Open Source Used In NX-OS N9K 6.1(2) NX-OS 6.1(2)

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Tue, 26 Feb 2002 13:25:26 +1100

It can be downloaded from ftp://acl.bestbits.at/

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1.2 acl 2.2.51 :r5

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1.8 bash 4.2 :r6

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

   Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

   Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

   Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================

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1.11 bsd-ping 8.1 :r0

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1.12 busybox 1.21.1 :r0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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jseward@bzip.org
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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

1.16 chkconfig 1.3.58 :r2

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1.19 cracklib 2.8.18 :r5
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Version 2.1, February 1999

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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
GPL-2 ... it was a modified artistic license ... i didn't 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 isn't 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
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
> GPL-2 ... it was a modified artistic license ... i didnt notice the
license
> change until it was mentioned in the latest notes.

> 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

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
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 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
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.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.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 l91Gxtpr020623
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])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
1.20 cronie 1.4.11 :r0

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*/

@(#)bitstring.h 8.1 (Berkeley) 7/19/93

1.21 curl 7.28.1 :1.fc9

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

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

Libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.
GnuTLS  http://www.gnutils.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl  http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS     http://www.mozilla.org/projects/security/pki/nss/

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axTLS   http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.
Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.22 curl 7.32.0 :r0

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1.23 db 5.3.21 :r0

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This package was debianized by Sam Clegg <samo@debian.org> on Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

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1.24 dhcp 4.2.3-P2 :r0.1
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.25 diffutils 3.2 :r7

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This is the Debian GNU/Linux prepackaged version of the ss  
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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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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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It is part of the main e2fsprogs distribution, which can be found at:

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

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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Theodore Ts'o
23-June-2007

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1.28 e2fsprogs 1.42.1 :r3

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Theodore Ts'o
23-June-2007

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

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

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

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

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

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

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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Gadi Oxman, August 1995

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

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

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   its purpose remains meaningful.

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   application. Therefore, Subsection 2d requires that any
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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
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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This option is useful when you wish to copy part of the code of
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.44 GDB 7.4 :0.0

1.44.1 Available under license:

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

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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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refrain entirely from distribution of the Library.

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
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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
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versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
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14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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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.>
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., 675 Mass Ave, Cambridge, MA 02139, 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!

1.45 gdbm 1.1 :r3

1.45.1 Available under license:

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Version 3, 29 June 2007

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Preamble

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the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, 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 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.

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
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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.

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

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

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

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You may 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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1.47 glib2 2.32.3 :r4

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1.48 gnutls 2.12.23 :r8.4

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/*
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1.59 kernel-linux 3.4.10

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QLogic Linux iSCSI Driver

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That's all there is to it!

/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 */

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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1.62 less 444.0 :r3

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**1.68 libpam 1.1.6 :r3**

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1.69 libpcap 1.2.1

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1.70 libpcre 8.33 :r0

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

Written by:       Philip Hazel
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 *
 * Reference: Your favorite introductory book on algorithms
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 *
 * Author: breese@users.sourceforge.net
 */
*************************************************************************/

***********
/*
 * list.c: lists handling implementation
 *
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1.79 lsof 4.85 :r1

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#
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# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with code 1.
# Otherwise, we print the canonical config type on stdout and succeed.

# You can get the latest version of this script from:
# http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.sub;hb=HEAD

# This file is supposed to be the same for all GNU packages
# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support. The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
# configuration.

# The goal of this file is to map all the various variations of a given
# machine specification into a single specification in the form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM
# or in some cases, the newer four-part form:
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1.85 netbase 5.1 :r0

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1.87 ntp 4.2.6p2

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jq "Clone me," says Dolly sheepishly.

