"\n    "fmt"\n    "io"\n    "log"\n    "os"\n    "path/filepath"\n    "strings"\n)
```

```
const crUsageString = `xb copyright [options] <path>....`
```

The xb copyright command adds a copyright remark to all go files below path.

```
-h prints this message and exits
```

```
\nfunc crUsage(w io.Writer) {\n    fmt.Fprint(w, crUsageString)\n}
```

```
const copyrightText = `\nCopyright 2014-2019 Ulrich Kunitz. All rights reserved.\nUse of this source code is governed by a BSD-style\nlicense that can be found in the LICENSE file.\n`
```

```

func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintln(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err
    = scanner.Err(); err != nil {
        panic(err)
    }
    if _, err = fmt.Fprintln(buf); err != nil {
        panic(err)
    }
    return buf.String()
}

```

```

var goCopyright = goComment(copyrightText)

```

```

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }
}

```

```

}()
out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
    txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]

```

```

log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
log.SetFlags(0)

flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

help := flag.Bool("h", false, "")

flag.Parse()

if *help {
    crUsage(os.Stdout)
    os.Exit(0)
}

for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
    if err = filepath.Walk(path, walkCopyrights); err != nil {
        log.Fatalf("%s error %s", path, err)
    }
}
}

```

1.415 x-sync 0.0.0-20220601150217-0de741cfad7f

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1.416 prometheus-common 0.37.0

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1.418 gosqlite 1.14.15

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1.419 packaging 16.8

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1.420 io-like 0.3.1

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1.421 aws-aws-lambda-go 1.22.0

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1.422 zlib 1.2.11.dfsg-1+deb10u2

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License.

Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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The

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```
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1.425 sqlite 3.39.2

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```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)  
  
// Checks out the specified license. If the account that created the license is the  
// same that is performing the check out, you must specify the account as the  
// beneficiary.  
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))  
(*CheckoutLicenseOutput, error) {  
    if params == nil {  
        params = &CheckoutLicenseInput{}  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,  
c.addOperationCheckoutLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
  
    out := result.(*CheckoutLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}  
  
type
```

```

CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return
    }
    err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {

```

```

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

```

}

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Version 3, 29 June 2007

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```
# COPYING.other          -*- org -*-  
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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.428 prometheus-client 1.13.0

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1.431 x-sys 0.0.0-20220908164124-27713097b956

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```
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@c ispell-local-pdict: "ispell-dict"
@c End:
```

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1.434 prometheus-client-model 0.2.0

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```
package licensemanager
```

```
import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Checks out the specified license.
```

```

func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive
    identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

```



```

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
}

```

```
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return
nil
}
```

```
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}
```

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```
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Version 3, 29 June 2007

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The

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Upstream Authors: Fabio Fiorina <fiorinaf@gnutls.org>
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1.444 libunistring 0.9.10-1

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Upstream-Contact: Bruno Haible <bruno@clisp.org>

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1.445 libpkit 0.23.15-2+deb10u1

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trust/oid.c trust/oid.h

trust/pem.c trust/pem.h common/argv.c common/argv.h common/pkcs11x.h

common/pkcs11i.h

common/test-constants.c common/test-hash.c

p11-kit/pkcs11.h p11-kit/test-managed.c

trust/builder.c trust/builder.h trust/digest.h trust/module.c

trust/module.h trust/module-init.c trust/pem.c

trust/pem.h trust/oid.c

trust/oid.h trust/parser.h

trust/session.c trust/session.h trust/frob-cert.c

trust/frob-eku.c trust/frob-token.c

trust/test-digest.c trust/test-enumerate.c

trust/test-index.c trust/test-module.c trust/test-oid.c

trust/test-parser.c trust/test-pem.c trust/test-token.c

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trust/enumerate.c trust/enumerate.h trust/extract.c
trust/extract-cer.c trust/extract.h
trust/extract-openssl.c trust/extract-pem.c trust/index.c
trust/index.h trust/list.c trust/list.h trust/persist.c
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1.448 grep 3.3-1

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1.450 libffi 3.2.1-9

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1.451 libcap-ng 0.7.9-2

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1.452 dash 0.5.10.2-5

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1.453 findutils 4.6.0+git+20190209-2

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.

Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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

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This is Debian GNU/Linux's prepackaged version of the rlfe program. This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:
<ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz>.

Author: Per Bothner

Copyright:

```
/* A front-end using readline to "cook" input lines for Kawa.  
*  
* Copyright (C) 1999 Per Bothner  
*  
* This front-end program is free software; you can redistribute it and/or  
* modify it under the terms of the GNU General Public License as published  
* by the Free Software Foundation; either version 2, or (at your option)  
* any later version.  
*  
* Some code from Johnson & Troan: "Linux Application Development"  
* (Addison-Wesley, 1998) was used directly or for inspiration.  
*/
```

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1.455 argon2 0~20171227-0.2

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Argon2 reference source code package - reference C implementations

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Daniel Dinu, Dmitry Khovratovich, Jean-Philippe Aumasson, and Samuel Neves

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1.456 ruby-net-telnet 0.1.1-2

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1.457 aws-aws-sdk-go-v2 1.11.7

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```
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// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
    "context"
```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive
    identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err
    != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return
nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutLicense",
    }
}

```

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1.459 google-golang-org-genproto 0.0.0-20200825200019-8632dd797987

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1.460 ruby-test-unit 3.3.5-1

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

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1.461 ruby-power-assert 1.1.7-1

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1.462 ruby-xmlrpc 0.3.0-2

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1.463 ruby-minitest 5.13.0-1

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= minitest/{test,spec,mock,benchmark}

home :: <https://github.com/seattlerb/minitest>

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rdoc :: <http://docs.seattlerb.org/minitest>

vim :: <https://github.com/sunaku/vim-ruby-minitest>

emacs:: <https://github.com/arthurnn/minitest-emacs>

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *very* readable / understandable

compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/test and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr
Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

- * minitest/autorun - the easy and explicit way to run all your tests.
- * minitest/test - a very fast, simple, and clean test system.
- * minitest/spec - a very fast, simple, and clean spec system.
- * minitest/mock - a simple and clean mock/stub system.
- * minitest/benchmark - an awesome way to assert your algorithm's performance.
- * minitest/pride - show your pride in testing!
- * Incredibly small and fast runner, but no bells and whistles.
- * Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

=== Unit tests

Define your tests as methods beginning with +test_+.

```
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end
end
```

```
def test_that_will_be_skipped
  skip "test this later"
end
end
```

=== Specs

```
require "minitest/autorun"
```

```
describe Meme do
```

```
  before do
```

```
    @meme = Meme.new
```

```
  end
```

```
  describe "when asked about cheeseburgers" do
```

```
    it "must respond positively" do
```

```
      _(@meme.i_can_has_cheezburger?).must_equal "OHAI!"
```

```
    end
```

```
  end
```

```
  describe "when asked about blending possibilities" do
```

```
    it "won't say no"
```

```
  do
```

```
    _(@meme.will_it_blend?).wont_match /^no/i
```

```
  end
```

```
end
```

```
end
```

For matchers support check out:

* <https://github.com/wojtekmach/minitest-matchers>

* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

```
# optionally run benchmarks, good for CI-only work!
```

```
require "minitest/benchmark" if ENV["BENCH"]
```

```
class TestMeme < Minitest::Benchmark
```

```
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
```

```
  def bench_my_algorithm
```

```
    assert_performance_linear 0.9999 do |n| # n is a range value
```

```
      @obj.my_algorithm(n)
```

```
    end
```

```
  end
```

```
end
```

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match `Bench(mark)?`.

```
describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do

        @obj.my_algorithm(n)
      end
    end
  end
end
```

outputs something like:

```
# Running benchmarks:

TestBlah 100 1000 10000
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932
```

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at <http://www.martinfowler.com/bliki/TestDouble.html>:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

```
class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", "_") + "?"
    @meme.__send__(method)
  end
end
```

```

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated
question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end
end

```

==== Multi-threading and Mocks

Minitest mocks do not support multi-threading. If it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

```

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at <http://www.martinfowler.com/bliki/TestDouble.html>:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```

def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

```

```

Time.stub :now, Time.at(0) do # stub goes away once the block is done
  assert obj_under_test.stale?

```



```
end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```
def obj_under_test.fake_method
  ...
end
```

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb
Run options: --seed 37685
```

```
# Running:
```

```
..... (etc)
```

```
Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.
```

```
155 runs, 317 assertions, 0 failures, 0 errors, 0 skips
```

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `+-help+`:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
```

minitest options:

-h, --help	Display this help.
-s, --seed SEED	Sets random seed. Also via env. Eg: SEED=n rake
-v, --verbose	Verbose. Show progress processing files.
-n, --name PATTERN	Filter run on /regexp/ or string.
-e, --exclude PATTERN	Exclude /regexp/ or string from run.

Known extensions: pride, autotest

-p, --pride	Pride. Show your testing pride!
-a, --autotest	Connect to autotest server.

You can set up a rake task to run all your tests by adding this to your Rakefile:

```
require "rake/testtask"
```

```

Rake::TestTask.new(:test) do |t|
  t.libs << "test"
  t.libs << "lib"
  t.test_files = FileList["test/**/test_*.rb"]
end

task :default
=> :test

```

== Writing Extensions

To define a plugin, add a file named `minitest/XXX_plugin.rb` to your project/gem. That file must be discoverable via ruby's `LOAD_PATH` (via `rubygems` or otherwise). Minitest will find and require that file using `Gem.find_files`. It will then try to call `+plugin_XXX_init+` during startup. The option processor will also try to call `+plugin_XXX_options+` passing the `OptionParser` instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

```

# minitest/bogus_plugin.rb

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

```

=== Adding custom reporters

Minitest

uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the `init_plugins` phase. As we saw in `+plugin_bogus_init+` above, you simply add your reporter instance to the composite via `<tt><<</tt>`.

`+AbstractReporter+` defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

`start` `::` Called when the run has started.

record :: Called for each result, passed or otherwise.
report :: Called at the end of the run.
passed? :: Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

```
# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results
    end

    << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end
  end

  # code from above...
end
```

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

```
class Worker < SimpleDelegator
  def work
  end
end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
```

```
  _(@worker).must_respond_to :work
end
end
```

outputs a failure:

```
1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.
```

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits +method_missing+ and delegates down to the +Object.new+ instance. That object doesn't respond to work so the test fails.

You can bypass `SimpleDelegate#method_missing` by extending the worker with `Minitest::Expectations`. You can either do that in your setup at the instance level, like:

```
before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end
```

or you can extend the Worker class (within the test file!), like:

```
class Worker
  include ::Minitest::Expectations
end
```

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```
module UsefulStuff
  def useful_method
    # ...
  end
end
```

```
describe Blah do
  include UsefulStuff
```

```
  def test_whatever
    # useful_method available here
  end
```

end

Remember, +describe+ simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

===

How to run code before a group of tests?

Use a constant with begin...end like this:

```
describe Blah do
  SETUP = begin
    # ... this runs once when describe Blah starts
  end
  # ...
end
```

This can be useful for expensive initializations or sharing state. Remember, this is just ruby code, so you need to make sure this technique and sharing state doesn't interfere with your tests.

=== Why am I seeing `uninitialized constant MiniTest::Test (NameError)`?

Are you running the test with Bundler (e.g. via `bundle exec`)? If so, in order to require minitest, you must first add the `gem 'minitest'` to your Gemfile and run +bundle+. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

- * arel
- * journey
- * mime-types
- * nokogiri
- * rails (active_support et al)
- * rake
- * rdoc
- * ...and of course, everything from seattle.rb...

== Developing Minitest:

Minitest requires {Hoe}[<https://rubygems.org/gems/hoer>].

===

Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform.

Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```
--- expected
+++ actual
@@ -1,2 +1,3 @@
# encoding: UTF-8
-"Expected /\w+/ to not match \"blah blah blah\"."
+"Expected /\w+/ to not match # encoding: UTF-8
+\"blah blah blah\"."
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the RUBYOPTS env variable to a value of '-Eutf-8'. Something like:

```
RUBYOPTS='-Eutf-8' ruby -e 'puts Encoding.default_external'
```

Check your OS/shell documentation for the precise syntax (the above will not work on a basic Windows CMD prompt, look for the SET command).

Once

you've got it successfully outputting UTF-8, use the same setting when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

```
4) Failure:
TestMinitestUnitTestCase#test_assert_equal_different_long
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
Expected: "--- expected\n+++ actual\n@@ -1 +1 @@\n-
\"hahahahahahahahahahahahahahahahahahaha\"\n+\"blahblahblahblahblahblahblahblahlah\n\"
Actual: "Expected: \"hahahahahahahahahahahahahahahahahahaha\"\n Actual:
\"blahblahblahblahblahblahlahblahlah\n\""
```

5) Failure:

```
TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
[D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
```

Expected:

```
"No visible difference in the Hash#inspect output.\nYou should look at the implementation of #== on Hash or its
members.\n
```

```
{1=>#<Object:0xXXXXXX>}"
```

```
Actual: "Expected: {1=>#<Object:0x00000003ba0470>}\n Actual: {1=>#<Object:0x00000003ba0448>}"
```

If you use Cygwin or MSYS2 or similar there are packages that include a GNU diff for Windows. If you don't, you can download GNU diffutils from <http://gnuwin32.sourceforge.net/packages/diffutils.htm> (make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

```
diff.exe -v
```

There are multiple lines of output, the first should be something like:

```
diff (GNU diffutils) 2.8.1
```

If you are using PowerShell make sure you run diff.exe, not just diff, which will invoke the PowerShell built in function.

== Known Extensions:

capbara_minitest_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g.

```
<tt>page.must_have_content("Title")</tt>).
```

color_pound_spec_reporter :: Test names print Ruby Object types in color with your Minitest Spec style tests.

minispec-metadata :: Metadata for describe/it blocks & CLI tag filter.

E.g. <tt>it "requires JS driver", js: true do</tt> &

```
<tt>ruby test.rb --tag js</tt> runs tests tagged :js.
```

minispec-rails :: Minimal support to use Spec style in Rails 5+.

mini-apivore :: for swagger based automated API testing.

minitest-around :: Around block for minitest. An alternative to setup/teardown dance.

minitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.

minitest-autotest :: autotest is a continuous testing facility meant to be used during development.

minitest-bacon

:: minitest-bacon extends minitest with bacon-like functionality.

minitest-bang :: Adds support for RSpec-style let! to immediately
invoke let statements before each test.

minitest-bisect :: Helps you isolate and debug random test failures.

minitest-blink1_reporter :: Display test results with a Blink1.

minitest-capistrano :: Assertions and expectations for testing
Capistrano recipes.

minitest-capybara :: Capybara matchers support for minitest unit and
spec.

minitest-chef-handler :: Run Minitest suites as Chef report handlers

minitest-ci :: CI reporter plugin for Minitest.

minitest-context :: Defines contexts for code reuse in Minitest
specs that share common expectations.

minitest-debugger :: Wraps assert so failed
assertions drop into
the ruby debugger.

minitest-display :: Patches Minitest to allow for an easily
configurable output.

minitest-documentation :: Minimal documentation format inspired by rspec's.

minitest-doc_reporter :: Detailed output inspired by rspec's documentation
format.

minitest-emoji :: Print out emoji for your test passes, fails, and
skips.

minitest-english :: Semantically symmetric aliases for assertions and
expectations.

minitest-excludes :: Clean API for excluding certain tests you
don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files.
Differing results will
be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing
filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.

minitest-gcstats :: A minitest plugin that adds a report of the top
tests by number of objects allocated.

minitest-global_expectations:: Support minitest expectation methods for all objects

minitest-great_expectations :: Generally useful additions to minitest's
assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.

minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-have_tag :: Adds Minitest assertions to test for the existence of
HTML tags, including contents, within a provided string.

minitest-hooks ::
Around and before_all/after_all/around_all hooks

minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs

minitest-implicit-subject :: Implicit declaration of the test subject.

minitest-instrument :: Instrument ActiveSupport::Notifications when

test method is executed.

minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.

minitest-junit :: JUnit-style XML reporter for minitest.

minitest-keyword :: Use Minitest assertions with keyword arguments.

minitest-libnotify :: Test notifier for minitest via libnotify.

minitest-line :: Run test at line number.

minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.

minitest-macruby :: Provides extensions to minitest for macruby UI testing.

minitest-matchers :: Adds support for RSpec-style matchers to minitest.

minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.

minitest-metadata :: Annotate tests with metadata (key-value).

minitest-mock_expectations :: Provides method call assertions for minitest.

minitest-mongoid :: Mongoid assertion matchers for Minitest.

minitest-must_not :: Provides must_not as an alias for wont in Minitest.

minitest-optional_retry :: Automatically retry failed test to help with flakiness.

minitest-osx :: Reporter for the Mac OS X notification center.

minitest-parallel_fork :: Fork-based parallelization

minitest-parallel-db :: Run tests in parallel with a single database.

minitest-power_assert :: PowerAssert for Minitest.

minitest-predicates :: Adds support for .predicate? methods.

minitest-profile :: List the 10 slowest tests in your suite.

minitest-rails :: Minitest integration for Rails 3.x.

minitest-rails-capybara :: Capybara integration for Minitest::Rails.

minitest-reporters :: Create customizable Minitest output formats.

minitest-rg :: Colored red/green output for Minitest.

minitest-rspec_mocks :: Use RSpec Mocks with Minitest.

minitest-server :: minitest-server provides a client/server setup with your minitest process, allowing your test run to send its results directly to a handler.

minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.

minitest-shared_description :: Support for shared specs and shared spec subclasses

minitest-should_syntax :: RSpec-style <tt>x.should == y</tt> assertions for Minitest.

minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)

minitest-snail :: Print a list of tests that take too long

minitest-spec-context :: Provides rspec-ish context method to

Minitest::Spec.

minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. expect(sequences).to_include :celery_man).

minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.

minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.

minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.

minitest-stately :: Find leaking state between tests

minitest-stub_any_instance
:: Stub any instance of a method on the given class for the duration of a block.

minitest-stub-const :: Stub constants for the duration of a block.

minitest-tags :: Add tags for minitest.

minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.

minitest-vcv :: Automatic cassette management with Minitest::Spec and VCR.

minitest_owrapper :: Get tests results as a TestResult object.

minitest_should :: Shoulda style syntax for minitest test::unit.

minitest_tu_shim :: Bridges between test/unit and minitest.

mongoid-minitest :: Minitest matchers for Mongoid.

mutant-minitest :: Minitest integration for mutant.

pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.

rspec2minitest
:: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

- * assay-minitest
- * detroit-minitest
- * em-minitest-spec
- * flexmock-minitest
- * guard-minitest
- * guard-minitest-decisiv
- * minitest-activemodel
- * minitest-ar-assertions
- * minitest-capybara-unit
- * minitest-colorer
- * minitest-deluxe
- * minitest-extra-assertions
- * minitest-rails-shoulda
- * minitest-spec
- * minitest-spec-should

- * minitest-sugar
- * spork-minitest

== Minitest related goods

- * minitest/pride fabric: http://www.spoonflower.com/fabric/3928730-again-by-katie_allen

== REQUIREMENTS:

- * Ruby 2.3+. No magic is involved. I hope.

== INSTALL:

```
sudo gem install minitest
```

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

```
gem "minitest" # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"
```

```
# ... usual testing stuffs ...
```

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

== LICENSE:

(The MIT License)

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Found in path(s):

* /opt/cola/permits/1725418646_1687390982.4975965/0/ruby-minitest-5-13-0-orig-1-tar-gz/minitest-5.13.0/README.rdoc

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

for more details.

Found in path(s):

* /opt/cola/permits/1725418646_1687390982.4975965/0/ruby-minitest-5-13-0-orig-1-tar-gz/minitest-5.13.0/lib/minitest/benchmark.rb

1.464 shim 0.3

1.464.1 Available under license :

The project was initially based on [es6-shim by Axel Rauschmayer](<https://github.com/rauschma/es6-shim>).

Current maintainers are: [Paul Miller](<http://paulmillr.com>), [Jordan Harband](<https://github.com/ljharb>), and [C. Scott Ananian](<http://cscott.net>).

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1.465 debian-archive-keyring 2019.1+deb10u2

1.465.1 Available under license :

This is Debian GNU's GnuPG keyrings of archive keys.

This package was originally put together by Michael Vogt
<mvo@debian.org>

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based on the debian-keyring package maintained by James Troup

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1.466 aws-aws-sdk-go-v2 1.17.11

1.466.1 Available under license :

AWS SDK for Go

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CreateLicense

Initialize stack step

```

RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks out the specified license for offline use.
```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {

```

```

if params == nil {
    params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    //
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

```

```

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}

```



```

}
if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName:
"CheckoutBorrowLicense",
}
}

```

```

GetLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint

```

```

OperationSerializer

```

```

Build stack step

```

```

ClientRequestID

```

```

ComputeContentLength

```

```

UserAgent

```

```

RecursionDetection

```

```

Finalize stack step

```

ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever

```

OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type

```

```

CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if
err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckInLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a

```

```

// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

```



```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }
}

if
err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
}

```

```

if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.