Last update: 11-May-2010 04:41 UTC

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1.88 ocf-linux 2.0120127E7

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version: Security.L.1.0.2-229

**************************************************************************/

/*$OpenBSD: hifn7751.c,v 1.120 2002/05/17 00:33:34 deraadt Exp $*/

/*-
Invertex AEON / Hifn 7751 driver
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* *
* __FBSDID("$FreeBSD: src/sys/dev/hifn/hifn7751.c,v 1.40 2007/03/21 03:42:49 sam Exp $"); */
 */ * An OCF module that uses Intels IXP CryptACC API to do the crypto. * This driver requires the IXP400 Access Library that is available * from Intel in order to operate (or compile).
* *
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*/

#include <linux/version.h>
#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,38) && ![defined(AUTOCONF_INCLUDED)]
#include <linux/config.h>
#endif
#include <linux/module.h>
#include <linux/init.h>
#include <linux/list.h>
#include <linux/slab.h>
#include <linux/sched.h>
#include <linux/wait.h>
#include <linux/crypto.h>
#include <linux/interrupt.h>
#include <asm/scatterlist.h>

#include <IxTypes.h>
#include <IxOsBuffMgt.h>
#include <IxNpeDI.h>
#include <IxCryptoAcc.h>
#include <IxQMgr.h>
#include <IxOsServices.h>
#include <IxOsCacheMMU.h>

#include <cryptodev.h>
#include <uio.h>

#ifdef IX_MBUF_PRIV
#define IX_MBUF_PRIV(x) ((x)->priv)
#endif

struct ixp_data;

struct ixp_q {
struct list_head ixp_q_list;
struct ixp_data*ixp_q_data;
struct cryptop*ixp_q_crp;
struct cryptodesc*ixp_q_ccrd;
struct cryptodesc*ixp_q_acrd;
IX_MBUF ixp_q_mbuf;
UINT8*ixp_hash_dest; /* Location for hash in client buffer */
UINT8*ixp_hash_src; /* Location of hash in internal buffer */
unsigned char ixp_q_iv_data[IX_CRYPTO_ACC_MAX_CIPHER_IV_LENGTH];
unsigned char*ixp_q_iv;
};

struct ixp_data {
int ixp_registered;/* is the context registered */
int ixp_crd_flags;/* detect direction changes */

int ixp_cipher_alg;
int ixp_auth_alg:

UINT32 ixp_ctx_id;
UINT32 ixp_hash_key_id;/* used when hashing */
IxCryptoAccCtx ixp_ctx;
IX_MBUF ixp_pri_mbuf;
IX_MBUF ixp_sec_mbuf;

struct work_struct ixp_pending_work;
struct work_struct ixp_registration_work;
struct list_head ixp_q;/* unprocessed requests */
};

#ifdef __ixp46X
#define MAX_IOP_SIZE 64 /* words */
#define MAX_OOP_SIZE 128
#define MAX_PARAMS 3

struct ixp_pkq {
struct list_head pkq_list;
struct cryptkop*pkq_krp;

IxCryptoAccPkeEauInOperands pkq_op;
IxCryptoAccPkeEauOpResult pkq_result;

UINT32 pkq_ibuf0[MAX_IOP_SIZE];
UINT32 pkq_ibuf1[MAX_IOP_SIZE];
UINT32 pkq_ibuf2[MAX_IOP_SIZE];
UINT32 pkq_obuf[MAX_OOP_SIZE];

#endif
static LIST_HEAD(ixp_pkq); /* current PK wait list */
static struct ixp_pkq *ixp_pk_cur;
static spinlock_t ixp_pkq_lock;

#endif /* __ixp46X */

static int ixp_blocked = 0;
static int32_t ixp_id = -1;
static struct ixp_data **ixp_sessions = NULL;
static u_int32_t ixp_sesnum = 0;
static int ixp_process(device_t, struct cryptop *, int);
static int ixp_newsession(device_t, u_int32_t *, struct cryptoini *);
static int ixp_freesession(device_t, u_int64_t);
static int ixp_kprocess(device_t, struct cryptkop *krp, int hint);

#endif

#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,20)
static kmem_cache_t *qcache;
#else
static struct kmem_cache *qcache;
#endif

#define debug ixp_debug
static int ixp_debug = 0;
module_param(ixp_debug, int, 0644);
MODULE_PARM_DESC(ixp_debug, "Enable debug");

static int ixp_init_crypto = 1;
module_param(ixp_init_crypto, int, 0444); /* RO after load/boot */
MODULE_PARM_DESC(ixp_init_crypto, "Call ixCryptoAccInit (default is 1)");

static void ixp_process_pending(void *arg);
static void ixp_registration(void *arg);
#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void ixp_process_pending_wq(struct work_struct *work);
static void ixp_registration_wq(struct work_struct *work);
#endif

/*
 * dummy device structure
 */

static struct {

};
softc_device_declsc_dev;
} ixpdev;

static device_method_t ixp_methods = {
/* crypto device methods */
DEVMETHOD(cryptodev_newsession,ixp_newsession),
DEVMETHOD(cryptodev_freesession,ixp_freesession),
DEVMETHOD(cryptodev_process,ixp_process),
#ifdef __ixp46X
DEVMETHOD(cryptodev_kprocess,ixp_kprocess),
#endif
};

/*
 * Generate a new software session.
 */
static int
ixp_newsession(device_t dev, u_int32_t *sid, struct cryptoini *cri)
{
struct ixp_data *ixp;
    u_int32_t i;
#define AUTH_LEN(cri, def) 
    (cri->cri_mlen ? cri->cri_mlen : (def))

dprintk("%s():alg %d\n", __FUNCTION__,cri->cri_alg);
if (sid == NULL || cri == NULL) {
    dprintk("%s,%d - EINVAL\n", __FILE__, __LINE__);
    return EINVAL;
}
    if (ixp_sessions) {
        for (i = 1; i < ixp_sesnum; i++)
            if (ixp_sessions[i] == NULL)
                break;
    } else
        i = 1;/* NB: to silence compiler warning */

    if (ixp_sessions == NULL || i == ixp_sesnum) {
        struct ixp_data **ixpd;

        if (ixp_sessions == NULL) {
            i = 1;/* We leave ixp_sessions[0] empty */
            ixp_sesnum = CRYPTO_SW_SESSIONS;
        } else
            ixp_sesnum *= 2;

        ixpd = kmalloc(ixp_sesnum * sizeof(struct ixp_data *), SLAB_ATOMIC);
        if (ixpd == NULL) {

/* Reset session number */
if (ixp_sesnum == CRYPTO_SW_SESSIONS)
    ixp_sesnum = 0;
else
    ixp_sesnum /= 2;
dprintf("%s,%d: ENOBUFS
", __FILE__, __LINE__);  
return ENOBUFS;
}  
memset(ixpd, 0, ixp_sesnum * sizeof(struct ixp_data *));

/* Copy existing sessions */
if (ixp_sessions) {
    memcpy(ixpd, ixp_sessions,
          (ixp_sesnum / 2) * sizeof(struct ixp_data *));
kfree(ixp_sessions);
}

ixp_sessions = ixpd;
}

ixp_sessions[i] = (struct ixp_data *) kmalloc(sizeof(struct ixp_data),
SLAB_ATOMIC);
if (ixp_sessions[i] == NULL) {
    ixp_freesession(NULL, i);
dprintf("%s,%d: EINVAL
", __FILE__, __LINE__);  
return ENOBUFS;
}

*iid = i;

ixp = ixp_sessions[i];
memset(ixp, 0, sizeof(*ixp));

ixp->ixp_cipher_alg = -1;
ixp->ixp_auth_alg = -1;
ixp->ixp_ctx_id = -1;
INIT_LIST_HEAD(&ixp->ixp_q);

ixp->ixp_ctxt.useDifferentSrcAndDestMbufs = 0;

while (cri) {
    switch (cri->cri_alg) {
    case CRYPTO_DES_CBC:
        ixp->ixp_cipher_alg = cri->cri_alg;
        ixp->ixp_ctxt.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_DES;
        ixp->ixp_ctxt.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
        ixp->ixp_ctxt.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
        ixp->ixp_ctxt.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;