```

```

Version *string

noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err
!= nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}

```

```

}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "GetLicense",
}
}
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (

```

```

"context"
"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - ProductSKU
// - Status
// - Fingerprint
//
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

```

```

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```



```

if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID:
ServiceID,
    OperationName: "ListReceivedLicenses",
}
}
DeleteLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"

```

```

"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout
    // type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //

```

```

// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

```

```

}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack,
options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = addRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack, options); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```

```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata
    = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace. Amazon Managed Grafana
    // workspaces no longer support Grafana Enterprise free trials.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    // A token from Grafana Labs that ties your Amazon Web Services account with a
    // Grafana Labs account. For more information, see Register with Grafana Labs
    (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-

```

```

register-enterprise)
// .
GrafanaToken *string

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}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func
(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}

```



```

}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

```

```

}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:
// - Beneficiary
// - ProductSKU
// - Fingerprint
// - Status
Filters []types.Filter

//
Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack,

```

```

options, "ListLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
}

```

```

if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "ListLicenses",
    }
}
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader

```

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions

Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns  
...func(*Options)) (*DisassociateLicenseOutput, error) {  
    if params == nil {  
        params = &DisassociateLicenseInput{ }  
    }  
}
```

```

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    //
    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
    if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
}

```

```

if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DisassociateLicense",
}
}

```

```

AssociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID

```

ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step


```

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //

```

```

// This member is required.
SourceVersion
*string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err !=
nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DeleteLicense",
}
}
}

```

1.467 systemd 241-7~deb10u10

1.467.1 Available under license :

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Files: *

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src/udev/udevadm-hwdb.c
src/udev/udev-builtin.c
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src/udev/udev-builtin-net_setup_link.c
src/udev/udev-builtin-hwdb.c
src/udev/udev-builtin-btrfs.c
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1.468 viper 1.7.1

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1.469 afero 1.1.2

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1.470 protobuf 1.28.1

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1.471 boringssl 0.0.0-20180917210259-b5e4a225e410

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1.474 golang 1.21.1

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* * *

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This package parses SPDX license expression strings describing license terms, like [package.json license strings](<https://docs.npmjs.com/files/package.json#license>), into consistently structured ECMAScript objects. The npm command-line interface depends on this package, as do many automatic license-audit tools.

In a nutshell:

```
```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
 // Licensed under the terms of the Two-Clause BSD License.
 parse('BSD-2-Clause'),
 {license: 'BSD-2-Clause'}
)

assert.throws(function () {
 // An invalid SPDX license expression.
 // Should be `Apache-2.0`.
 parse('Apache 2')
})

assert.deepEqual(
 // Dual licensed under LGPL 2.1 or a combination of the Three-Clause
 // BSD License and the MIT License.
 parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
 {
 left: {license: 'LGPL-2.1'},
 conjunction: 'or',
 right: {
 left: {license: 'BSD-3-Clause'},
```

```

 conjunction: 'and',
 right:
 {license: 'MIT'}
 }
}
)
...

```

The syntax comes from the [Software Package Data eXchange (SPDX)](<https://spdx.org/>), a standard from the [Linux Foundation](<https://www.linuxfoundation.org>) for shareable data about software package license terms. SPDX aims to make sharing and auditing license data easy, especially for users of open-source software.

The bulk of the SPDX standard describes syntax and semantics of XML metadata files. This package implements two lightweight, plain-text components of that larger standard:

1. The [license list](<https://spdx.org/licenses>), a mapping from specific string identifiers, like `Apache-2.0`, to standard form license texts and bolt-on license exceptions. The [spdx-license-ids](<https://www.npmjs.com/package/spdx-exceptions>) and [spdx-exceptions](<https://www.npmjs.com/package/spdx-license-ids>) packages implement the license list. They are development dependencies of this package.

Any license identifier from the license list is a valid license expression:

```

```javascript
require('spdx-license-ids').forEach(function (id) {
  assert.deepEqual(parse(id), {license: id})
})
...

```

So is any license identifier `WITH` a standardized license exception:

```

```javascript
require('spdx-license-ids').forEach(function (id) {
 require('spdx-exceptions').forEach(function (e) {
 assert.deepEqual(
 parse(id + ' WITH ' + e),
 {license: id, exception: e}
)
 })
})
...

```

2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```

```javascript

```

```

assert.deepEqual(
  // Licensed under a combination of the MIT License and a combination
  // of LGPL 2.1 (or a later version) and the Three-Clause BSD License.
  parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause)'),

  {
    left: {license: 'MIT'},
    conjunction: 'and',
    right: {
      left: {license: 'LGPL-2.1', plus: true},
      conjunction: 'and',
      right: {license: 'BSD-3-Clause'}
    }
  }
)
...

```

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// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell inexorable@lindenlab.com

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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spdx-license-ids

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Installation

Package managers

[npm](https://www.npmjs.com/)

```sh

```
npm install spdx-license-ids
```

```
```
```

```
#####
```

```
[bower](http://bower.io/)
```

```
```sh
```

```
bower install spdx-license-ids
```

```
```
```

```
##### [Duo](http://duojs.org/)
```

```
```javascript
```

```
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```

```
```
```

```
#### Standalone
```

```
[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)
```

```
### API
```

```
#### spdxLicenseIds
```

```
Type: `Array` of `String`
```

It returns an array of SPDX license identifiers.

```
```javascript
```

```
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ...]
```

```
```
```

```
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```

```
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```

```
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```

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```
````javascript
var correct = require('spdx-correct');
var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)
````
```

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1.479 fpm 1.11.0

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Jordan Sissel
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1.481 ruby-xz 0.2.3

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Basic liblzma-bindings for Ruby.

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1.482 google-golang-org-genproto 0.0.0-20200720141249-1244ee217b7e

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1.483 json 1.8.6

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Found in path(s):

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/Parser.rl

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* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/GeneratorService.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/RuntimeInfo.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/StringDecoder.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/OptionsReader.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/Utils.java

*

/opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/StringEncoder.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/ParserService.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/GeneratorMethods.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/Generator.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/GeneratorState.java

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/java/src/json/ext/ByteListTranscoder.java

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2017-01-13 (1.8.6)

* Be compatible with ancient ruby 1.8 (maybe?)

2015-09-11 (1.8.5)

* Be compatible with ruby 2.4.0

* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

----- (1.8.4) Skipped.

2015-06-01 (1.8.3)

* Fix potential memory leak, thx to nobu.

2015-01-08 (1.8.2)

* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.

* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of JSON.dump_default_options.

* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing space_before accessor in generator.

* Performance on Jruby improved by Ben Browning <bbrownin@redhat.com>.

* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

2013-05-13 (1.8.1)

* Remove Rubinius exception since transcoding should be working now.

2013-05-13 (1.8.0)

* Fix <https://github.com/flori/json/issues/162> reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!

* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.

* Applied patch by ginriki@github to remove unnecessary if.

* Add load/dump interface to JSON::GenericObject to make
serialize :some_attribute, JSON::GenericObject
work in Rails active models for convenient SomeModel#some_attribute.foo.bar
access to serialised JSON data.

2013-02-04 (1.7.7)

* Security

fix for JSON create_additions default value and JSON::GenericObject. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If JSON::GenericObject is supposed to be automatically deserialised, this has to be explicitly enabled by setting

```
JSON::GenericObject.json_creatable = true
```

as well.

* Remove useless assert in fbuffer implementation.

* Apply patch attached to <https://github.com/flori/json/issues#issue/155> provided by John Shahid <jvshahid@gmail.com>, Thx!

* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.

* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

2012-11-29 (1.7.6)

* Add GeneratorState#merge alias for JRuby, fix state accessor methods. Thx to

jvshahid@github.
* Increase hash likeness of state objects.
2012-08-17 (1.7.5)
* Fix compilation
of extension on older rubies.
2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see <https://github.com/flori/json/issues/142>
2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.
2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the
extension variant in jruby 1.9 mode.
2012-04-28 (1.7.1)
* Some small fixes for building
2012-04-28 (1.7.0)
* Add JSON::GenericObject for method access to objects transmitted via JSON.
2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.
2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting
everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo
<tom.enebo@gmail.com>), should fix
<https://github.com/flori/json/issues#issue/119>.
* Fix <https://github.com/flori/json/issues#issue/124> Thx to Jason Hutchens.
* Fix <https://github.com/flori/json/issues#issue/117>
2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using
optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda
<bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and
developing a patch fix.
2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter
<headius@headius.com>.
* Support object_class/array_class with duck typed hash/array.
2011-12-01 (1.6.3)
* Let JSON.load("") return nil as well to make mysql text columns (default to
"") work better for serialization.
2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in quirks_mode.
* Make JSON.dump and JSON.load methods better cooperate with Rails' serialize
method. Just use: serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the
patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in
a similar way to
what Evan Phoenix <evan@phx.io> suggested in:
<https://github.com/flori/json/pull/103>

2011-09-18 (1.6.1)

- * Using -target 1.5 to force Java bits to compile with 1.5.

2011-09-12 (1.6.0)

- * Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
- * Split json/add/core into different files for classes to be serialised.

2011-08-31 (1.5.4)

- * Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
- * Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in <https://github.com/flori/json/issues/46>.
- * Add :quirks_mode option to parser and generator.
- * Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

2011-06-20 (1.5.3)

- * Alias State#configure method as State#merge to increase duck type synonymy with Hash.
- * Add as_json methods in json/add/core, so rails can create its json objects the new way.

2011-05-11 (1.5.2)

- * Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
- * Add gemspecs for json and json_pure.
- * Fix bug in jruby pretty printing.
- * Fix bug in object_class and array_class when inheriting from Hash or Array.

2011-01-24 (1.5.1)

- * Made rake-compiler build a fat binary gem. This should fix issue <https://github.com/flori/json/issues#issue/54>.

2011-01-22 (1.5.0)

- * Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
- * Output full exception message of deep_const_get to aid debugging.
- * Fixed an issue with ruby 1.9 Module#const_defined? method, that was reported by Riley Goodside.

2010-08-09 (1.4.6)

- * Fixed oversight reported in <http://github.com/flori/json/issues/closed#issue/23>, always create a new object from the state prototype.
- * Made pure and ext api more similar again.

2010-08-07 (1.4.5)

- * Manage data structure nesting depth in state object during generation. This should reduce problems with to_json method definitions that only have one argument.
- * Some fixes in the state objects and additional tests.

2010-08-06 (1.4.4)

- * Fixes build problem for rubinius under OS X, <http://github.com/flori/json/issues/closed#issue/25>
- * Fixes crashes described in <http://github.com/flori/json/issues/closed#issue/21> and <http://github.com/flori/json/issues/closed#issue/23>

2010-05-05 (1.4.3)

- * Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.

- * Fixed issue <http://github.com/flori/json/issues/#issue/20> reported by electronicwhisper@github. Thx!
- 2010-04-26 (1.4.2)
- * Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
 - * Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extensiontask is not present.
 - * Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
 - * Applied 993f261ccb8f911d2ae57e9db48ec7acd0187283 patch from josh@github.
- 2010-04-25 (1.4.1)
- * Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.
- 2010-04-23 (1.4.0)
- * Major speed improvements and building with simplified directory/file-structure.
 - * Extension should at least be compatible with MRI, YARV and Rubinius.
- 2010-04-07 (1.2.4)
- * Trigger const_missing callback to make Rails' dynamic class loading work.
- 2010-03-11 (1.2.3)
- * Added a State#[] method which returns an attribute's value in order to increase duck type compatibility to Hash.
- 2010-02-27 (1.2.2)
- * Made some changes to make the building of the parser/generator compatible to Rubinius.
- 2009-11-25 (1.2.1)
- * Added :symbolize_names option to Parser, which returns symbols instead of strings in object names/keys.
- 2009-10-01 (1.2.0)
- * fast_generate now raises an exception for nan and infinite floats.
 - * On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
 - * Better documentation
- 2009-08-23 (1.1.9)
- * Added forgotten main doc file extra_rdoc_files.
- 2009-08-23 (1.1.8)
- * Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
 - * Applied patch by okkez_ in order to fix Ruby Bug #1768: <http://redmine.ruby-lang.org/issues/show/1768>.
 - * Finally got around to avoid the rather paranoid escaping of ?/ characters in the generator's output. The parsers aren't affected by this change. Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.
- 2009-06-29 (1.1.7)

* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue. Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.

* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

2009-05-10 (1.1.6)

* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

2009-05-10 (1.1.5)

* Started to build gems with rake-compiler gem.

* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

2009-04-01 (1.1.4)

* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.

* Deleted tests/runner.rb, we're using testrb instead.

* Editor supports Infinity in numbers now.

* Made some changes

in order to get the library to compile/run under Ruby 1.9.

* Improved speed of the code path for the fast_generate method in the pure variant.

2008-07-10 (1.1.3)

* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.

* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.

* Supports ragel >= 6.0 now.

* Corrected some tests.

* Some minor changes.

2007-11-27 (1.1.2)

* Remember default dir (last used directory) in editor.

* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.

* Load json texts from an URL pasted via middle button press.

* Added :create_additions option to Parser. This makes it possible to disable the creation

of additions by force, in order to treat json texts as data while having additions loaded.

* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.

* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

2007-07-06 (1.1.1)

* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.

* Introduced a JSON.parse! method without depth checking for people who like danger.

* Made generate and pretty_generate methods configurable by an options hash.

* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.

* Fixed some more tests for Ruby 1.9.

* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.

* Implemented the max_nesting feature for generate methods, too.

* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

2007-05-21 (1.1.0)

* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.

* Piers Cawley <pdcauley@bofh.org.uk> reported a bug, that not every character can be escaped by ?\ as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.

* Extended license to Ruby License, which includes the GPL.

* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

2007-05-09 (1.0.4)

* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!

* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

2007-03-24 (1.0.3)

* Improved performance of pure variant a bit.

* The ext variant of this release supports the mswin32 platform. Ugh!

2007-03-24 (1.0.2)

* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

2007-03-24

(1.0.1)

* Forgot some object files in the build dir. I really like that - not!

2007-03-24 (1.0.0)

* Added C implementations for the JSON generator and a ragel based JSON parser in C.

* Much more tests, especially fixtures from json.org.

* Further improved conformance to RFC4627.

2007-02-09 (0.4.3)

* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object "{ ... }" or array "[...]" in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby ([\t\r\n]), and there are differences in floats and integers (no octals or hexadecimals) as well.

* Added aliases generate and pretty_generate of unparse and pretty_unparse.

* Fixed a test case.

* Catch an Iconv::InvalidEncoding exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>,

thanks a bunch!

2006-08-25 (0.4.2)

* Fixed a bug in handling solidi (/characters), that was reported by

Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

2006-02-06 (0.4.1)

* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

2005-09-23 (0.4.0)

* Initial Rubyforge Version

Found in path(s):

* /opt/cola/permits/1826617125_1697781198.5544891/0/flori-json-v1-8-6-0-g7f4cfd8-1-tar-gz/flori-json-7f4cfd8/CHANGES

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/* Portions of the Selector class are derived from Jack Slocum's DomQuery,

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1.484 json 2.3.0

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1.485 rexml 3.2.3

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1.486 bundler 2.1.2

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1.487 webrick 1.6.0

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1.488 fileutils 1.4.1

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1.489 errors 0.9.1

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1.490 x-net 0.18.0

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1.491 btree 1.0.0

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1.492 tzdata 2021a-0+deb10u12

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1.493 ncurses 6.1+20181013-2+deb10u5

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

This package is used for testing builds of ncurses.

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

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Files: doc/html/NCURSES-Programming-HOWTO.html

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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

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

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

Files: *

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Files: aclocal.m4 package

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Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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-- vile: txtmode file-encoding=utf-8
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-- vile:txtmode fc=72

-- \$Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp \$

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This package was put together by Vaidhyanathan G Mayilrangam <vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz.

Current versions of the ncurses sources are found at ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>. Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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1.494 slimshady-golang-src-sls 0.0.0-20210813103202-9f5b02e6a1cc

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Legal documentation

This folder contains "legal" documents, such as licenses.

The config files needed for the smart agent configuration and registration are included in this folder.

post_agent_config.dat - contains the configs for the smart agent. Some of device id info is modified per container by

providing it the container id.

post_agent_instances is used to enable the smart agent. By default enable is false.

post_entitlement is used if we want to register an entitlement to a product.

post_registration is used to register the smart agent with token from the smart license account. For eventing, the smart license account need to be linked with CTR.

@startuml

title SSE Connector Enrollment Token Generation via Smart License

participant "Smart License"
participant "Smart Agent"
participant "SSE Cloud"
participant "CP Connector"
participant "Configuration Point"

"Configuration Point" -> "Smart Agent": configures & enables the smart agent

"Configuration Point" -> "Smart Agent": sends a request for a Smart Agent Instance to be registered with SL
note right: A valid token from Smart License account is required here

"Smart Agent" -> "Smart License" : requests to be registered

"Smart License" -> "Smart Agent": registers the Smart Agent instance

"Configuration Point" -> "Smart Agent" : requests for SSE third party key

"Smart Agent" -> "Smart License" : relays the third party request

"Smart License" -> "Smart Agent" : provides SSE's third party key

"Smart Agent" -> "Configuration Point" : relays the third party key response

"Configuration Point" -> "CP Connector" : relays the third party key to the connector and requests the connector to be enrolled

"CP Connector" -> "SSE Cloud" : requests a JWT token in exchange for the third party key

"SSE Cloud" -> "CP Connector" : provides JWT token for enrollment

"CP Connector" -> "SSE Cloud" : requests to be registered with JWT token

"SSE Cloud" -> "CP Connector" : registers connector

@enduml

devices