i XP->iXP_ctx.cipherCtx.cipherInitialVectorLen =
   IX_CRYPTO_ACC_DES_IV_64;
memcpy(iXP->iXP_ctx.cipherCtx.key.cipherKey,
  cri->cri_key, (cri->cri_klen + 7) / 8);
b reak;

c ase CRYPTO_3DES_CBC:
  iXP->iXP_cipher_alg = cri->cri_alg;
  iXP->iXP_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_3DES;
  iXP->iXP_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
  iXP->iXP_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
  iXP->iXP_ctx.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;
  iXP->iXP_ctx.cipherCtx.cipherInitialVectorLen =
   IX_CRYPTO_ACC_DES_IV_64;
memcpy(iXP->iXP_ctx.cipherCtx.key.cipherKey,
  cri->cri_key, (cri->cri_klen + 7) / 8);
b reak;

c ase CRYPTO_RIJNDAEL128_CBC:
  iXP->iXP_cipher_alg = cri->cri_alg;
  iXP->iXP_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_AES;
  iXP->iXP_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
  iXP->iXP_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
  iXP->iXP_ctx.cipherCtx.cipherBlockLen = 16;
  iXP->iXP_ctx.cipherCtx.cipherInitialVectorLen = 16;
memcpy(iXP->iXP_ctx.cipherCtx.key.cipherKey,
  cri->cri_key, (cri->cri_klen + 7) / 8);
b reak;

c ase CRYPTO_MD5:
  case CRYPTO_MD5_HMAC:
    iXP->iXP_ctx.authAlgo = IX_CRYPTO_ACC_AUTH_MD5;
    iXP->iXP_ctx.authDigestLen = AUTH_LEN(cri, MD5_HASH_LEN);
    iXP->iXP_ctx.authCtx.aadLen = 0;
    /* Only MD5_HMAC needs a key */
    if (cri->cri_alg == CRYPTO_MD5_HMAC) {
      uint32_t authKeyLen = (cri->cri_klen + 7) / 8;
      if (iXP->iXP_ctx.authKeyLen >
        sizeof(iXP->iXP_ctx.authCtx.key.authKey)) {
        printk("ixp4xx: Invalid key length for MD5_HMAC - %d bits\n",
            cri->cri_klen);
        iXP_freesession(NULL, i);
        return EINVAL;
      }
      memcpy(iXP->iXP_ctx.authCtx.key.authKey,
        cri->cri_key, (cri->cri_klen + 7) / 8);
      break;
case CRYPTO_SHA1:
case CRYPTO_SHA1_HMAC:
  ixp->ixp_auth_alg = cri->cri_alg;
  ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTO_ACC_AUTH_SHA1;
  ixp->ixp_ctx.authCtx.authDigestLen = AUTH_LEN(cri, SHA1_HASH_LEN);
  ixp->ixp_ctx.authCtx.authKeyLen = 0;
  /* Only SHA1_HMAC needs a key */
  if (cri->cri_alg == CRYPTO_SHA1_HMAC) {
    ixp->ixp_ctx.authCtx.authKeyLen = (cri->cri_klen + 7) / 8;
    if (ixp->ixp_ctx.authCtx.authKeyLen >
      sizeof(ixp->ixp_ctx.authCtx.key.authKey)) {
      printk("ixp4xx: Invalid key length for SHA1_HMAC - %d bits\n",
        cri->cri_klen);
      ixp_freesession(NULL, i);
      return EINVAL;
    }
    memcpy(ixp->ixp_ctx.authCtx.key.authKey, 
      cri->cri_key, (cri->cri_klen + 7) / 8);
  }
  break;

default:
  printk("ixp: unknown algo 0x%x\n", cri->cri_alg);
  ixp_freesession(NULL, i);
  return EINVAL;
}
cri = cri->cri_next;
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
 INIT_WORK(&ixp->ixp_pending_work, ixp_process_pending_wq);
 INIT_WORK(&ixp->ixp_registration_work, ixp_registration_wq);
#else
 INIT_WORK(&ixp->ixp_pending_work, ixp_process_pending, ixp);
 INIT_WORK(&ixp->ixp_registration_work, ixp_registration, ixp);
#endif