```
{
  68ad9652-dbc8-11e7-8ea8-f2f1456ca8e0
  {
    uuid 68ad9652-dbc8-11e7-8ea8-f2f1456ca8e0;
    smart_license_enabled 1;
    BASE 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    MALWARE 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    THREAT 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    URLFilter 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    URLFilter_enabled 2_by_3ee6693c-82d9-11eb-a575-ac2442c47077;
  }
}
```

}

= 0. Info:

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At a minimum, each entry should include:

- * A brief description of the license (what it is used for, etc.)
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- * The relevant terms of the license in the context of Secure Threat Services (cost structure, etc)
- * Key dates (contract/license expiration, renewal dates, etc.)
- * Applicable limits
- * Additional notes

= 1. Quick list of licenses:

- * Vineyard/Sandvine/Procera
- * ...

= 2. License details:

- * Vineyard/Sandvine/Procera
- ** Description: NAVL app detectors
- ** Owner: PM / AppID team (Costas Kleopa)
- ** Relevant terms: Limit of 5 products per current license agreement
- ** Key dates: N/A
- ** Limits: TBD (see Notes)
- ** Notes:

Mike Dorsey is currently looking into what constitutes a product per the terms of the contract. Depending on whether Secure Threat Services itself is considered a product vs Secure Threat Services on a particular platform, it may be necessary to acquire additional licenses.

1.495 beakerconfig 0.9.0-48

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```

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```
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```

The hypothetical

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1.496 keys 1.0-48

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```

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

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package roles

```
import (  
    "errors"  
    "fmt"  
)  
  
// PermissionMode permission mode  
type PermissionMode string  
  
const (  
    // Create predefined permission mode, create permission  
    Create PermissionMode = "create"  
    // Read predefined permission mode, read permission  
    Read PermissionMode = "read"  
    // Update predefined permission mode, update permission  
    Update PermissionMode = "update"  
    // Delete predefined permission mode, deleted permission  
    Delete PermissionMode = "delete"  
    // CRUD predefined permission mode, create+read+update+delete permission  
    CRUD PermissionMode = "crud"  
)  
  
// ErrPermissionDenied no permission error  
var ErrPermissionDenied = errors.New("permission denied")  
  
// Permission a struct contains permission definitions  
type Permission struct {  
    Role      *Role  
    AllowedRoles map[PermissionMode][]string  
    DeniedRoles map[PermissionMode][]string  
}  
  
func includeRoles(roles []string, values []string) bool {  
    for _, role := range roles {  
        if role == Anyone {  
            return true  
        }  
  
        for  
        _, value := range values {  
            if value == role {  
                return true  
            }  
        }  
    }  
}
```

```

    }
    }
    }
return false
}

// Concat concat two permissions into a new one
func (permission *Permission) Concat(newPermission *Permission) *Permission {
var result = Permission{
    Role:    Global,
    AllowedRoles: map[PermissionMode][]string{ },
    DeniedRoles: map[PermissionMode][]string{ },
}

var appendRoles = func(p *Permission) {
if p != nil {
    result.Role = p.Role

    for mode, roles := range p.DeniedRoles {
        result.DeniedRoles[mode] = append(result.DeniedRoles[mode], roles...)
    }

    for mode, roles := range p.AllowedRoles {
        result.AllowedRoles[mode] = append(result.AllowedRoles[mode], roles...)
    }
}
}

appendRoles(newPermission)
appendRoles(permission)
return &result
}

// Allow allows permission mode for roles
func (permission *Permission) Allow(mode PermissionMode, roles ...string) *Permission {
if mode == CRUD {
    return permission.Allow(Create, roles...).Allow(Update, roles...).Allow(Read,
roles...).Allow(Delete, roles...)
}

if permission.AllowedRoles[mode] == nil {
    permission.AllowedRoles[mode] = []string{ }
}
permission.AllowedRoles[mode] = append(permission.AllowedRoles[mode], roles...)
return permission
}

// Deny deny permission mode for roles

```

```

func (permission *Permission) Deny(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Deny(Create, roles...).Deny(Update, roles...).Deny(Read, roles...).Deny(Delete, roles...)
    }

    if permission.DeniedRoles[mode] == nil {
        permission.DeniedRoles[mode] = []string{}
    }
    permission.DeniedRoles[mode] = append(permission.DeniedRoles[mode], roles...)
    return permission
}

// HasPermission check roles has permission for mode or not
func (permission Permission) HasPermission(mode PermissionMode, roles ...interface{}) bool {
    var roleNames []string
    for _, role := range roles {
        if r, ok := role.(string); ok {
            roleNames = append(roleNames, r)
        } else if roler, ok := role.(Roler); ok {
            roleNames = append(roleNames, roler.GetRoles()...)
        } else {
            fmt.Printf("invalid role %#v\n", role)
            return false
        }
    }

    if len(permission.DeniedRoles) != 0 {
        if DeniedRoles := permission.DeniedRoles[mode]; DeniedRoles != nil {
            if includeRoles(DeniedRoles, roleNames) {
                return false
            }
        }
    }

    // return true if haven't define allowed roles
    if len(permission.AllowedRoles) == 0 {
        return true
    }

    if AllowedRoles := permission.AllowedRoles[mode]; AllowedRoles != nil {
        if includeRoles(AllowedRoles, roleNames) {
            return true
        }
    }

    return false
}

```

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package roles

```
import (  
    "errors"  
    "fmt"  
)  
  
// PermissionMode permission mode  
type PermissionMode string  
  
const (  
    // Create predefined permission mode, create permission  
    Create PermissionMode = "create"  
    // Read predefined permission mode, read permission  
    Read PermissionMode = "read"  
    // Update predefined permission mode, update permission  
    Update PermissionMode = "update"  
    // Delete predefined permission mode, deleted permission  
    Delete PermissionMode = "delete"  
    // CRUD predefined permission mode, create+read+update+delete permission  
    CRUD PermissionMode = "crud"  
)  
  
// ErrPermissionDenied no permission error  
var ErrPermissionDenied = errors.New("permission denied")  
  
// Permission a struct contains permission definitions  
type Permission struct {  
    Role      *Role  
    AllowedRoles map[PermissionMode][]string  
    DeniedRoles map[PermissionMode][]string  
}  
  
func includeRoles(roles []string, values []string) bool {  
    for _, role := range roles {  
        if role == Anyone {
```

```

    return true
}

for
_, value := range values {
    if value == role {
        return true
    }
}
return false
}

// Concat concat two permissions into a new one
func (permission *Permission) Concat(newPermission *Permission) *Permission {
    var result = Permission{
        Role:    Global,
        AllowedRoles: map[PermissionMode][]string{ },
        DeniedRoles: map[PermissionMode][]string{ },
    }

    var appendRoles = func(p *Permission) {
        if p != nil {
            result.Role = p.Role

            for mode, roles := range p.DeniedRoles {
                result.DeniedRoles[mode] = append(result.DeniedRoles[mode], roles...)
            }

            for mode, roles := range p.AllowedRoles {
                result.AllowedRoles[mode] = append(result.AllowedRoles[mode], roles...)
            }
        }
    }

    appendRoles(newPermission)
    appendRoles(permission)
    return &result
}

// Allow allows permission mode for roles
func (permission *Permission) Allow(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Allow(Create, roles...).Allow(Update, roles...).Allow(Read,
        roles...).Allow(Delete, roles...)
    }

    if permission.AllowedRoles[mode] == nil {

```

```

    permission.AllowedRoles[mode] = []string{}
}
permission.AllowedRoles[mode] = append(permission.AllowedRoles[mode], roles...)
return permission
}

// Deny deny permission mode for roles
func (permission *Permission) Deny(mode PermissionMode, roles ...string) *Permission {
if mode == CRUD {
return permission.Deny(Create, roles...).Deny(Update, roles...).Deny(Read, roles...).Deny(Delete, roles...)
}

if permission.DeniedRoles[mode] == nil {
permission.DeniedRoles[mode] = []string{}
}
permission.DeniedRoles[mode] = append(permission.DeniedRoles[mode], roles...)
return permission
}

// HasPermission check roles has permission for mode or not
func (permission Permission) HasPermission(mode PermissionMode, roles ...interface{ }) bool {
var roleNames []string
for _, role := range roles {
if r, ok := role.(string); ok {
roleNames = append(roleNames, r)
} else if roler, ok := role.(Roler);
ok {
roleNames = append(roleNames, roler.GetRoles()...)
} else {
fmt.Printf("invalid role %#v\n", role)
return false
}
}
}

if len(permission.DeniedRoles) != 0 {
if DeniedRoles := permission.DeniedRoles[mode]; DeniedRoles != nil {
if includeRoles(DeniedRoles, roleNames) {
return false
}
}
}

// return true if haven't define allowed roles
if len(permission.AllowedRoles) == 0 {
return true
}

if AllowedRoles := permission.AllowedRoles[mode]; AllowedRoles != nil {

```

```
if includeRoles(AllowedRoles, roleNames) {
    return true
}
}
```

```
return false
}
```

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

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Squirrel

The Masterminds

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Legal documentation

This folder contains "legal" documents, such as licenses.

The config files needed for the smart agent configuration and registration are included in this folder.

post_agent_config.dat - contains the configs for the smart agent. Some of device id info is modified per container by providing it the container id.

post_agent_instances is used to enable the smart agent. By default enable is false.

post_entitlement is used if we want to register an entitlement to a product.

post_registration is used to register the smart agent with token from the smart license account. For eventing, the smart license account need to be linked with CTR.

@startuml

title SSE Connector Enrollment Token Generation via Smart License

participant "Smart License"
participant "Smart Agent"
participant "SSE Cloud"
participant "CP Connector"
participant "Configuration Point"

"Configuration Point" -> "Smart Agent": configures & enables the smart agent

"Configuration Point" -> "Smart Agent": sends a request for a Smart Agent Instance to be registered with SL

note right: A valid token from Smart License account is required here

"Smart Agent" -> "Smart License" : requests to be registered
 "Smart License" -> "Smart Agent": registers the Smart Agent instance
 "Configuration Point" -> "Smart Agent" : requests for SSE third party key
 "Smart Agent" -> "Smart License" : relays the third party request
 "Smart License" -> "Smart Agent" : provides SSE's third party key
 "Smart Agent" -> "Configuration Point" : relays the third party key response
 "Configuration Point" -> "CP Connector" : relays the third party key to the connector and requests the connector to be enrolled
 "CP Connector" -> "SSE Cloud" : requests a JWT token in exchange for the third party key
 "SSE Cloud" -> "CP Connector" : provides JWT token for enrollment
 "CP Connector" -> "SSE Cloud" : requests to be registered with JWT token
 "SSE Cloud" -> "CP Connector" : registers connector

@enduml

devices

```
{
  68ad9652-dbc8-11e7-8ea8-f2f1456ca8e0
  {
    uuid 68ad9652-dbc8-11e7-8ea8-f2f1456ca8e0;
    smart_license_enabled 1;
    BASE 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    MALWARE 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    THREAT 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    URLFilter 1_from_3ee6693c-82d9-11eb-a575-ac2442c47077;
    URLFilter_enabled 2_by_3ee6693c-82d9-11eb-a575-ac2442c47077;
  }
}
```

= 0. Info:

Given the numerous product features that can be included in Secure Threat Services, it is necessary to track the specifics

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- * License or contract owner
- * The relevant terms of the license in the context of Secure Threat Services (cost structure, etc)
- * Key dates (contract/license expiration, renewal dates, etc.)
- * Applicable limits
- * Additional notes

= 1. Quick list of licenses:

- * Vineyard/Sandvine/Procera
- * ...

= 2. License details:

* Vineyard/Sandvine/Prodera

** Description: NAVL app detectors

** Owner: PM / AppID team (Costas Kleopa)

** Relevant terms: Limit of 5 products per current license agreement

** Key dates: N/A

** Limits: TBD (see Notes)

** Notes:

Mike Dorsey is currently looking into what constitutes a product per the terms of the contract. Depending on whether Secure Threat Services itself is considered a product vs Secure Threat Services on a particular platform, it may be necessary to acquire additional licenses.

1.500 golang 1.21.6

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1.501 ruby-gems 1.16

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1.502 ruby-defaults 2.7+1

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1.503 handlebarsjs 4.0.6

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Manifest-Version: 1.0

Export-Package: com.github.jknack.handlebars.cache;uses:="com.github.jknack.handlebars,com.github.jknack.handlebars.io,org.apache.commons.lang3.tuple";version="4.0.6",com.github.jknack.handlebars.context;uses:="com.github.jknack.handlebars";version="4.0.6",com.github.jknack.handlebars;uses:="com.github.jknack.handlebars.cache,com.github.jknack.handlebars.io";version="4.0.6",com.github.jknack.handlebars.helper;uses:="com.github.jknack.handlebars,com.github.jknack.handlebars.js";version="4.0.6",com.github.jknack.handlebars.io;uses:="javax.servlet";version="4.0.6",com.github.jknack.handlebars.js;uses:="com.github.jknack.handlebars";version="4.0.6"

Built-By: edgar

Tool: Bnd-2.4.1.201501161923

Bundle-Name: Handlebars

Created-By: Apache Maven Bundle Plugin

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Build-Jdk: 1.7.0_55

Bundle-Version: 4.0.6

Bnd-LastModified:

1470832695806

Bundle-ManifestVersion: 2

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-Description: Logic-less and semantic templates with Java

Bundle-SymbolicName: com.github.jknack.handlebars

Import-Package: com.github.jknack.handlebars.io,javax.servlet,organtlr.v4.runtime;version="[4.5,5)",org.antlr.v4.runtime.atn;version="[4.5,5)",org.antlr.v4.runtime.dfa;version="[4.5,5)",org.antlr.v4.runtime.misc;version="[4.5,5)",org.antlr.v4.runtime.tree;version="[4.5,5)",org.apache.commons.lang3;version="[3.1,4)",org.apache.commons.lang3.builder;version="[3.1,4)",org.apache.commons.lang3.math;version="[3.1,4)",org.apache.commons.lang3.text;version="[3.1,4)",org.apache.commons.lang3.text.translate;version="[3.1,4)",org.apache.commons.lang3.tuple;version="[3.1,4)",org.mozilla.javascript,org.mozilla.javascript.tools,org.slf4j;version="[1.6,2)"

Archiver-Version: Plexus Archiver

Found in path(s):

* /opt/cola/permits/1892290159_1706049277.66489/0/handlebars-4-0-6-3-jar/META-INF/MANIFEST.MF

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handlebars v4.0.4

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Found in path(s):

* /opt/cola/permits/1892290159_1706049277.66489/0/handlebars-4-0-6-3-jar/handlebars-v4.0.4.js

1.504 x-net 0.0.0-20200625001655-4c5254603344

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1.505 tomb 1.0.0-20141024135613-dd632973f1e7

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tomb - support for clean goroutine termination in Go.

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1.506 libsoup 2.64.0-3.ph3

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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or
(at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

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

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

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.508 libnss-nis 247.3-7

1.508.1 Available under license :

```
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999
```

```
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
```

```
@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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

@end display

@subheading Preamble

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

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

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

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

Activities other than copying, distribution and modification are not

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

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@item

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

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

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

@end enumerate

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

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@item

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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

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@item

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

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

@item

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@item

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Version 2, June 1991

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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

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@subheading END OF TERMS AND CONDITIONS

@page

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1.511 libnss-nisplus 2.31

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Version 2.1, February 1999

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

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

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

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

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

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a) Accompany

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

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1.513 libnss-nisplus 2.31

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1.514 libnss-nis 2.31

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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

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Any

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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tests/pkcs11/pkcs11-mock.*

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* For English description, check RFC 5830.

* S-Boxes are expanded from the tables defined in RFC4357:

* <https://tools.ietf.org/html/rfc4357>

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* based on the Russian Standard GOST R 34.11-94.

* English description in RFC 5831.

* See also RFC 4357.

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section 10

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```
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```

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```

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```

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This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:

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1.525 aws-aws-sdk-go-v2-internal-configsources 1.3.5

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    //
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = addRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack, options); err != nil {
        return err
    }
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName:
"CheckoutBorrowLicense",
}
}
CreateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter

```

SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity

ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming

```

RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a

```

```

// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if
    err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

```

```

noSmithyDocumentSerde
}

type
CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if
err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {

```

```

return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{

```



```

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde

```

```

}

type
GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err
!= nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}

```

```

}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {

```

```

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "GetLicense",
}
}
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - ProductSKU
    // - Status
    // - Fingerprint
    //
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

```

```

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
}

```

```

if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
}
}

```

```

ServiceID:
ServiceID,
OperationName: "ListReceivedLicenses",
}
}
DeleteLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```



```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout
    type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string
}

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
    return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata
    = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace. Amazon Managed Grafana
    // workspaces no longer support Grafana Enterprise free trials.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    // A token from Grafana Labs that ties your Amazon Web Services account with a
    // Grafana Labs account. For more information, see Register with Grafana Labs
    (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise)
    // .
    GrafanaToken *string

```

```

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func
(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,

```

```

options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {

```

```

    return err
  }
  return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
  Region:    region,
  ServiceID: ServiceID,
  OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  "fmt"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  // - Beneficiary

```



```

// - ProductSKU
// - Fingerprint
// - Status
Filters []types.Filter

//
Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}
}

```

```

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "ListLicenses",
}
}
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step

```

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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ListReceivedLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength

UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata

ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns  
    ..func(*Options)) (*DisassociateLicenseOutput, error) {  
    if params == nil {  
        params = &DisassociateLicenseInput{ }  
    }  
}
```

```
result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,  
    c.addOperationDisassociateLicenseMiddlewares)  
if err != nil {
```

```

return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This member is required.
LicenseType types.LicenseType

//
// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {

```

```

return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DisassociateLicense",
}
}

```

```

AssociateLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint

```

```

OperationSerializer

```

```

Build stack step

```

```

ClientRequestID

```

```

ComputeContentLength

```

```

UserAgent

```

```

RecursionDetection

```

```

Finalize stack step

```

ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper

```

RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

```

```

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err !=
    nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```



```

}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
}

```

```
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DeleteLicense",
}
}
```

1.526 aws-smithy-go 1.20.2

1.526.1 Available under license :

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1.527 aws-aws-sdk-go-v2-internal-endpoints

2.6.5

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AWS SDK for Go

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CreateLicense

Initialize stack step

RegisterServiceMetadata

```

legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {

```

```

params = &CheckoutBorrowLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
//
the request.

```

```

//

```

```

// This member is required.

```

```

ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)

```

```

// algorithm PS384. For more information, see RFC 7518 Digital Signature with

```

```

// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .

```

```

//

```

```

// This member is required.

```

```

DigitalSignatureMethod types.DigitalSignatureMethod

```

```

// License entitlements. Partial checkouts are not supported.

```

```

//

```

```

// This member is required.

```

```

Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow

```

```

// consumption configuration.

```

```

//

```

```

// This member is required.

```

```

LicenseArn *string

```

```

// Information about constraints.

```

```

CheckoutMetadata []types.Metadata

```

```

// Node ID.

```

```

NodeId *string

```

```

noSmithyDocumentSerde

```



```

}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    //
    Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName:
"CheckoutBorrowLicense",
}
}

```

```

GetLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint

```

```

OperationSerializer

```

```

Build stack step

```

```

ClientRequestID

```

```

ComputeContentLength

```

```

UserAgent

```

```

RecursionDetection

```

```

Finalize stack step

```

```

ResolveAuthScheme

```

GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer

```

RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional

```

```
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}
```

```

type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if
    err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
}

```



```

return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.

```

Beneficiary *string

```
noSmithyDocumentSerde  
}
```

type

```
CheckInLicenseOutput struct {  
    // Metadata pertaining to the operation's result.  
    ResultMetadata middleware.Metadata
```

```
noSmithyDocumentSerde  
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {  
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {  
        return err  
    }  
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {  
        return fmt.Errorf("add protocol finalizers: %v", err)  
    }  
  
    if err = addLegacyEndpointContextSetter(stack, options); err != nil {  
        return err  
    }  
    if err = addSetLoggerMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = addClientRequestID(stack); err != nil {  
        return err  
    }  
    if  
    err = addComputeContentLength(stack); err != nil {  
        return err  
    }  
    if err = addResolveEndpointMiddleware(stack, options); err != nil {  
        return err  
    }  
    if err = addComputePayloadSHA256(stack); err != nil {  
        return err  
    }  
}
```

```

if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata

```

```

{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

```

```

noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err
!= nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {

```

```

return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "GetLicense",
    }
}
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - ProductSKU
// - Status
// - Fingerprint
//
- IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

```



```

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
}

```

```

}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{

```

```

    Region:    region,
    ServiceID:
    ServiceID,
    OperationName: "ListReceivedLicenses",
  }
}
DeleteLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout
    type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"

```

```

"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata
    = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace. Amazon Managed Grafana
    // workspaces no longer support Grafana Enterprise free trials.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    // A token from Grafana Labs that ties your Amazon Web Services account with a
    // Grafana Labs account. For more information, see Register with Grafana Labs
    (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise)
    // .

```


GrafanaToken *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.

//

// This member is required.

Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func

(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {

return err

}

err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)

if err != nil {

return err

}

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)

if err != nil {

return err

}

if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {

return fmt.Errorf("add protocol finalizers: %v", err)

}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {

return err

}

if err = addSetLoggerMiddleware(stack, options); err != nil {

return err

}

if err = addClientRequestID(stack); err != nil {

return err

}

if err = addComputeContentLength(stack); err != nil {

return err

}

if err = addResolveEndpointMiddleware(stack,

```

options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {

```

```

    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary

```

```

// - ProductSKU
// - Fingerprint
// - Status
Filters []types.Filter

//
Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}
}

```

```

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "ListLicenses",
}
}
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step

```

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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ListReceivedLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength

UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata

ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns  
    ..func(*Options)) (*DisassociateLicenseOutput, error) {  
    if params == nil {  
        params = &DisassociateLicenseInput{ }  
    }  
}
```

```
result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,  
    c.addOperationDisassociateLicenseMiddlewares)  
if err != nil {
```

```

    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    //
    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
    if err != nil {

```

```

return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {

```

```

    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DisassociateLicense",
}
}

```

```

AssociateLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint

```

```

OperationSerializer

```

```

Build stack step

```

```

ClientRequestID

```

```

ComputeContentLength

```

```

UserAgent

```

```

RecursionDetection

```

```

Finalize stack step

```


ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper

```

RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

```

```

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err !=
    nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DeleteLicense",
}
}
}

```

1.528 aws-aws-sdk-go 1.26.1

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CreateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper

```

RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    //
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //

```

```

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.

```

```

SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {

```



```

return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
}
}

```

```
OperationName:
"CheckoutBorrowLicense",
}
}
GetLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
```

```

ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

noSmithyDocumentSerde
}

type
CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

if err = addClientRequestID(stack); err != nil {
    return err
}
if
err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckInLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
}

```

```

return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
    // This member is required.
    ProductName *string

```

```

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {

```



```

return fmt.Errorf("add protocol finalizers: %v", err)
}

if
err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),

```

```

middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err
!= nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);

```

```

err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "GetLicense",
    }
}
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS

```

```

ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:

```

```

// - ProductSKU
// - Status
// - Fingerprint
//
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
if err != nil {
return err
}
}

```

```

if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}

if err = addClientRequestID(stack); err != nil {
    return err
}

if err = addComputeContentLength(stack); err != nil {
    return err
}

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}

if err = addComputePayloadSHA256(stack); err != nil {
    return err
}

if err = addRetry(stack, options); err != nil {
    return err
}

if err = addRawResponseToMetadata(stack); err != nil {
    return err
}

if err = addRecordResponseTiming(stack); err != nil {
    return err
}

if err = addClientUserAgent(stack, options); err != nil {
    return err
}

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}

```



```

if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID:
ServiceID,
    OperationName: "ListReceivedLicenses",
}
}

```

```

DeleteLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint

```

```

OperationSerializer

```

```

Build stack step

```

```

ClientRequestID

```

```

ComputeContentLength

```

```

UserAgent

```

```

RecursionDetection

```

```

Finalize stack step

```

```

ResolveAuthScheme

```

```

GetIdentity

```

```

ResolveEndpointV2

```

```

disableHTTPS

```

```

ComputePayloadHash

```

```

Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

```

```

// Checkout
type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.

```

```

IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack,
options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata

```

```

= metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace. Amazon Managed Grafana
// workspaces no longer support Grafana Enterprise free trials.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

// A token from Grafana Labs that ties your Amazon Web Services account with a
// Grafana Labs account. For more information, see Register with Grafana Labs
(https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise)
// .
GrafanaToken *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func
(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}

```



```

}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    // - Status
    Filters []types.Filter

    //
    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack,
        options, "ListLicenses"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = addRecordResponseTiming(stack); err != nil {

```

```

return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "ListLicenses",
}
}
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter

```

SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

CheckoutLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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```

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    //
    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

```

```

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
}

```

```

if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```
*awsmiddleware.RegisterServiceMetadata {  
  return &awsmiddleware.RegisterServiceMetadata{  
    Region:    region,  
    ServiceID: ServiceID,  
    OperationName: "DisassociateLicense",  
  }  
}
```

AssociateLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

CheckInLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

```

setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,

```



```

c.addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
    return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
    return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err !=
nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}

```

```

if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DeleteLicense",
}
}

```

1.529 util-linux 2.33.1-0.1+deb10u1

1.529.1 Available under license :

NR START END SECTORS SIZE NAME UUID

```

1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

```

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```

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it
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```

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```
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```

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

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```
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1uE
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

```
;9GimCN7g
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1

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1.530 aws-aws-sdk-go-v2-service-s3 1.53.1

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1.531 aws-aws-sdk-go-v2 1.28.6

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CreateLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity


```

ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

```

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks out the specified license for offline use.
```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

```

```

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

```

```

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```
type CheckoutBorrowLicenseInput struct {
```

```

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
//
the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.

```

```

IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName:
    "CheckoutBorrowLicense",
}
}
GetLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer

```

```

RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.

```

```

func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type
CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {

```

```

return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if
err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}

```



```

    }
    if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
        return
    err
    }
    if err = addRecursionDetection(stack); err != nil {
        return err
    }
    if err = addRequestIDRetrieverMiddleware(stack); err != nil {
        return err
    }
    if err = addResponseErrorMiddleware(stack); err != nil {
        return err
    }
    if err = addRequestResponseLogging(stack, options); err != nil {
        return err
    }
    if err = addDisableHTTPSMiddleware(stack, options); err != nil {
        return err
    }
    return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckInLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {

```

```

if params == nil {
    params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //

```

```

// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
    return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if
err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err
!= nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "GetLicense",
}
}

```

```

CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput

```



```

ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)

```

```

if err != nil {
    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - ProductSKU
    // - Status
    // - Fingerprint
    //
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {

```

```

if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
    return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);

```

```

err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID:
    ServiceID,
    OperationName: "ListReceivedLicenses",
}
}

```

```

DeleteLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout
    type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

```

```

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the checkout license.
    LicenseArn
    *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }
}

```

```

}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {

```



```

    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {

```

```

if params == nil {
    params = &AssociateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*AssociateLicenseOutput)
out.ResultMetadata
= metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace. Amazon Managed Grafana
// workspaces no longer support Grafana Enterprise free trials.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

// A token from Grafana Labs that ties your Amazon Web Services account with a
// Grafana Labs account. For more information, see Register with Grafana Labs
(https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise)
// .
GrafanaToken *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func
(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}

```

```

}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    // - Status
    Filters []types.Filter

    //
    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.

```

```

NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
}

```

```

if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil

```

}

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {  
    return &awsmiddleware.RegisterServiceMetadata{  
        Region:    region,  
        ServiceID: ServiceID,  
        OperationName: "ListLicenses",  
    }  
}
```

DisassociateLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns  
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
    if params == nil {  
        params = &DisassociateLicenseInput{  
    }  
}
```

```
    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,  
c.addOperationDisassociateLicenseMiddlewares)
```

```
    if err != nil {  
        return nil, err  
    }
```

```
    out := result.(*DisassociateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}
```

```
type DisassociateLicenseInput struct {
```

```
    // The type of license to remove from the workspace.
```

```
    //
```

```
    // This member is required.
```

LicenseType types.LicenseType

//

The ID of the workspace to remove the Grafana Enterprise license from.

//

// This member is required.

WorkspaceId *string

noSmithyDocumentSerde

}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.

//

// This member is required.

Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err

}

err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)

if err != nil {

return err

}

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)

if err != nil {

return err

}

if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");

err != nil {

return fmt.Errorf("add protocol finalizers: %v", err)

}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {

return err

}

if err = addSetLoggerMiddleware(stack, options); err != nil {

return err

}


```

if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DisassociateLicense",
}
}
AssociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody

```

```

ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err !=
nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
}

```

```

if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "DeleteLicense",
    }
}

```

1.532 aws-aws-sdk-go-v2-service-ssooidc

1.23.4

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CreateLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (

```

"context"
"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
..func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
//
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow

```



```

// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err

```

```

error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
    return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName:
"CheckoutBorrowLicense",
}
}
GetLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger

```

OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS

```

ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.

```

```
//  
// This member is required.  
Beneficiary *string  
  
// Unique, case-sensitive identifier that you provide to ensure the idempotency of  
// the request.  
//  
//  
This member is required.  
ClientToken *string  
  
// Configuration for consumption of the license. Choose a provisional  
// configuration for workloads running with continuous connectivity. Choose a  
// borrow configuration for workloads with offline usage.  
//  
// This member is required.  
ConsumptionConfiguration *types.ConsumptionConfiguration  
  
// License entitlements.  
//  
// This member is required.  
Entitlements []types.Entitlement  
  
// Home Region for the license.  
//  
// This member is required.  
HomeRegion *string  
  
// License issuer.  
//  
// This member is required.  
Issuer *types.Issuer  
  
// License name.  
//  
// This member is required.  
LicenseName *string  
  
// Product name.  
//  
// This member is required.  
ProductName *string  
  
// Product SKU.  
//  
// This member is required.  
ProductSKU *string
```

```

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if
err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
}

```



```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

noSmithyDocumentSerde
}

type
CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {

```

```

return err
}
if
err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

}
if err = addClientRequestID(stack); err
!= nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "GetLicense",
    }
}

CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody

```

```

ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
    ..func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
    c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - ProductSKU
    // - Status
    // - Fingerprint
    //
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.

```



```

LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}

```

```

}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID:
ServiceID,
    OperationName: "ListReceivedLicenses",
}
}
DeleteLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper

```

```

RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout
    // type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //

```

```

// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {

```

```

return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{

```

```

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata
    = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace. Amazon Managed Grafana
    // workspaces no longer support Grafana Enterprise free trials.
    //
    // This member is required.

```


LicenseType types.LicenseType

// The ID of the workspace to associate the license with.

//

// This member is required.

WorkspaceId *string

// A token from Grafana Labs that ties your Amazon Web Services account with a

// Grafana Labs account. For more information, see Register with Grafana Labs

(<https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise>)

// .

GrafanaToken *string

noSmithyDocumentSerde

}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.

//

// This member is required.

Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

func

(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {

return err

}

err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)

if err != nil {

return err

}

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)

if err != nil {

return err

}

if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {

return fmt.Errorf("add protocol finalizers: %v", err)

}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {

```

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {

```

```

    return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    // - Status
    Filters []types.Filter

    //
    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
}

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);

```

```

err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "ListLicenses",
    }
}

```

```

DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength

```

UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

CheckoutLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"
```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    //
    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

```

```

}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {

```

```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DisassociateLicense",
}
}

```

```

AssociateLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```


legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme

```

GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err !=

```

```

nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DeleteLicense",
}
}

```

1.533 aws-aws-sdk-go-v2-internal-v4a 1.3.5

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1.534 aws-aws-sdk-go-v2-aws-protocol-eventstream 1.6.2

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1.535 aws-aws-sdk-go-v2-service-internal-checksum 1.3.7

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1.536 aws-aws-sdk-go-v2-service-internal-s3shared 1.17.5

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1.537 goprotobuf 1.5.2

1.537.1 Available under license :

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Protocol Buffers for Go with Gadgets

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

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

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1.538 go-jmespath 0.4.0

1.538.1 Available under license :

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1.539 aws-aws-sdk-go-v2 1.27.11

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AWS SDK for Go

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CreateLicense

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

```

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    //
    the request.
    //
    // This member is required.
    ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

//
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
}

```

```

if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
  Region:    region,
  ServiceID: ServiceID,
  OperationName:
"CheckoutBorrowLicense",
}
}
GetLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step

```

```

setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)

```

```

if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type
CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
}

```



```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if
err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return
err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckInLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a
    // borrow configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

```

```

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if
err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}

```

```

if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {

```

```

if params == nil {
    params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err
!= nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
}

```



```

if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "GetLicense",
    }
}

```

```

CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step

```

```

ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - ProductSKU
    // - Status
    // - Fingerprint
    //
    // - IssuerName
    // - Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },

```

```

middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID:
ServiceID,
    OperationName: "ListReceivedLicenses",
}
}

```

```

DeleteLicense

```

```

Initialize stack step

```

```

RegisterServiceMetadata

```

```

legacyEndpointContextSetter

```

```

SetLogger

```

```

OperationInputValidation

```

```

Serialize stack step

```

```

setOperationInput

```

```

ResolveEndpoint

```

```

OperationSerializer

```

```

Build stack step

```

```

ClientRequestID

```

```

ComputeContentLength

```

```

UserAgent

```

```

RecursionDetection

```

```

Finalize stack step

```

```

ResolveAuthScheme

```

```

GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

```

```

}

type CheckoutLicenseInput struct {

    // Checkout
    type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

```

```

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
return err
}
}

```



```

if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}

```

```

out := result.(*AssociateLicenseOutput)
out.ResultMetadata
= metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace. Amazon Managed Grafana
// workspaces no longer support Grafana Enterprise free trials.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

// A token from Grafana Labs that ties your Amazon Web Services account with a
// Grafana Labs account. For more information, see Register with Grafana Labs
(https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise)
// .
GrafanaToken *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func
(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
}

```

```

err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    // - Beneficiary
    // - ProductSKU
    // - Fingerprint
    // - Status
    Filters []types.Filter

    //
    Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

```

```

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack,
        options, "ListLicenses"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "ListLicenses",
}
}
}

```


DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

RecursionDetection

Finalize stack step

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

Retry

RetryMetricsHeader

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns  
    ..func(*Options)) (*DisassociateLicenseOutput, error) {  
    if params == nil {  
        params = &DisassociateLicenseInput{ }  
    }  
}
```