return 0;
}
static int
ixp_freesession(device_t dev, u_int64_t tid)
{
  u_int32_t sid = CRYPTO_SESID2LID(tid);

dprintk("%s()", __FUNCTION__);
if (sid > ixp_sesnum || ixp_sessions == NULL ||
    ixp_sessions[sid] == NULL) {
  dprintk("%s,%d: EINVAL
", __FILE__, __LINE__);
  return EINVAL;
}
/* Silently accept and return */
if (sid == 0)
  return 0;

if (ixp_sessions[sid]) {
  if (ixp_sessions[sid]->ixp_ctx_id != -1) {
    ixCryptoAccCtxUnregister(ixp_sessions[sid]->ixp_ctx_id);
    ixp_sessions[sid]->ixp_ctx_id = -1;
  }
  kfree(ixp_sessions[sid]);
}  
ixp_sessions[sid] = NULL;
if (ixp_blocked) {
  ixp_blocked = 0;
  crypto_unblock(ixp_id, CRYPTO_SYMQ);
}
return 0;
}

/*
 * callback for when hash processing is complete
 */

static void
ixp_hash_perform_cb(
  UINT32 hash_key_id,
  IX_MBUF *bufp,
  IX_CryptoAccStatus status)
{
  struct ixp_q *q;

dprintk("%s(%u, %p, 0x%x)\n", __FUNCTION__, hash_key_id, bufp, status);

  if (bufp == NULL) {
    printk("ixp: NULL buf in %s\n", __FUNCTION__);
  }
return;
}

q = IX_MBUF_PRIV(bufp);
if (q == NULL) {
printk("ixp: NULL priv in %s
", __FUNCTION__);
return;
}

if (status == IX_CRYPTO_ACC_STATUS_SUCCESS) {
/* On success, need to copy hash back into original client buffer */
memcpy(q->ixp_hash_dest, q->ixp_hash_src,
(q->ixp_q_data->ixp_auth_alg == CRYPTO_SHA1) ?
SHA1_HASH_LEN : MD5_HASH_LEN);
}
else {
printk("ixp: hash perform failed status=%d
", status);
q->ixp_q_crp->crp_etype = EINVAL;
}

/* Free internal buffer used for hashing */
kfree(IX_MBUF_MDATA(&q->ixp_q_mbuf));
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*
* setup a request and perform it
*/
static void
ixp_q_process(struct ixp_q *q)
{
IxCryptoAccStatus status;
struct ixp_data *ixp = q->ixp_q_data;
int auth_off = 0;
int auth_len = 0;
int crypt_off = 0;
int crypt_len = 0;
int icv_off = 0;
char *crypt_func;
dprintk("%s(p)%n", __FUNCTION__, q);