```
    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,  
    c.addOperationDisassociateLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
}
```

```
    out := result.(*DisassociateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}
```

```
type DisassociateLicenseInput struct {
```

```
    // The type of license to remove from the workspace.
```

```
    //
```

```
    // This member is required.
```

```
    LicenseType types.LicenseType
```

```
    //
```

```
    // The ID of the workspace to remove the Grafana Enterprise license from.
```

```
    //
```

```
    // This member is required.
```

```
    WorkspaceId *string
```



```

noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {

```

```

return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
return err
}

```

```

}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID: ServiceID,
OperationName: "DisassociateLicense",
}
}
AssociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step

```

```

RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {

```

```

if params == nil {
    params = &DeleteLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion
    *string

    noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
    return err
}
}

```

```

}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
    return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err !=
nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {

```

```

    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DeleteLicense",
}
}

```

1.540 aws-aws-sdk-go-v2 1.20.5

1.540.1 Available under license :

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CreateLicense

Initialize stack step

```

RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
  setOperationInput
ResolveEndpoint
  OperationSerializer
Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  RecursionDetection
Finalize stack step
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  Retry
  RetryMetricsHeader
  setLegacyContextSigningOptions
  Signing
Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  "fmt"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {

```



```

if params == nil {
    params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    //
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

```

```

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    //
    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
if err := addProtocolFinalizerMiddlewares(stack,
options, "CheckoutBorrowLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName:
"CheckoutBorrowLicense",
}
}

```

```

GetLicense

```

```

Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step

```

ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever

```

OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type

```

```

CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if
err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
}

```

```

if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return
    err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckInLicense",
    }
}

```



```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional
    // configuration for workloads running with continuous connectivity. Choose a

```

```

// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

```

```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if
    err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return
err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.

```

```

Version *string

noSmithyDocumentSerde
}

type
GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err
!= nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}

```

```

}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
}
return nil

```

```

}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "GetLicense",
}
}
CheckoutBorrowLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (

```



```

"context"
"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
// - ProductSKU
// - Status
// - Fingerprint
//
// - IssuerName
// - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

```

```

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ },
middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}

```

```

if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID:
ServiceID,
    OperationName: "ListReceivedLicenses",
}
}
DeleteLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"

```

```

"fmt"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout
    // type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //

```

```

// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

```

```

}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
        return fmt.Errorf("add protocol finalizers: %v", err)
    }

    if err = addLegacyEndpointContextSetter(stack, options); err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack,
options); err != nil {
        return err
    }
    if err = addClientRequestID(stack); err != nil {
        return err
    }
    if err = addComputeContentLength(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = addComputePayloadSHA256(stack); err != nil {
        return err
    }
    if err = addRetry(stack, options); err != nil {
        return err
    }
    if err = addRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = addRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack, options); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err =
stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "CheckoutLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

```



```

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata
    = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace. Amazon Managed Grafana
    // workspaces no longer support Grafana Enterprise free trials.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    // A token from Grafana Labs that ties your Amazon Web Services account with a
    // Grafana Labs account. For more information, see Register with Grafana Labs
    (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-

```

```

register-enterprise)
// .
GrafanaToken *string

noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func
(c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}

```

```

}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "AssociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:
// - Beneficiary
// - ProductSKU
// - Fingerprint
// - Status
Filters []types.Filter

//
Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack,

```

```

options, "ListLicenses"); err != nil {
    return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = addClientRequestID(stack); err != nil {
    return err
}
if err = addComputeContentLength(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addComputePayloadSHA256(stack); err != nil {
    return err
}
if err = addRetry(stack, options); err != nil {
    return err
}
if err = addRawResponseToMetadata(stack); err != nil {
    return err
}
if err = addRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
    return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
}

```

```

if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        OperationName: "ListLicenses",
    }
}
DisassociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader

```

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

RecordResponseTiming

RequestResponseLogger

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ListReceivedLicenses

Initialize stack step

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

Serialize stack step

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions

Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (  
    "context"  
    "fmt"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)
```

```
// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns  
...func(*Options)) (*DisassociateLicenseOutput, error) {  
    if params == nil {  
        params = &DisassociateLicenseInput{ }  
    }  
}
```

```

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    //
    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
        return err
    }
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
    if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil
{
return err
}
}

```



```

if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opDisassociateLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DisassociateLicense",
}
}

```

```

AssociateLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID

```

ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
Serialize stack step
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
RecursionDetection
Finalize stack step
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
Retry
RetryMetricsHeader
setLegacyContextSigningOptions
Signing
Deserialize stack step

```

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
RecordResponseTiming
RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "fmt"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //

```

```

// This member is required.
SourceVersion
*string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{ }, middleware.After); err != nil {
return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addLegacyEndpointContextSetter(stack, options); err !=
nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = addClientRequestID(stack); err != nil {
return err
}
if err = addComputeContentLength(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addComputePayloadSHA256(stack); err != nil {
return err
}
if err = addRetry(stack, options); err != nil {
return err
}
if err = addRawResponseToMetadata(stack); err != nil {
return err
}
if err = addRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack);
err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}

```

```

}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    OperationName: "DeleteLicense",
}
}
}

```

1.541 aws-aws-sdk-go-v2-feature-s3-manager

1.16.15

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1.542 go-humanize 1.0.0

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1.544 protobuf 1.28.1

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1.545 errors 0.9.1

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1.548 aws-sdk-go 1.44.123

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  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"ResourceNotFoundException"}
]
},
"GetAccessToken":{"
  "name":"GetAccessToken",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetGrant":{"
  "name":"GetGrant",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetGrantRequest"},
  "output":{"shape":"GetGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicense":{"
  "name":"GetLicense",

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```

"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"GetLicenseRequest"},
"output":{"shape":"GetLicenseResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseManagerReportGenerator":{

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```

"name":"GetLicenseManagerReportGenerator",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
"output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"AccessDeniedException"},
  {"shape":"ResourceNotFoundException"}
]
},
"GetLicenseUsage":{"
"name":"GetLicenseUsage",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"GetLicenseUsageRequest"},
"output":{"shape":"GetLicenseUsageResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"GetServiceSettings":{"
"name":"GetServiceSettings",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
}

```

```

]
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},

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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},

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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},

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"output":{"shape":"ListLicensesResponse"},
"errors":[
  {"shape":"ValidationException"},

  {"shape":"InvalidParameterValueException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
>ListReceivedGrants":{"
  "name":"ListReceivedGrants",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
>ListReceivedLicenses":{"
  "name":"ListReceivedLicenses",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
>ListResourceInventory":{"

```



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"name":"ListResourceInventory",
"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListResourceInventoryRequest"},
"output":{"shape":"ListResourceInventoryResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"FilterLimitExceededException"},
  {"shape":"FailedDependencyException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
}

```

```

]
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},

```

```

    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},

```

```

    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"InvalidResourceStateException"},
    {"shape":"LicenseUsageException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
}
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],

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```

"members":{
  "GrantArn":{"shape":"Arn"}
}
},
"AcceptGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"AccessDeniedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
    "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9_/_+=,@.-]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{

```

```

"type":"structure",
"members":{
  "Message":{"shape":"Message"}
},
"exception":true
},
"AutomatedDiscoveryInformation":{
"type":"structure",
"members":{
  "LastRunTime":{"shape":"DateTime"}
}
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
"type":"structure",
"required":[
  "AllowEarlyCheckIn",
  "MaxTimeToLiveInMinutes"
],
"members":{
  "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
  "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
}
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
  "LicenseConsumptionToken":{"shape":"String"},
  "Beneficiary":{"shape":"String"}
}
},
"CheckInLicenseResponse":{
"type":"structure",
"members":{
}
},
"CheckoutBorrowLicenseRequest":{
"type":"structure",
"required":[
  "LicenseArn",
  "Entitlements",
  "DigitalSignatureMethod",
  "ClientToken"
],

```

```

"members":{
  "LicenseArn":{"shape":"Arn"},
  "Entitlements":{"shape":"EntitlementDataList"},
  "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
  "NodeId":{"shape":"String"},
  "CheckoutMetadata":{"shape":"MetadataList"},
  "ClientToken":{"shape":"ClientToken"}
}
},
"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "NodeId":{"shape":"String"},
    "SignedToken":{"shape":"SignedToken"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "CheckoutMetadata":{"shape":"MetadataList"}
  }
},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
  }
},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},

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```

    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
}

```



```

    }
  },
  "CreateGrantRequest":{
    "type":"structure",
    "required":[
      "ClientToken",
      "GrantName",
      "LicenseArn",
      "Principals",
      "HomeRegion",
      "AllowedOperations"
    ],
    "members":{
      "ClientToken":{"shape":"ClientToken"},
      "GrantName":{"shape":"String"},
      "LicenseArn":{"shape":"Arn"},
      "Principals":{"shape":"PrincipalArnList"},
      "HomeRegion":{"shape":"String"},
      "AllowedOperations":{"shape":"AllowedOperationList"}
    }
  },
  "CreateGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "CreateGrantVersionRequest":{
    "type":"structure",
    "required":[
      "ClientToken",
      "GrantArn"
    ],
    "members":{
      "ClientToken":{"shape":"ClientToken"},
      "GrantArn":{"shape":"Arn"},

      "GrantName":{"shape":"String"},
      "AllowedOperations":{"shape":"AllowedOperationList"},
      "Status":{"shape":"GrantStatus"},
      "StatusReason":{"shape":"StatusReasonMessage"},
      "SourceVersion":{"shape":"String"}
    }
  },
  "CreateGrantVersionResponse":{
    "type":"structure",

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```

"members":{
  "GrantArn":{"shape":"Arn"},
  "Status":{"shape":"GrantStatus"},
  "Version":{"shape":"String"}
}
},
"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "LicenseRules":{"shape":"StringList"},
    "Tags":{"shape":"TagList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ProductInformationList":{"shape":"ProductInformationList"}
  }
},
"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{"shape":"Arn"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
}

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},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "Entitlements":{"shape":"EntitlementList"},

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    "Beneficiary":{"shape":"String"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "Status":{"shape":"LicenseStatus"},
    "ClientToken":{"shape":"ClientToken"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},

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```

    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{"
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{"
  "type":"structure",
  "members":{"
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{"
  "type":"structure",
  "required":["Begin"],
  "members":{"
    "Begin":{"shape":"ISO8601DateTime"},
    "End":{"shape":"ISO8601DateTime"}
  }
},
"DeleteGrantRequest":{"
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{"
    "GrantArn":{"shape":"Arn"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"}
  }
},
"DeleteGrantResponse":{"

```

```

"type":"structure",
"members":{
  "GrantArn":{"shape":"Arn"},
  "Status":{"shape":"GrantStatus"},
  "Version":{"shape":"String"}
}
},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
  "LicenseConfigurationArn":{"shape":"String"}
}
},
"DeleteLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
  "LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"DeleteLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseRequest":{
"type":"structure",
"required":[
  "LicenseArn",
  "SourceVersion"
],
"members":{
  "LicenseArn":{"shape":"Arn"},
  "SourceVersion":{"shape":"String"}
}
},
"DeleteLicenseResponse":{
"type":"structure",
"members":{
  "Status":{"shape":"LicenseDeletionStatus"},
  "DeletionDate":{"shape":"ISO8601DateTime"}
}

```

```

    }
  },
  "DeleteTokenRequest":{
    "type":"structure",
    "required":["TokenId"],
    "members":{
      "TokenId":{"shape":"String"}
    }
  },
  "DeleteTokenResponse":{
    "type":"structure",
    "members":{
    }
  },
  "DigitalSignatureMethod":{
    "type":"string",
    "enum":["JWT_PS384"]
  },
  "Entitlement":{
    "type":"structure",
    "required":[
      "Name",
      "Unit"
    ],
    "members":{
      "Name":{"shape":"String"},
      "Value":{"shape":"String"},
      "MaxCount":{"shape":"Long"},
      "Overage":{"shape":"BoxBoolean"},
      "Unit":{"shape":"EntitlementUnit"},
      "AllowCheckIn":{"shape":"BoxBoolean"}
    }
  },
  "EntitlementData":{
    "type":"structure",
    "required":[
      "Name",
      "Unit"
    ],
    "members":{
      "Name":{"shape":"String"},
      "Value":{"shape":"String"},
      "Unit":{"shape":"EntitlementDataUnit"}
    }
  },
  "EntitlementDataList":{
    "type":"list",
    "member":{"shape":"EntitlementData"}
  }

```

```

},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",

```



```

    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",

"Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "ConsumedValue":{"shape":"String"},
    "MaxCount":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{

```

```

"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
  "LicenseConsumptionToken":{"shape":"String"},
  "DryRun":{"shape":"Boolean"}
}
},
"ExtendLicenseConsumptionResponse":{
"type":"structure",
"members":{
  "LicenseConsumptionToken":{"shape":"String"},
  "Expiration":{"shape":"ISO8601DateTime"}
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
  "Message":{"shape":"Message"},
  "ErrorCode":{"shape":"String"}
},
"exception":true
},
"Filter":{
"type":"structure",
"members":{
  "Name":{"shape":"FilterName"},
  "Values":{"shape":"FilterValues"}
}
},
"FilterLimitExceededException":{
"type":"structure",
"members":{
  "Message":{"shape":"Message"}
},
"exception":true
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
"type":"list",
"member":{"shape":"FilterValue"}
},
"Filters":{
"type":"list",

```

```

"member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{"
  "type":"structure",
  "required":["Token"],
  "members":{"
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{"
  "type":"structure",
  "members":{"
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{"
  "type":"structure",
  "required":["GrantArn"],
  "members":{"
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetGrantResponse":{"
  "type":"structure",
  "members":{"
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{"
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"GetLicenseConfigurationResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},

```

```

    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "Tags":{"shape":"TagList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"GetLicenseConversionTaskRequest":{"
  "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{"
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"GetLicenseConversionTaskResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "StatusMessage":{"shape":"String"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"GetLicenseManagerReportGeneratorRequest":{"
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{"
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"GetLicenseManagerReportGeneratorResponse":{"
  "type":"structure",
  "members":{"
    "ReportGenerator":{"shape":"ReportGenerator"}
  }
},
"GetLicenseRequest":{"
  "type":"structure",
  "required":["LicenseArn"],

```

```

"members":{
  "LicenseArn":{"shape":"Arn"},
  "Version":{"shape":"String"}
}
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",

```

```

    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"}
  }
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},

```

```

    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"},
    "ReceivedMetadata":{"shape":"ReceivedMetadata"}
  }
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]||1-2)[0-9]T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(?:Z|[-+](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$)"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":{

```

```

    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"}
  }
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
  }
},
"LicenseConfiguration":{
  "type":"structure",

```



```

"members":{
  "LicenseConfigurationId":{"shape":"String"},
  "LicenseConfigurationArn":{"shape":"String"},
  "Name":{"shape":"String"},
  "Description":{"shape":"String"},
  "LicenseCountingType":{"shape":"LicenseCountingType"},
  "LicenseRules":{"shape":"StringList"},
  "LicenseCount":{"shape":"BoxLong"},
  "LicenseCountHardLimit":{"shape":"BoxBoolean"},
  "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
  "ConsumedLicenses":{"shape":"BoxLong"},
  "Status":{"shape":"String"},
  "OwnerAccountId":{"shape":"String"},
  "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
  "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
  "ProductInformationList":{"shape":"ProductInformationList"},
  "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
}
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},

```

```

    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",

  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",

```

```

"member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{"
"type":"string",
"enum":[
"vCPU",
"Instance",
"Core",
"Socket"
]
},
"LicenseDeletionStatus":{"
"type":"string",
"enum":[
"PENDING_DELETE",
"DELETED"
]
},
"LicenseList":{"
"type":"list",
"member":{"shape":"License"}
},
"LicenseOperationFailure":{"
"type":"structure",
"members":{"
"ResourceArn":{"shape":"String"},
"ResourceType":{"shape":"ResourceType"},
"ErrorMessage":{"shape":"String"},
"FailureTime":{"shape":"DateTime"},
"OperationName":{"shape":"String"},
"ResourceOwnerId":{"shape":"String"},
"OperationRequestedBy":{"shape":"String"},
"MetadataList":{"shape":"MetadataList"}
}
},
"LicenseOperationFailureList":{"
"type":"list",
"member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{"
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{"
"LicenseConfigurationArn":{"shape":"String"},
"AmiAssociationScope":{"shape":"String"}
}
},
"LicenseSpecifications":{"

```

```

"type":"list",
"member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{"
"type":"string",
"enum":[
"AVAILABLE",
"PENDING_AVAILABLE",
"DEACTIVATED",
"SUSPENDED",
"EXPIRED",
"PENDING_DELETE",
"DELETED"
]
},
"LicenseUsage":{"
"type":"structure",
"members":{"
"EntitlementUsages":{"shape":"EntitlementUsageList"}
}
},
"LicenseUsageException":{"
"type":"structure",
"members":{"
"Message":{"shape":"Message"}
},
"exception":true
},
>ListAssociationsForLicenseConfigurationRequest":{"
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{"
"LicenseConfigurationArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
}
},
>ListAssociationsForLicenseConfigurationResponse":{"
"type":"structure",
"members":{"
"LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
"NextToken":{"shape":"String"}
}
},
>ListDistributedGrantsRequest":{"
"type":"structure",
"members":{"
"GrantArns":{"shape":"ArnList"},

```

```

    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListDistributedGrantsResponse":{"
  "type":"structure",
  "members":{"
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
>ListFailuresForLicenseConfigurationOperationsRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{"
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
>ListFailuresForLicenseConfigurationOperationsResponse":{"
  "type":"structure",
  "members":{"
    "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseConfigurationsRequest":{"
  "type":"structure",
  "members":{"
    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
>ListLicenseConfigurationsResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseConversionTasksRequest":{"
  "type":"structure",
  "members":{"
    "NextToken":{"shape":"String"},

```

```

    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
  }
},
>ListLicenseConversionTasksResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseManagerReportGeneratorsRequest":{"
  "type":"structure",
  "members":{"
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
>ListLicenseManagerReportGeneratorsResponse":{"
  "type":"structure",
  "members":{"
    "ReportGenerators":{"shape":"ReportGeneratorList"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseSpecificationsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseSpecificationsForResourceResponse":{"
  "type":"structure",
  "members":{"
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
},
>ListLicenseVersionsRequest":{"
  "type":"structure",
  "required":["LicenseArn"],
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},

```

```

    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},

```

```

    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{"
  "type":"structure",
  "members":{"
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{"
  "type":"structure",
  "members":{"
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{"
  "type":"structure",
  "members":{"
    "ResourceInventoryList":{"shape":"ResourceInventoryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{"
  "type":"structure",
  "members":{"
    "Tags":{"shape":"TagList"}
  }
},
"ListTokensRequest":{"
  "type":"structure",
  "members":{"
    "TokenIds":{"shape":"StringList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListTokensResponse":{"

```



```

"type":"structure",
"members":{
  "Tokens":{"shape":"TokenList"},
  "NextToken":{"shape":"String"}
}
},
>ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
  "LicenseConfigurationArn":{"shape":"String"},
  "MaxResults":{"shape":"BoxInteger"},
  "NextToken":{"shape":"String"},
  "Filters":{"shape":"Filters"}
}
},
>ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
  "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
  "NextToken":{"shape":"String"}
}
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
"type":"structure",
"members":{
  "ResourceType":{"shape":"ResourceType"},
  "AssociationCount":{"shape":"BoxLong"}
}
},
"ManagedResourceSummaryList":{
"type":"list",
"member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
"type":"integer",
"max":100,
"min":1
},
"MaxSize3StringList":{
"type":"list",
"member":{"shape":"String"},
"max":3
},
"Message":{"type":"string"},
"Metadata":{

```

```

"type":"structure",
"members":{
  "Name":{"shape":"String"},
  "Value":{"shape":"String"}
}
},
"MetadataList":{"
"type":"list",
"member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{"
"type":"structure",
"members":{
  "Message":{"shape":"Message"}
},
"exception":true
},
"OrganizationConfiguration":{"
"type":"structure",
"required":["EnableIntegration"],
"members":{
  "EnableIntegration":{"shape":"Boolean"}
}
},
"PrincipalArnList":{"
"type":"list",
"member":{"shape":"Arn"},
"max":1,
"min":1
},
"ProductInformation":{"
"type":"structure",
"required":[
  "ResourceType",
  "ProductInformationFilterList"
],
"members":{
  "ResourceType":{"shape":"String"},
  "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
}
},
"ProductInformationFilter":{"
"type":"structure",
"required":[
  "ProductInformationFilterName",
  "ProductInformationFilterComparator"
],
"members":{

```

```

    "ProductInformationFilterName":{"shape":"String"},
    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
}

```

```

},
"RedirectException":{
  "type":"structure",
"members":{
  "Location":{"shape":"Location"},
  "Message":{"shape":"Message"}
},
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{

```

```

"type":"string",
"enum":[
  "DAY",
  "WEEK",
  "MONTH"
]
},
"ReportGenerator":{
"type":"structure",
"members":{
  "ReportGeneratorName":{"shape":"String"},
  "ReportType":{"shape":"ReportTypeList"},
  "ReportContext":{"shape":"ReportContext"},
  "ReportFrequency":{"shape":"ReportFrequency"},
  "LicenseManagerReportGeneratorArn":{"shape":"String"},
  "LastRunStatus":{"shape":"String"},
  "LastRunFailureReason":{"shape":"String"},
  "LastReportGenerationTime":{"shape":"String"},
  "ReportCreatorAccount":{"shape":"String"},
  "Description":{"shape":"String"},
  "S3Location":{"shape":"S3Location"},
  "CreateTime":{"shape":"String"},
  "Tags":{"shape":"TagList"}
}
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[
  "LicenseConfigurationSummaryReport",
  "LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{
"type":"structure",
"members":{

```

```

    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{"shape":"String"},
    "keyPrefix":{"shape":"String"}
  }
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
},

```

```

    "exception":true,
    "fault":true
  },
  "SignedToken":{
    "type":"string",
    "min":4096
  },
  "StatusReasonMessage":{
    "type":"string",
    "max":400,
    "pattern":"[\\s\\S]+"
  },
  "String":{"type":"string"},
  "StringList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "Tag":{
    "type":"structure",
    "members":{
      "Key":{"shape":"String"},
      "Value":{"shape":"String"}
    }
  },
  "TagKeyList":{
    "type":"list",

    "member":{"shape":"String"}
  },
  "TagList":{
    "type":"list",
    "member":{"shape":"Tag"}
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "Tags"
    ],
    "members":{
      "ResourceArn":{"shape":"String"},
      "Tags":{"shape":"TagList"}
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
  }
}

```

```

},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
}

```



```

},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",

```

```

"required":["ResourceArn"],
"members":{
  "ResourceArn":{"shape":"String"},
  "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
  "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
  }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
  }
},
"UsageOperation":{
  "type":"string",
  "max":50
},
"ValidationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
}
}
}

```

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```
{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-05-10",
    "endpointPrefix":"license-manager-user-subscriptions",
    "jsonVersion":"1.1",
    "protocol":"rest-json",
    "serviceFullName":"AWS License Manager User Subscriptions",
    "serviceId":"License Manager User Subscriptions",
    "signatureVersion":"v4",
    "signingName":"license-manager-user-subscriptions",
    "uid":"license-manager-user-subscriptions-2018-05-10"
  },
  "operations":{
    "AssociateUser":{
      "name":"AssociateUser",
      "http":{
        "method":"POST",
        "requestUri":"/user/AssociateUser",
        "responseCode":200
      },
    },
    "input":{"shape":"AssociateUserRequest"},
    "output":{"shape":"AssociateUserResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerErrorException"},
    ],
  },
}
```

```

    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"DeregisterIdentityProvider":{
  "name":"DeregisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterIdentityProviderRequest"},
  "output":{"shape":"DeregisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"DisassociateUser":{
  "name":"DisassociateUser",
  "http":{
    "method":"POST",
    "requestUri":"/user/DisassociateUser",
    "responseCode":200
  },
  "input":{"shape":"DisassociateUserRequest"},
  "output":{"shape":"DisassociateUserResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
>ListIdentityProviders":{
  "name":"ListIdentityProviders",
  "http":{

```

```

    "method": "POST",
    "requestUri": "/identity-provider/ListIdentityProviders",
    "responseCode": 200
  },
  "input": { "shape": "ListIdentityProvidersRequest" },
  "output": { "shape": "ListIdentityProvidersResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "AccessDeniedException" }
  ]
},
"ListInstances": {
  "name": "ListInstances",
  "http": {
    "method": "POST",
    "requestUri": "/instance/ListInstances",
    "responseCode": 200
  },
  "input": { "shape": "ListInstancesRequest" },
  "output": { "shape": "ListInstancesResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },
    { "shape": "ThrottlingException" },
    { "shape": "InternalServerError" },
    { "shape": "ResourceNotFoundException" },
    { "shape": "AccessDeniedException" }
  ]
},
"ListProductSubscriptions": {
  "name": "ListProductSubscriptions",
  "http": {
    "method": "POST",
    "requestUri": "/user/ListProductSubscriptions",
    "responseCode": 200
  },
  "input": { "shape": "ListProductSubscriptionsRequest" },
  "output": { "shape": "ListProductSubscriptionsResponse" },
  "errors": [
    { "shape": "ServiceQuotaExceededException" },
    { "shape": "ConflictException" },
    { "shape": "ValidationException" },

```

```

    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{

```

```

    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},

  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"StopProductSubscription":{
  "name":"StopProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},

    {"shape":"AccessDeniedException"}
  ]
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",

```

```

"members":{
  "DirectoryId":{"shape":"String"}
}
},
"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
},

```



```

"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"DisassociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"DisassociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{"shape":"String"},
    "Operation":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
  },
  "union":true
},
"IdentityProviderSummary":{

```

```

"type":"structure",
"required":[
  "IdentityProvider",
  "Product",
  "Status"
],
"members":{
  "FailureMessage":{"shape":"String"},
  "IdentityProvider":{"shape":"IdentityProvider"},
  "Product":{"shape":"String"},
  "Status":{"shape":"String"}
}
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
    "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{"shape":"String"},
    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},

```

```

    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{"shape":"InstanceSummaryList"},
    "NextToken":{"shape":"String"}
  }
}

```

```

    }
  },
  "ListProductSubscriptionsRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
    ],
    "members":{
      "Filters":{"shape":"FilterList"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Product":{"shape":"String"}
    }
  },
  "ListProductSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{"shape":"String"},
      "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
    }
  },
  "ListUserAssociationsRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "InstanceId"
    ],
    "members":{
      "Filters":{"shape":"FilterList"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListUserAssociationsResponse":{
    "type":"structure",
    "members":{
      "InstanceUserSummaries":{"shape":"InstanceUserSummaryList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ProductUserSummary":{
    "type":"structure",
    "required":[
      "IdentityProvider",

```

```

    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "SubscriptionEndDate":{"shape":"String"},
    "SubscriptionStartDate":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "error":{
    "statusCode":404,
    "senderFault":true
  },
  "exception":true
},

```

```

"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
}

```

```

},
"String":{"type":"string"},
"StringList":{"
  "type":"list",
  "member":{"shape":"String"}
},
"ThrottlingException":{"
  "type":"structure",
  "members":{"
    "message":{"shape":"String"}
  },
  "exception":true
},
"ValidationException":{"
  "type":"structure",
  "members":{"
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}
{
"version": "2.0",
"service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
"operations": {
  "AcceptGrant": "<p>Accepts the specified grant.</p>",
  "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
  "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
  "CheckoutLicense": "<p>Checks out the specified license.</p>",
  "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts.</p>",
  "CreateGrantVersion": "<p>Creates a new version of the specified grant.</p>",
  "CreateLicense": "<p>Creates a license.</p>",
  "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",
  "CreateLicenseConversionTaskForResource": "<p>Creates a new license conversion task.</p>",
  "CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",
  "CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",
  "CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",
  "DeleteGrant": "<p>Deletes the specified grant.</p>",

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"DeleteLicense": "<p>Deletes the specified license.</p>",

"DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",

"DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>",

"DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",

"ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",

"GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",

"GetGrant": "<p>Gets detailed information about the specified grant.</p>",

"GetLicense": "<p>Gets detailed information about the specified license.</p>",

"GetLicenseConfiguration": "<p>Gets detailed information about the specified license configuration.</p>",

"GetLicenseConversionTask": "<p>Gets information about the specified license type conversion task.</p>",

"GetLicenseManagerReportGenerator": "<p>Gets information about the specified report generator.</p>",

"GetLicenseUsage": "<p>Gets detailed information about the usage of the specified license.</p>",

"GetServiceSettings": "<p>Gets the License Manager settings for the current Region.</p>",

"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>",

"ListDistributedGrants": "<p>Lists the grants distributed for the specified license.</p>",

"ListFailuresForLicenseConfigurationOperations": "<p>Lists the license configuration operations that failed.</p>",

"ListLicenseConfigurations": "<p>Lists the license configurations for your account.</p>",

"ListLicenseConversionTasks": "<p>Lists the license type conversion tasks for your account.</p>",

"ListLicenseManagerReportGenerators": "<p>Lists the report generators for your account.</p>",

"ListLicenseSpecificationsForResource": "<p>Describes the license configurations for the specified resource.</p>",

"ListLicenseVersions": "<p>Lists all versions of the specified license.</p>",

"ListLicenses": "<p>Lists the licenses for your account.</p>",

"ListReceivedGrants": "<p>Lists grants that are received but not accepted.</p>",

"ListReceivedLicenses": "<p>Lists received licenses.</p>",

"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",

"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",

"ListTokens": "<p>Lists your tokens.</p>",

"ListUsageForLicenseConfiguration": "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",

"RejectGrant": "<p>Rejects the specified grant.</p>",

"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",

"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",

"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",

"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",

"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the

specified Amazon Web Services resource.

You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.

```
"UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"
},
"shapes": {
  "AcceptGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "AcceptGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "AccessDeniedException": {
    "base": "<p>Access to resource denied.</p>",
    "refs": {
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
      "CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
      "Grant$GrantedOperations":
"<p>Granted operations.</p>",
      "ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
    }
  },
  "Arn": {
    "base": null,
    "refs": {
      "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
      "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
      "ArnList$member": null,
      "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The
license must use the borrow consumption configuration.</p>",
      "CheckoutBorrowLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",

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    "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
    "CreateLicenseConversionTaskForResourceRequest$ResourceArn":
    "<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
    "CreateLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "CreateLicenseVersionResponse$LicenseArn": "<p>License ARN.</p>",
    "CreateTokenRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped
to the aud claim of the JWT token.</p>",
    "DeleteGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "DeleteGrantResponse$GrantArn": "<p>Grant ARN.</p>",
    "DeleteLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "GetLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "GetLicenseUsageRequest$LicenseArn":
    "<p>Amazon Resource Name (ARN) of the license.</p>",
    "Grant$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "Grant$ParentArn": "<p>Parent ARN.</p>",
    "Grant$LicenseArn": "<p>License ARN.</p>",
    "Grant$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",
    "GrantedLicense$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "License$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "ListLicenseVersionsRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
    "PrincipalArnList$member": null,
    "RejectGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
    "RejectGrantResponse$GrantArn": "<p>Grant ARN.</p>"
  }
},
"ArnList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. License Manager does not check whether the
roles are in use.</p>",
    "ListDistributedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
    "ListLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
    "ListReceivedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
    "ListReceivedLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
    "ReportContext$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration
that this generator reports on.</p>",
    "TokenData$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
  }
},
"AuthorizationException": {
  "base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the
IAM policy associated with this account.</p>",
  "refs": {

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},
"AutomatedDiscoveryInformation": {
  "base": "<p>Describes automated
discovery.</p>",
  "refs": {
    "GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery
information.</p>",
    "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
  }
},
"Boolean": {
  "base": null,
  "refs": {
    "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the
action, without actually making the request. Provides an error response if you do not have the required
permissions.</p>",
    "OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
  }
},
"BorrowConfiguration": {
  "base": "<p>Details about a borrow configuration.</p>",
  "refs": {
    "ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
  }
},
"BoxBoolean": {
  "base": null,
  "refs": {
    "BorrowConfiguration$AllowEarlyCheckIn":
"<p>Indicates whether early check-ins are allowed.</p>",
    "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Indicates whether hard or soft license
enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",
    "CreateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
    "Entitlement$Overage": "<p>Indicates whether overages are allowed.</p>",
    "Entitlement$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",
    "GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a
hard limit.</p>",
    "GetLicenseConfigurationResponse$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
    "GetServiceSettingsResponse$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account
discovery is enabled.</p>",
    "LicenseConfiguration$LicenseCountHardLimit":
"<p>Number of available licenses as a hard limit.</p>",
    "LicenseConfiguration$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software
is uninstalled.</p>",
    "UpdateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>New hard limit of the number of
available licenses.</p>",

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"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": "<p>Activates cross-account
discovery.</p>"
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in
minutes.</p>",
>ListAssociationsForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in
a single call.</p>",
>ListFailuresForLicenseConfigurationOperationsRequest$MaxResults":
"<p>Maximum number of results to return in a single call.</p>",
>ListLicenseConfigurationsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
>ListLicenseConversionTasksRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
>ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
>ListResourceInventoryRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
>ListUsageForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration,
in minutes.</p>"
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
"CreateLicenseConfigurationRequest$LicenseCount":
"<p>Number of licenses managed by the license configuration.</p>",
"GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
"GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
"LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
"LicenseConfiguration$ConsumedLicenses": "<p>Number of licenses consumed. </p>",
"LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
"ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
"UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {
}
}

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},
"CheckInLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutType": {
  "base": null,
  "refs": {
    "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
    "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
  }
},
"ClientRequestToken": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
},
"ClientToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
    "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the

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idempotency of the request.</p>",
  "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
  "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
the idempotency of the request.</p>",
  "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
  "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
the idempotency of the request.</p>",
  "CreateTokenRequest$ClientToken":
"<p>Idempotency token, valid for 10 minutes.</p>"
}
},
"ConflictException": {
  "base": "<p>There was a conflict processing the request. Try your request again.</p>",
  "refs": {
  }
},
"ConsumedLicenseSummary": {
  "base": "<p>Details about license consumption.</p>",
  "refs": {
    "ConsumedLicenseSummaryList$member": null
  }
},
"ConsumedLicenseSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses
consumed by resources.</p>",
    "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
resources.</p>"
  }
},
"ConsumptionConfiguration": {
  "base": "<p>Details about a consumption configuration.</p>",
  "refs": {
    "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
Choose a provisional configuration
for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>",
    "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the
license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow
configuration for workloads with offline usage.</p>",
    "GrantedLicense$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>",
    "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
  }
}
},
"CreateGrantRequest": {

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"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,
"refs": {
}
},
"CreateGrantVersionRequest": {
"base": null,
"refs": {
}
},
"CreateGrantVersionResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationRequest": {
"base":
null,
"refs": {
}
},
"CreateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
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    }
  },
  "CreateLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse":
  {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was
started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license
type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was
completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
with the resource.</p>",
      "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially
associated with the resource.</p>",
      "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",

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    "LicenseConversionTask$LicenseConversionTime":
    "<p>The time the usage operation value of the resource was changed.</p>",
    "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
    "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
  }
},
"DatetimeRange": {
  "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
  "refs": {
    "CreateLicenseRequest$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>",
    "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
    "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
    "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  }
},
>DeleteGrantRequest": {
  "base": null,
  "refs": {
  }
},
>DeleteGrantResponse": {
  "base": null,
  "refs": {
  }
},
>DeleteLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
>DeleteLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
>DeleteLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
>DeleteLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
}

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},
"DeleteLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DigitalSignatureMethod": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS)
algorithm PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518
Digital Signature with RSASSA-PSS</a>.</p>"
  }
},
"Entitlement": {
  "base": "<p>Describes a resource entitled for use with a license.</p>",
  "refs": {
    "EntitlementList$member": null
  }
},
"EntitlementData": {
  "base": "<p>Data associated with an entitlement resource.</p>",
  "refs": {
    "EntitlementDataList$member": null
  }
},
"EntitlementDataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not
supported.</p>",
    "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",

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    "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
  }
},
"EntitlementDataUnit":
{
  "base": null,
  "refs": {
    "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
    "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
  }
},
"EntitlementList": {
  "base": null,
  "refs": {
    "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
    "GrantedLicense$Entitlements": "<p>License entitlements.</p>",
    "License$Entitlements": "<p>License entitlements.</p>"
  }
},
"EntitlementNotAllowedException": {
  "base": "<p>The entitlement is not allowed.</p>",
  "refs": {
  }
},
"EntitlementUnit": {
  "base": null,
  "refs": {
    "Entitlement$Unit": "<p>Entitlement unit.</p>"
  }
},
"EntitlementUsage": {
  "base": "<p>Usage associated with an entitlement resource.</p>",
  "refs": {
    "EntitlementUsageList$member": null
  }
},
"EntitlementUsageList": {
  "base": null,
  "refs": {
    "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
  }
},
"ExtendLicenseConsumptionRequest": {
  "base": null,
  "refs": {
  }
}

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},
"ExtendLicenseConsumptionResponse": {
  "base": null,
  "refs": {
  }
},
"FailedDependencyException": {
  "base": "<p>A dependency required to run the API is missing.</p>",
  "refs": {
  }
},
"Filter": {
  "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
  "refs": {
    "FilterList$member": null,
    "Filters$member": null
  }
},
"FilterLimitExceededException": {
  "base": "<p>The request uses too many filters or too many filter values.</p>",
  "refs": {
  }
},
"FilterList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
    "ListLicenseManagerReportGeneratorsRequest$Filters": "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p> <code>LicenseConfigurationArn</code> </p> </li> </ul>",
    "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>",
    "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p> <code>GranterAccountId</code> </p> </li> </ul>",
    "ListReceivedLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>IssuerName</code> </p> </li> <li> <p> <code>Beneficiary</code> </p> </li> </ul>",
    "ListTokensRequest$Filters": "<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p> <code>LicenseArns</code> </p> </li> </ul>"
  }
},