if (q->ixp_q_ccrd) {
if (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT) {
if (q->ixp_q_ccrd->crd_flags & CRD_F_IV_EXPLICIT) {
q->ixp_q_iv = q->ixp_q_ccrd->crd_iv;
}
else {
q->ixp_q_iv = q->ixp_q_iv_data;
read_random(q->ixp_q_iv, ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen);
}
if ((q->ixp_q_ccrd->crd_flags & CRD_F_IV_PRESENT) == 0)
crypto_copyback(q->ixp_q_crp->crp_flags, q->ixp_q_crp->crp_buf,
q->ixp_q_ccrd->crd_inject,
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen,
(caddr_t) q->ixp_q_iv);
} else {
if (q->ixp_q_ccrd->crd_flags & CRD_F_IV_EXPLICIT)
q->ixp_q_iv = q->ixp_q_ccrd->crd_iv;
else {
q->ixp_q_iv = q->ixp_q_iv_data;
crypto_copydat(q->ixp_q_crp->crp_flags, q->ixp_q_crp->crp_buf,
q->ixp_q_ccrd->crd_inject,
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen,
(caddr_t) q->ixp_q_iv);
}
}
if (q->ixp_q_acrd) {
auth_off = q->ixp_q_acrd->crd_skip;
auth_len = q->ixp_q_acrd->crd_len;
icv_off  = q->ixp_q_acrd->crd_inject;
}
crypt_off = q->ixp_q_ccrd->crd_skip;
crypt_len = q->ixp_q_ccrd->crd_len;
} else { /* if (q->ixp_q_acrd) */
auth_off = q->ixp_q_acrd->crd_skip;
auth_len = q->ixp_q_acrd->crd_len;
icv_off  = q->ixp_q_acrd->crd_inject;
}
if (q->ixp_q_crp->crp_flags & CRYPTO_F_SKBUF) {
struct sk_buff *skb = (struct sk_buff *) q->ixp_q_crp->crp_buf;
if (skb_shinfo(skb)->nr frags) {
/*
 * DAVIDM fix this limitation one day by using
 * a buffer pool and chaining, it is not currently
 * needed for current user/kernel space acceleration
 */
printk("ixp: Cannot handle fragmented skb’s yet \n");
q->ixp_q_crp->crp_etype = ENOENT;
goto done;
}
IX_MBUF_MLEN(&q->ixp_q_mbuf) =
}
IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = skb->len;
IX_MBUF_MDATA(&q->ixp_q_mbuf) = skb->data;
} else if (q->ixp_q_crp->crp_flags & CRYPTO_F_IOV) {
    struct uio *uiop = (struct uio *) q->ixp_q_crp->crp_buf;
    if (uiop->uio_iovcnt != 1) {
        /*
         * DAVIDM fix this limitation one day by using
         * a buffer pool and chaining, it is not currently
         * needed for current user/kernel space acceleration
         */
        printk("ixp: Cannot handle more than 1 iovec yet !n");
        q->ixp_q_crp->crp_etype = ENOENT;
        goto done;
    }
    IX_MBUF_MLEN(&q->ixp_q_mbuf) =
    IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = uiop->uio iov[0].iov_len;
    IX_MBUF_MDATA(&q->ixp_q_mbuf) = uiop->uio iov[0].iov_base;
} else /* contig buffer */ {
    IX_MBUF_MLEN(&q->ixp_q_mbuf) =
    IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = q->ixp_q_crp->crp_ilen;
    IX_MBUF_MDATA(&q->ixp_q_mbuf) = q->ixp_q_crp->crp_buf;
}

IX_MBUF_PRIV(&q->ixp_q_mbuf) = q;

if (ixp->ixp_auth_alg == CRYPTO_SHA1 || ixp->ixp_auth_alg == CRYPTO_MD5) {
    /*
     * For SHA1 and MD5 hash, need to create an internal buffer that is big
     * enough to hold the original data + the appropriate padding for the
     * hash algorithm.
     */
    UINT8 *tbuf = NULL;

    IX_MBUF_MLEN(&q->ixp_q_mbuf) = IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) =
    ((IX_MBUF_MLEN(&q->ixp_q_mbuf) * 8) + 72 + 511) / 8;
    tbuf = kmalloc(IX_MBUF_MLEN(&q->ixp_q_mbuf), SLAB_ATOMIC);
    if (IX_MBUF_MDATA(&q->ixp_q_mbuf) == NULL) {
        printk("ixp: kmalloc(%u, SLAB_ATOMIC) failed
", IX_MBUF_MLEN(&q->ixp_q_mbuf));
        q->ixp_q_crp->crp_etype = ENOMEM;
        goto done;
    }
    memcpy(tbuf, &(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_off], auth_len);
    /* Set location in client buffer to copy hash into */
    q->ixp_hash_dest =
    &(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_off + auth_len];
}
IX_MBUF_MDATA(&q->ixp_q_mbuf) = tbuf;