```

```

"FilterName": {
  "base": null,
  "refs": {
    "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
  }
},
"FilterValue": {

"base": null,
"refs": {
  "FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
  "Filter$Values": "<p>Filter values. Filter values are case-sensitive.</p>"
}
},
"Filters": {
"base": null,
"refs": {
  "ListLicenseConfigurationsRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>",
  "ListLicenseConversionTasksRequest$Filters": "<p> Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. </p>",
  "ListUsageForLicenseConfigurationRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
}
},
"GetAccessTokenRequest": {
"base": null,
"refs": {
}
}

```

```
},
"GetAccessTokenResponse": {
  "base": null,
  "refs": {
  }
},
"GetGrantRequest": {
  "base": null,
  "refs": {
  }
},
"GetGrantResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConversionTaskRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConversionTaskResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseRequest": {
  "base": null,
```

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"refs": {
  }
},
"GetLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseUsageRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseUsageResponse": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"Grant": {
  "base": "<p>Describes a grant.</p>",
  "refs": {
    "GetGrantResponse$Grant": "<p>Grant details.</p>",
    "GrantList$member": null
  }
},
"GrantList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
    "ListReceivedGrantsResponse$Grants": "<p>Received grant details.</p>"
  }
},
"GrantStatus": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Status": "<p>Grant status.</p>",
    "CreateGrantResponse$Status":

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"<p>Grant status.</p>",
  "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
  "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
  "DeleteGrantResponse$Status": "<p>Grant status.</p>",
  "Grant$GrantStatus": "<p>Grant status.</p>",
  "RejectGrantResponse$Status": "<p>Grant status.</p>"
}
},
"GrantedLicense": {
  "base": "<p>Describes a license that is granted to a grantee.</p>",
  "refs": {
    "GrantedLicenseList$member": null
  }
},
"GrantedLicenseList": {
  "base": null,
  "refs": {
    "ListReceivedLicensesResponse$Licenses": "<p>Received license details.</p>"
  }
},
"ISO8601DateTime": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",

    "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
    "DatetimeRange$Begin": "<p>Start of the time range.</p>",
    "DatetimeRange$End": "<p>End of the time range.</p>",
    "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
    "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption expires.</p>",
    "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
    "License$CreateTime": "<p>License creation time.</p>",
    "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
  }
},
"Integer": {
  "base": null,
  "refs": {
    "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>",

    "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
  }
}

```



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    }
  },
  "InvalidParameterValueException": {
    "base": "<p>One or more parameter values are not valid.</p>",
    "refs": {
    }
  },
  "InvalidResourceStateException": {
    "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
    "refs": {
    }
  },
  "InventoryFilter": {
    "base": "<p>An inventory filter.</p>",
    "refs": {
      "InventoryFilterList$member": null
    }
  },
  "InventoryFilterCondition": {
    "base": null,
    "refs": {
      "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
    }
  },
  "InventoryFilterList": {
    "base": null,
    "refs": {
      "ListResourceInventoryRequest$Filters": "<p>Filters
to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p>
<code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> |
<code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the
resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p>
<code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>
</li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of a tag assigned to the resource.
Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
  }
}

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    "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
    "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
  }
},
"IssuerDetails": {
  "base": "<p>Details associated with the issuer of a license.</p>",
  "refs": {
    "GrantedLicense$Issuer": "<p>Granted license issuer.</p>",
    "License$Issuer": "<p>License issuer.</p>"
  }
},
"License": {
  "base": "<p>Software license that is managed in License Manager.</p>",
  "refs": {
    "GetLicenseResponse$License": "<p>License details.</p>",
    "LicenseList$member": null
  }
},
"LicenseConfiguration":
{
  "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
  "refs": {
    "LicenseConfigurations$member": null
  }
},
"LicenseConfigurationAssociation": {
  "base": "<p>Describes an association with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationAssociations$member": null
  }
},
"LicenseConfigurationAssociations": {
  "base": null,
  "refs": {
    "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information about the associations for the license configuration.</p>"
  }
},
"LicenseConfigurationStatus": {
  "base": null,
  "refs": {
    "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration.</p>"
  }
}

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},
"LicenseConfigurationUsage": {
  "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationUsageList$member": null
  }
},
"LicenseConfigurationUsageList": {
  "base": null,
  "refs": {
    "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the
license configurations.</p>"
  }
},
"LicenseConfigurations": {
  "base": null,
  "refs": {
    "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license
configurations.</p>"
  }
},
"LicenseConversionContext": {
  "base": "<p>Information about a license type conversion task.</p>",
  "refs": {
    "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies
the license type you are converting from. For the structure of the source license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the AWS CLI</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that
identifies the license type you are converting to. For the structure of the destination license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the AWS CLI</a> in the <i>License Manager User Guide</i>.</p>",
    "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type
converted from.</p>",
    "GetLicenseConversionTaskResponse$DestinationLicenseContext":
"<p>Information about the license type converted to.</p>",
    "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
converted from.</p>",
    "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion
task converted to.</p>"
  }
},
"LicenseConversionTask": {
  "base": "<p>Information about a license type conversion task.</p>",
  "refs": {
    "LicenseConversionTasks$member": null
  }
},

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"LicenseConversionTaskId": {
  "base": null,
  "refs": {
    "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId": "<p>The ID of the created
license type conversion task.</p>",
    "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to
retrieve information on.</p>",
    "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion
task.</p>",
    "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
  }
},
"LicenseConversionTaskStatus": {
  "base": null,
  "refs": {
    "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",
    "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
  }
},
"LicenseConversionTasks": {
  "base": null,
  "refs": {
    "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license
configuration tasks for your account.</p>"
  }
},
"LicenseCountingType": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
inventory.</p>",
    "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
counted.</p>",
    "LicenseConfiguration$LicenseCountingType":
"<p>Dimension to use to track the license inventory.</p>"
  }
},
"LicenseDeletionStatus": {
  "base": null,
  "refs": {
    "DeleteLicenseResponse$Status": "<p>License status.</p>"
  }
},
"LicenseList": {
  "base": null,
  "refs": {
    "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
    "ListLicensesResponse$Licenses": "<p>License details.</p>"
  }
}

```

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    }
  },
  "LicenseOperationFailure": {
    "base": "<p>Describes the failure of a license operation.</p>",
    "refs": {
      "LicenseOperationFailureList$member": null
    }
  },
  "LicenseOperationFailureList": {
    "base": null,
    "refs": {
      "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License configuration operations that failed.</p>"
    }
  },
  "LicenseSpecification": {
    "base": "<p>Details for associating a license configuration with a resource.</p>",
    "refs": {
      "LicenseSpecifications$member": null
    }
  },
  "LicenseSpecifications": {
    "base": null,
    "refs": {
      "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations associated with a resource.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license configurations to add.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license configurations to remove.</p>"
    }
  },
  "LicenseStatus": {
    "base": null,
    "refs": {
      "CreateLicenseResponse$Status": "<p>License status.</p>",
      "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
      "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
      "GrantedLicense$Status": "<p>Granted license status.</p>",
      "License$Status": "<p>License status.</p>"
    }
  },
  "LicenseUsage": {
    "base": "<p>Describes the entitlement usage associated with a license.</p>",
    "refs": {
      "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
    }
  }
}

```

```

    }
  },
  "LicenseUsageException": {
    "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsResponse": {
    "base": null,
    "refs": {
    }
  },

```

```
"ListLicenseConversionTasksRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseConversionTasksResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseManagerReportGeneratorsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseManagerReportGeneratorsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseSpecificationsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicenseVersionsRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicenseVersionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicensesResponse": {
  "base": null,
  "refs": {
  }
}
```

```
}
},
"ListReceivedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
  "base": null,
  "refs": {
  }
},
"ListTokensResponse": {
```



```

    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationRequest": {
    "base":
null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long": {
    "base": null,
    "refs": {
      "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
    }
  },
  "ManagedResourceSummary": {
    "base": "<p>Summary information about a managed resource.</p>",
    "refs": {
      "ManagedResourceSummaryList$member": null
    }
  },
  "ManagedResourceSummaryList": {
    "base": null,
    "refs": {
      "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed
resources.</p>",
      "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
    }
  },
  "MaxSize100": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$MaxResults":
"<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>"
    }
  }
}

```

```

"ListLicenseVersionsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
"ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
"ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
"ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
"ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
}
},
"MaxSize3StringList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token.</p>",
    "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT token.</p>",
    "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
  }
},
"Message": {
  "base": null,
  "refs": {
    "AccessDeniedException$Message": null,
    "AuthorizationException$Message": null,
    "ConflictException$Message": null,
    "EntitlementNotAllowedException$Message": null,
    "FailedDependencyException$Message": null,
    "FilterLimitExceededException$Message": null,
    "InvalidParameterValueException$Message": null,
    "InvalidResourceStateException$Message": null,
    "LicenseUsageException$Message": null,
    "NoEntitlementsAllowedException$Message": null,
    "RateLimitExceededException$Message": null,
    "RedirectException$Message": null,
    "ResourceLimitExceededException$Message": null,
    "ResourceNotFoundException$Message": null,
    "ServerInternalException$Message":
null,
    "UnsupportedDigitalSignatureMethodException$Message": null,
    "ValidationException$Message": null
  }
},
"Metadata": {
  "base": "<p>Describes key/value pairs.</p>",
  "refs": {
    "MetadataList$member": null
  }
},
"MetadataList": {
  "base": null,

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"refs": {
  "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
  "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
  "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
  "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
  "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
  "License$LicenseMetadata": "<p>License metadata.</p>",
  "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
}
},
"NoEntitlementsAllowedException":
{
  "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
  "refs": {
  }
},
"OrganizationConfiguration": {
  "base": "<p>Configuration information for Organizations.</p>",
  "refs": {
    "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>",
    "UpdateServiceSettingsRequest$OrganizationConfiguration": "<p>Enables integration with Organizations for cross-account discovery.</p>"
  }
},
"PrincipalArnList": {
  "base": null,
  "refs": {
    "CreateGrantRequest$Principals": "<p>The grant principals.</p>"
  }
},
"ProductInformation": {
  "base": "<p>Describes product information for a license configuration.</p>",
  "refs": {
    "ProductInformationList$member": null
  }
},
"ProductInformationFilter": {
  "base": "<p>Describes product information filters.</p>",
  "refs": {
    "ProductInformationFilterList$member": null
  }
},
"ProductInformationFilterList": {
  "base": null,
  "refs": {
    "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a

```

`ProductInformationFilterComparator` which is a logical operator, a `ProductInformationFilterName` which specifies the type of filter being declared, and a `ProductInformationFilterValue` that specifies the value to filter on. </p> <p>Accepted values for `ProductInformationFilterName` are listed here along with descriptions and valid options for `ProductInformationFilterComparator`. </p> <p>The following filters and are supported when the resource type is `SSM_MANAGED`:</p> <p> `Application Name` - The name of the application. Logical operator is `EQUALS`.</p> <p> `Application Publisher` - The publisher of the application. Logical operator is `EQUALS`.</p> <p> `Application Version` - The version of the application. Logical operator is `EQUALS`.</p> <p> `Platform Name` - The name of the platform. Logical operator is `EQUALS`.</p> <p> `Platform Type` - The platform type. Logical operator is `EQUALS`.</p> <p> `Tag:key` - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag:` following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key. </p> <p> `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.</p> <p> `License Included` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.</p> <p>The following filters and logical operators are supported when the resource type is `RDS`:</p> <p> `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.</p> <p> `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.</p>

```

    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList": "<p>Product information.</p>",
      "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
      "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
      "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
    }
  },
  "ProvisionalConfiguration": {
    "base": "<p>Details about a provisional configuration.</p>",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
    }
  },
  "RateLimitExceededException": {
    "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
    "refs": {

```

```

    }
  },
  "ReceivedMetadata": {
    "base": "<p>Metadata associated with received licenses and grants.</p>",
    "refs": {
      "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
    }
  },
  "ReceivedStatus": {
    "base": null,
    "refs": {
      "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
    }
  },
  "RedirectException": {
    "base": "<p>This is not the correct Region for the resource. Try again.</p>",
    "refs": {
    }
  },
  "RejectGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "RejectGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "RenewType": {
    "base": null,
    "refs": {
      "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
    }
  },
  "ReportContext": {
    "base": "<p>Details of the license configuration that this generator reports on.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
      "ReportGenerator$ReportContext":
"<p>License configuration type for this generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportContext": "<p>The report context.</p>"
    }
  },
  "ReportFrequency": {
    "base": "<p>Details about how frequently reports are generated.</p>",
    "refs": {
  }
}

```

```

    "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated. Reports can be generated daily, monthly, or weekly.</p>",
    "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated.</p>"
  }
},
"ReportFrequencyType": {
  "base": null,
  "refs": {
    "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or
monthly.</p>"
  }
},
"ReportGenerator": {
  "base": "<p>Describe the details of a report generator.</p>",
  "refs": {
    "GetLicenseManagerReportGeneratorResponse$ReportGenerator": "<p>A report generator that creates periodic
reports about your license configurations.</p>",
    "ReportGeneratorList$member": null
  }
},
"ReportGeneratorList": {
  "base": null,
  "refs": {
    "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
  }
},
"ReportGeneratorName": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
  }
},
"ReportType": {
  "base": null,
  "refs": {
    "ReportTypeList$member": null
  }
},
"ReportTypeList": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$Type":

```

"<p>Type of reports to generate. The following report types an be generated:</p> <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p> <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p> ",

"ReportGenerator\$ReportType": "<p>Type of reports that are generated.</p>",

"UpdateLicenseManagerReportGeneratorRequest\$Type": "<p>Type of reports to generate. The following report types are supported:</p> <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p> <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p> "

}

},

"ResourceInventory": {

"base": "<p>Details about a resource.</p>",

"refs": {

"ResourceInventoryList\$member": null

}

},

"ResourceInventoryList": {

"base": null,

"refs": {

"ListResourceInventoryResponse\$ResourceInventoryList": "<p>Information about the resources.</p>"

}

},

"ResourceLimitExceededException": {

"base": "<p>Your resource limits have been exceeded.</p>",

"refs": {

}

},

"ResourceNotFoundException": {

"base": "<p>The resource cannot be found.</p>",

"refs": {

}

},

"ResourceType": {

"base": null,

"refs": {

"ConsumedLicenseSummary\$ResourceType": "<p>Resource type of the resource consuming a license.</p>",

"LicenseConfigurationAssociation\$ResourceType": "<p>Type of server resource.</p>",

"LicenseConfigurationUsage\$ResourceType": "<p>Type of resource.</p>",

"LicenseOperationFailure\$ResourceType": "<p>Resource type.</p>",

"ManagedResourceSummary\$ResourceType": "<p>Type of resource associated with a license.</p>",

"ResourceInventory\$ResourceType":

"<p>Type of resource.</p>"

}

},

"S3Location": {

"base": "<p>Details of the S3 bucket that report generator reports are published to.</p>",

"refs": {

```

    "ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
  }
},
"ServerInternalException": {
  "base": "<p>The server experienced an internal error. Try again.</p>",
  "refs": {
  }
},
"SignedToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
    "CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
  }
},
"StatusReasonMessage": {
  "base": null,
  "refs": {
    "CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
    "DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
    "Grant$StatusReason": "<p>Grant status reason.</p>",
    "ReceivedMetadata$ReceivedStatusReason":
    "<p>Received status reason.</p>"
  }
},
"String": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Version": "<p>Grant version.</p>",
    "CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",
    "CheckoutLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the checkout license.</p>",
    "CreateGrantRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantRequest$HomeRegion": "<p>Home Region of the grant.</p>",
    "CreateGrantResponse$Version": "<p>Grant version.</p>",
    "CreateGrantVersionRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantVersionRequest$SourceVersion": "<p>Current version of the grant.</p>",
    "CreateGrantVersionResponse$Version": "<p>New version of the grant.</p>",

```


"CreateLicenseConfigurationRequest\$Name": "<p>Name of the license configuration.</p>",

"CreateLicenseConfigurationRequest\$Description": "<p>Description of the license configuration.</p>",

"CreateLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"CreateLicenseManagerReportGeneratorRequest\$Description":

"<p>Description of the report generator.</p>",

"CreateLicenseManagerReportGeneratorResponse\$LicenseManagerReportGeneratorArn": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>",

"CreateLicenseRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseRequest\$ProductSKU": "<p>Product SKU.</p>",

"CreateLicenseRequest\$HomeRegion": "<p>Home Region for the license.</p>",

"CreateLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CreateLicenseResponse\$Version": "<p>License version.</p>",

"CreateLicenseVersionRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseVersionRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseVersionRequest\$HomeRegion": "<p>Home Region of the license.</p>",

"CreateLicenseVersionRequest\$SourceVersion": "<p>Current version of the license.</p>",

"CreateLicenseVersionResponse\$Version":

"<p>New version of the license.</p>",

"CreateTokenResponse\$TokenId": "<p>Token ID.</p>",

"DeleteGrantRequest\$Version": "<p>Current version of the grant.</p>",

"DeleteGrantResponse\$Version": "<p>Grant version.</p>",

"DeleteLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",

"DeleteLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name":

"<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue": "<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn":

"<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",

"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$Name": "<p>Issuer name.</p>",

"IssuerDetails\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$KeyFingerprint": "<p>Issuer key fingerprint.</p>",

"License\$LicenseName": "<p>License name.</p>",

"License\$ProductName": "<p>Product name.</p>",

"License\$ProductSKU": "<p>Product SKU.</p>",

"License\$HomeRegion": "<p>Home Region of the license.</p>",

"License\$Beneficiary": "<p>License beneficiary.</p>",

"License\$Version": "<p>License version.</p>",

"LicenseConfiguration\$LicenseConfigurationId": "<p>Unique ID of the license configuration.</p>",

"LicenseConfiguration\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseConfiguration\$Name": "<p>Name of the license configuration.</p>",

"LicenseConfiguration\$Description": "<p>Description of the license configuration.</p>",

"LicenseConfiguration\$Status": "<p>Status of the license configuration.</p>",

"LicenseConfiguration\$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",

"LicenseConfigurationAssociation\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationAssociation\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>",

"LicenseConfigurationAssociation\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"LicenseConfigurationUsage\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationUsage\$ResourceStatus": "<p>Status of the resource.</p>",

"LicenseConfigurationUsage\$ResourceOwnerId": "<p>ID of the account that owns the resource.</p>",

"LicenseConversionTask\$ResourceArn": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>",

"LicenseConversionTask\$StatusMessage": "<p>The status message for the conversion task.</p>",

"LicenseOperationFailure\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseOperationFailure\$ErrorMessage": "<p>Error message.</p>",

"LicenseOperationFailure\$OperationName": "<p>Name of the operation.</p>",

"LicenseOperationFailure\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",

"LicenseOperationFailure\$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",

"LicenseSpecification\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseSpecification\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListAssociationsForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"MaxSize3StringList\$member": null,

"Metadata\$Name": "<p>The key name.</p>",

"Metadata\$Value": "<p>The value.</p>",

"ProductInformation\$ResourceType": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",

"ProductInformationFilter\$ProductInformationFilterName": "<p>Filter name.</p>",

"ProductInformationFilter\$ProductInformationFilterComparator": "<p>Logical operator.</p>",

"RejectGrantResponse\$Version": "<p>Grant version.</p>",

"ReportGenerator\$ReportGeneratorName": "<p>Name of the report generator.</p>",

"ReportGenerator\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"ReportGenerator\$LastRunStatus": "<p>Status of the last report generation attempt.</p>",

"ReportGenerator\$LastRunFailureReason": "<p>Failure message for the last report generation attempt.</p>",

"ReportGenerator\$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",

"ReportGenerator\$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the report generator.</p>",

"ReportGenerator\$Description": "<p>Description of the report generator.</p>",

"ReportGenerator\$CreateTime": "<p>Time the report was created.</p>",

"ResourceInventory\$ResourceId": "<p>ID of the resource.</p>",

"ResourceInventory\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"ResourceInventory\$Platform": "<p>Platform of the resource.</p>",

"ResourceInventory\$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",

"ResourceInventory\$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",

"S3Location\$bucket": "<p>Name of the S3 bucket reports are published to.</p>",

"S3Location\$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",

"StringList\$member": null,

"Tag\$Key": "<p>Tag key.</p>",

```

"Tag$Value": "<p>Tag value.</p>",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"TokenData$TokenId": "<p>Token ID.</p>",
"TokenData$TokenType": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>",
"TokenData$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
"TokenData$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>",
"UntagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
"UpdateLicenseConfigurationRequest$Name": "<p>New name of the license configuration.</p>",
"UpdateLicenseConfigurationRequest$Description": "<p>New description of the license configuration.</p>",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon
Resource Name (ARN) of the report generator to update.</p>",
"UpdateLicenseManagerReportGeneratorRequest$Description":
"<p>Description of the report generator.</p>",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the
Amazon Web Services resource.</p>",
"UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3
bucket where the License Manager information is stored.</p>",
"UpdateServiceSettingsRequest$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS
topic used for License Manager alerts.</p>"
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": "<p>License rules. The syntax is #name=value (for
example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li>
<p> <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p>
</li> <li> <p> <code>Instances</code> dimension: <code>allowedTenancy</code> |
<code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> <li>
<p> <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code>
dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> |
<code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </ul> <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are
<code>True</code> and <code>False</code>.</p>",
"GetLicenseConfigurationResponse$LicenseRules":

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```

"<p>License rules.</p>",
  "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
  "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the
license configurations.</p>",
  "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
  "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
  "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add
after you create a license configuration is licenseAffinityToHost.</p>"
}
},
"Tag": {
  "base": "<p>Details about a tag for a license configuration.</p>",
  "refs": {
    "TagList$member": null
  }
},
"TagKeyList": {
  "base": null,
  "refs": {
    "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
  }
},
"TagList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$Tags":
"<p>Tags to add to the license configuration.</p>",
    "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
    "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
    "ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
    "ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
    "TagResourceRequest$Tags": "<p>One or more tags.</p>"
  }
},
"TagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"TagResourceResponse": {
  "base": null,
  "refs": {
  }
},
"TokenData": {
  "base": "<p>Describes a token.</p>",
  "refs": {
    "TokenList$member": null
  }
}

```

```

    }
  },
  "TokenList": {
    "base": null,
    "refs": {
      "ListTokensResponse$Tokens": "<p>Received token details.</p>"
    }
  },
  "TokenString": {
    "base": null,
    "refs": {
      "CreateTokenResponse$Token":
"<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
    }
  },
  "TokenType": {
    "base": null,
    "refs": {
      "CreateTokenResponse$TokenType": "<p>Token type.</p>"
    }
  },
  "UnsupportedDigitalSignatureMethodException": {
    "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
    "refs": {
    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
}

```

```

"UpdateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs":
{
  }
},
"UpdateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseSpecificationsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"UsageOperation": {
  "base": null,
  "refs": {
    "LicenseConversionContext$UsageOperation": "<p>The Usage operation value that corresponds to the license
operation type you are converting your resource from. For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform </a> </p>"
  }
},
"ValidationException":
{
  "base": "<p>The provided input is not valid. Try your request again.</p>",
  "refs": {
  }
}
}

```



```

{
  "version": "2.0",
  "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a
per user subscription fee on Amazon EC2 instances.</p>",
  "operations": {
    "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p>",
    "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
    "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
    "ListIdentityProviders": "<p>Lists the identity providers for user-based subscriptions.</p>",
    "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
    "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
    "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
    "RegisterIdentityProvider": "<p>Registers an identity
provider for user-based subscriptions.</p>",
    "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p>",
    "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>"
  },
  "shapes": {
    "AccessDeniedException": {
      "base": "<p>You don't have sufficient access to perform this action.</p>",
      "refs": {
      }
    },
    "ActiveDirectoryIdentityProvider": {
      "base": "<p>Details about an Active Directory identity provider.</p>",
      "refs": {
        "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity
provider.</p>"
      }
    }
  },
  "AssociateUserRequest": {
    "base": null,
    "refs": {
    }
  },
  "AssociateUserResponse": {
    "base": null,
    "refs": {
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListIdentityProvidersRequest$MaxResults":
"<p>Maximum number of results to return in a single call.</p>",
      "ListInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  }
}

```

```

    "ListProductSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
    "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
  }
},
"ConflictException": {
  "base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
  "refs": {
  }
},
"DeregisterIdentityProviderRequest": {
  "base": null,
  "refs": {
  }
},
"DeregisterIdentityProviderResponse": {
  "base": null,
  "refs": {
  }
},
"DisassociateUserRequest": {
  "base": null,
  "refs": {
  }
},
"DisassociateUserResponse": {
  "base": null,
  "refs": {
  }
},
"Filter": {
  "base": "<p>A filter
name and value pair that is used to return more specific results from a describe operation. Filters can be used to
match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
  "refs": {
    "FilterList$member": null
  }
},
"FilterList": {
  "base": null,
  "refs": {
    "ListInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results to those that
match one or more sets of key-value pairs that you specify.</p>",
    "ListProductSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to
those that match one or more sets of key-value pairs that you specify.</p>",
    "ListUserAssociationsRequest$Filters": "<p>An array of structures that you can use to filter the results to those
that match one or more sets of key-value pairs that you specify.</p>"
  }
}

```

```

},
"IdentityProvider": {
  "base": "<p>Details about an identity provider.</p>",
  "refs": {
    "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
    "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "RegisterIdentityProviderRequest$IdentityProvider":
"<p>An object that specifies details for the identity provider.</p>",
    "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
    "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>"
  }
},
"IdentityProviderSummary": {
  "base": "<p>Describes an identity provider.</p>",
  "refs": {
    "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
    "IdentityProviderSummaryList$member": null,
    "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>"
  }
},
"IdentityProviderSummaryList": {
  "base": null,
  "refs": {
    "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata
that describes the list identity providers operation.</p>"
  }
},
"InstanceSummary": {
  "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "InstanceSummaryList$member": null
  }
},

```

```

"InstanceSummaryList": {
  "base": null,
  "refs": {
    "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
  }
},
"InstanceUserSummary": {
  "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user operation.</p>",
    "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user operation.</p>",
    "InstanceUserSummaryList$member": null
  }
},
"InstanceUserSummaryList": {
  "base": null,
  "refs": {
    "ListUserAssociationsResponse$InstanceUserSummaries":
"<p>Metadata that describes the list user association operation.</p>"
  }
},
"InternalServerError": {
  "base": "<p>An exception occurred with the service.</p>",
  "refs": {
  }
},
"ListIdentityProvidersRequest": {
  "base": null,
  "refs": {
  }
},
"ListIdentityProvidersResponse": {
  "base": null,
  "refs": {
  }
},
"ListInstancesRequest": {
  "base": null,
  "refs": {
  }
},
"ListInstancesResponse": {
  "base": null,
  "refs": {
  }
},

```

```

"ListProductSubscriptionsRequest": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsResponse": {
  "base": null,
  "refs": {
  }
},
"ProductUserSummary": {
  "base": "<p>The summary
of the user-based subscription products for a user.</p>",
  "refs": {
    "ProductUserSummaryList$member": null,
    "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>",
    "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>"
  }
},
"ProductUserSummaryList": {
  "base": null,
  "refs": {
    "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product
subscriptions operation.</p>"
  }
},
"RegisterIdentityProviderRequest": {
  "base": null,
  "refs": {
  }
},
"RegisterIdentityProviderResponse": {
  "base": null,
  "refs": {
  }
},

```

```

"ResourceNotFoundException": {
  "base": "<p>The resource couldn't be found.</p>",
  "refs": {
  }
},
"ServiceQuotaExceededException": {
  "base": "<p>The
request failed because a service quota is exceeded.</p>",
  "refs": {
  }
},
"StartProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StartProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"String": {
  "base": null,
  "refs": {
    "AccessDeniedException$message": null,
    "ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
    "AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",
    "AssociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "AssociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",
    "ConflictException$message":
null,
    "DeregisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
    "DisassociateUserRequest$Domain": "<p>The domain name of the user.</p>",
    "DisassociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
    "DisassociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",

```

"Filter\$Attribute": "<p>The name of an attribute to use as a filter.</p>",

"Filter\$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",

"Filter\$Value": "<p>Value of the filter.</p>",

"IdentityProviderSummary\$FailureMessage": "<p>The failure message associated with an identity provider.</p>",

"IdentityProviderSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"IdentityProviderSummary\$Status": "<p>The status of an identity provider.</p>",

"InstanceSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceSummary\$LastStatusCheckDate": "<p>The date of the last status check.</p>",

"InstanceSummary\$Status": "<p>The status of an EC2 instance resource.</p>",

"InstanceSummary\$StatusMessage": "<p>The status message for an EC2 instance.</p>",

"InstanceUserSummary\$AssociationDate": "<p>The date a user was associated with an EC2 instance.</p>",

"InstanceUserSummary\$DisassociationDate": "<p>The date a user was disassociated from an EC2 instance.</p>",

"InstanceUserSummary\$Domain": "<p>The domain name of the user.</p>",

"InstanceUserSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceUserSummary\$Status": "<p>The status of a user associated with an EC2 instance.</p>",

"InstanceUserSummary\$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",

"InstanceUserSummary\$Username": "<p>The user name from the identity provider for the user.</p>",

"InternalServerException\$message": null,

"ListIdentityProvidersRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListIdentityProvidersResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ListProductSubscriptionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"ListUserAssociationsRequest\$NextToken":

<p>Token for the next set of results.</p>",

"ListUserAssociationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ProductUserSummary\$Domain": "<p>The domain name of the user.</p>",

"ProductUserSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"ProductUserSummary\$Status": "<p>The status of a product for a user.</p>",

"ProductUserSummary\$StatusMessage": "<p>The status message for a product for a user.</p>",

"ProductUserSummary\$SubscriptionEndDate": "<p>The end date of a subscription.</p>",

"ProductUserSummary\$SubscriptionStartDate": "<p>The start date of a subscription.</p>",

"ProductUserSummary\$Username": "<p>The user name from the identity provider of the user.</p>",

"RegisterIdentityProviderRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ResourceNotFoundException\$message": null,

"ServiceQuotaExceededException\$message":

null,

"StartProductSubscriptionRequest\$Domain": "<p>The domain name of the user.</p>",

"StartProductSubscriptionRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"StartProductSubscriptionRequest\$Username": "<p>The user name from the identity provider of the user.</p>",

```

"StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StopProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
"StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
  "StringList$member": null,
  "ThrottlingException$message": null,
  "ValidationException$message": null
}
},
"StringList": {
  "base": null,
  "refs": {
    "InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
  }
},
"ThrottlingException": {
  "base": "<p>The
request was denied because of request throttling. Retry the request.</p>",
  "refs": {
  }
},
"ValidationException": {
  "base": "<p>A parameter is not valid.</p>",
  "refs": {
  }
}
}
}

```

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```
{  
"pagination": {
```

}
}

1.549 knex-ips-config-management 1.0

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

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package roles

```
import (  
    "errors"  
    "fmt"  
)  
  
// PermissionMode permission mode  
type PermissionMode string  
  
const (  
    // Create predefined permission mode, create permission  
    Create PermissionMode = "create"  
    // Read predefined permission mode, read permission  
    Read PermissionMode = "read"  
    // Update predefined permission mode, update permission  
    Update PermissionMode = "update"  
    // Delete predefined permission mode, deleted permission  
    Delete PermissionMode = "delete"  
    // CRUD predefined permission mode, create+read+update+delete permission  
    CRUD PermissionMode = "crud"  
)  
  
// ErrPermissionDenied no permission error  
var ErrPermissionDenied = errors.New("permission denied")  
  
// Permission a struct contains permission definitions  
type Permission struct {  
    Role      *Role  
    AllowedRoles map[PermissionMode][]string  
    DeniedRoles map[PermissionMode][]string  
}  
  
func includeRoles(roles []string, values []string) bool {  
    for _, role := range roles {  
        if role == Anyone {  
            return true  
        }  
  
        for  
        _, value := range values {  
            if value == role {  
                return true  
            }  
        }  
    }  
}
```

```

return false
}

// Concat concat two permissions into a new one
func (permission *Permission) Concat(newPermission *Permission) *Permission {
var result = Permission{
    Role:    Global,
    AllowedRoles: map[PermissionMode][]string{ },
    DeniedRoles: map[PermissionMode][]string{ },
}

var appendRoles = func(p *Permission) {
if p != nil {
    result.Role = p.Role

    for mode, roles := range p.DeniedRoles {
        result.DeniedRoles[mode] = append(result.DeniedRoles[mode], roles...)
    }

    for mode, roles := range p.AllowedRoles {
        result.AllowedRoles[mode] = append(result.AllowedRoles[mode], roles...)
    }
}
}

appendRoles(newPermission)
appendRoles(permission)
return &result
}

// Allow allows permission mode for roles
func (permission *Permission) Allow(mode PermissionMode, roles ...string) *Permission {
if mode == CRUD {
    return permission.Allow(Create, roles...).Allow(Update, roles...).Allow(Read,
roles...).Allow(Delete, roles...)
}

if permission.AllowedRoles[mode] == nil {
    permission.AllowedRoles[mode] = []string{ }
}
permission.AllowedRoles[mode] = append(permission.AllowedRoles[mode], roles...)
return permission
}

// Deny deny permission mode for roles
func (permission *Permission) Deny(mode PermissionMode, roles ...string) *Permission {
if mode == CRUD {
    return permission.Deny(Create, roles...).Deny(Update, roles...).Deny(Read, roles...).Deny(Delete, roles...)
}
}

```

```

}

if permission.DeniedRoles[mode] == nil {
    permission.DeniedRoles[mode] = []string{}
}
permission.DeniedRoles[mode] = append(permission.DeniedRoles[mode], roles...)
return permission
}

// HasPermission check roles has permission for mode or not
func (permission Permission) HasPermission(mode PermissionMode, roles ...interface{ }) bool {
    var roleNames []string
    for _, role := range roles {
        if r, ok := role.(string); ok {
            roleNames = append(roleNames, r)
        } else if roler, ok := role.(Roler);
        ok {
            roleNames = append(roleNames, roler.GetRoles()...)
        } else {
            fmt.Printf("invalid role %#v\n", role)
            return false
        }
    }

    if len(permission.DeniedRoles) != 0 {
        if DeniedRoles := permission.DeniedRoles[mode]; DeniedRoles != nil {
            if includeRoles(DeniedRoles, roleNames) {
                return false
            }
        }
    }

    // return true if haven't define allowed roles
    if len(permission.AllowedRoles) == 0 {
        return true
    }

    if AllowedRoles := permission.AllowedRoles[mode]; AllowedRoles != nil {
        if includeRoles(AllowedRoles, roleNames) {
            return true
        }
    }

    return false
}

```

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1.550 go-cache 2.1.0

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1.551 go-playground-validator 10.16.0

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1.552 go-yaml 2.1.0

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1.553 golang-snappy 0.0.0-20180814174437-776d5712da21

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1.554 pflag 0.0.0-20170130214245-9ff6c6923cff

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1.555 logrus 1.2.0

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1.556 tzdata 2024a-0+deb10u1

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