/* Set location in internal buffer for where hash starts */
q->ixp_hash_src = &IX_MBUF_MDATA(&q->ixp_q_mbuf)[auth_len];

crypt_func = "ixCryptoAccHashPerform";
status = ixCryptoAccHashPerform(ixp->ixp_ctx.authCtx.authAlgo,
&q->ixp_q_mbuf, ixp_hash_perform_cb, 0, auth_len, auth_len,
&ixp->ixp_hash_key_id);
} else {
crypt_func = "ixCryptoAccAuthCryptPerform";
status = ixCryptoAccAuthCryptPerform(ixp->ixp_ctx_id, &q->ixp_q_mbuf,
NULL, auth_off, auth_len, crypt_off, crypt_len, icv_off,
q->ixp_q_iv);
}

if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
return;

if (IX_CRYPTO_ACC_STATUS_QUEUE_FULL == status) {
q->ixp_q_crp->crp_etype = ENOMEM;
goto done;
}

printk("ixp: %s failed %u\n", crypt_func, status);
q->ixp_q_crp->crp_etype = EINVAL;

done:
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*
 * because we cannot process the Q from the Register callback
 * we do it here on a task Q.
 */

static void
ixp_process_pending(void *arg)
{
struct ixp_data *ixp = arg;
struct ixp_q *q = NULL;

printf("%s(%p)\n", __FUNCTION__, arg);

if (!ixp)
    return;

while (!list_empty(&ixp->ixp_q)) {
    q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
    list_del(&q->ixp_q_list);
    ixp_q_process(q);
}
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void
ixp_process_pending_wq(struct work_struct *work)
{
    struct ixp_data *ixp = container_of(work, struct ixp_data, ixp_pending_work);
    ixp_process_pending(ixp);
}
#endif

/*
 * callback for when context registration is complete
 */

static void
ixp_register_cb(UINT32 ctx_id, IX_MBUF *bufp, IX_CryptoAccStatus status)
{
    int i;
    struct ixp_data *ixp;
    struct ixp_q *q;

    printk("%s(%d, %p, %d)\n", __FUNCTION__, ctx_id, bufp, status);

    /*
     * free any buffer passed in to this routine
     */
    if (bufp) {
        IX_MBUF_MLEN(bufp) = IX_MBUF_PKT_LEN(bufp) = 0;
        kfree(IX_MBUF_MDATA(bufp));
        IX_MBUF_MDATA(bufp) = NULL;
    }

    for (i = 0; i < ixp_sesnum; i++) {
        ixp = ixp_sessions[i];
        if (ixp && ixp->ixp_ctx_id == ctx_id)
            break;
    }
    if (i >= ixp_sesnum) {
        printk("ixp: invalid context id %d\n", ctx_id);
    }
}
if (IX_CRYPTO_ACC_STATUS_WAIT == status) {
    /* this is normal to free the first of two buffers */
dprintk("ixp: register not finished yet.\n");
    return;
}

if (IX_CRYPTO_ACC_STATUS_SUCCESS != status) {
    printk("ixp: register failed 0x%lx\n", status);
    while (!list_empty(&ixp->ixp_q)) {
        q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
        list_del(&q->ixp_q_list);
        q->ixp_q_crp->crp_etype = EINVAL;
        crypto_done(q->ixp_q_crp);
        kmem_cache_free(qcache, q);
    }
    return;
}

/*
 * we are now registered, we cannot start processing the Q here
 * or we get strange errors with AES (DES/3DES seem to be ok).
 */
ixp->ixp_registered = 1;
schedule_work(&ixp->ixp_pending_work);
}

/*
 * callback for when data processing is complete
 */
static void
ixp_perform_cb(
    UINT32 ctx_id,
    IX_MBUF *sbufp,
    IX_MBUF *dbufp,
    IxCryptoAccStatus status)
{
    struct ixp_q *q;

dprintk("%s(%d, %p, %p, 0x%llx)\n", __FUNCTION__, ctx_id, sbufp, dbufp, status);

    if (sbufp == NULL) {
        printk("ixp: NULL sbuf in ixp_perform_cb\n");
    }
q = IX_MBUF_PRIV(sbufp);
if (q == NULL) {
    printk("ixp: NULL priv in ixp_perform_cb\n");
    return;
}

if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
    printk("ixp: perform failed status=%d\n", status);
    q->ixp_q_crp->crp_etype = EINVAL;
}

crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

static void
ixp_registration(void *arg)
{
    struct ixp_data *ixp = arg;
    struct ixp_q *q = NULL,
    IX_MBUF *pri = NULL, *sec = NULL;
    int status = IX_CRYPTO_ACC_STATUS_SUCCESS;

    if (!ixp)
        printk("ixp: ixp_registration with no arg\n");
    return;
}

if (ixp->ixp_ctx_id != -1) {
    ixCryptoAccCtxUnregister(ixp->ixp_ctx_id);
    ixp->ixp_ctx_id = -1;
}

if (list_empty(&ixp->ixp_q)) {
    printk("ixp: ixp_registration with no Q\n");
}
return;
}

/*
 * setup the primary and secondary buffers
 */
q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
if (q->ixp_q_acrd) {
  pri = &ixp->ixp_pri_mbuf;
  sec = &ixp->ixp_sec_mbuf;
  IX_MBUF_MLEN(pri) = IX_MBUF_PKT_LEN(pri) = 128;
  IX_MBUF_MDATA(pri) = (unsigned char *) kmalloc(128, SLAB_ATOMIC);
  IX_MBUF_MLEN(sec) = IX_MBUF_PKT_LEN(sec) = 128;
  IX_MBUF_MDATA(sec) = (unsigned char *) kmalloc(128, SLAB_ATOMIC);
}

/* Only need to register if a crypt op or HMAC op */
if (!(ixp->ixp_auth_alg == CRYPTO_SHA1 ||
  ixp->ixp_auth_alg == CRYPTO_MD5)) {
  status = ixCryptoAccCtxRegister(
    &ixp->ixp_ctx,
    pri, sec,
    ixp_register_cb,
    ixp_perform_cb,
    &ixp->ixp_ctx_id);
} else {
  /* Otherwise we start processing pending q */
  schedule_work(&ixp->ixp_pending_work);
}

if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
  return;

if (IX_CRYPTO_ACC_STATUS_EXCEED_MAX_TUNNELS == status) {
  printk("ixp: ixCryptoAccCtxRegister failed (out of tunnels)\n");
  ixp_blocked = 1;
  /* perhaps we should return EGAIN on queued ops ? */
  return;
}

printk("ixp: ixCryptoAccCtxRegister failed %d\n", status);
ixp->ixp_ctx_id = -1;

/*
 * everything waiting is toasted
 */
while (!list_empty(&ixp->ixp_q)) {
q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
list_del(&q->ixp_q_list);
q->ixp_q_crp->crp_etype = ENOENT;
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void
ixp_registration_wq(struct work_struct *work)
{
struct ixp_data *ixp = container_of(work, struct ixp_data,
ixp_registration_work);
ixp_registration(ixp);
}
#endif

/*
 * Process a request.
 */
static int
ixp_process(device_t dev, struct cryptop *crp, int hint)
{
struct ixp_data *ixp;
unsigned int lid;
struct ixp_q *q = NULL;
int status;
dprintk("%s()
", __FUNCTION__);

/* Sanity check */
if (crp == NULL) {
  dprintk("%s,%d: EINVAL
", __FILE__, __LINE__);
  return EINVAL;
}

if (ixp_blocked)
   return ERESTART;

if (crp->crp_desc == NULL || crp->crp_buf == NULL) {
  dprintk("%s,%d: EINVAL
", __FILE__, __LINE__);
  crp->crp_etype = EINVAL;
  goto done;
}

q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
list_del(&q->ixp_q_list);
q->ixp_q_crp->crp_etype = ENOENT;
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}
/* find the session we are using */

lid = crp->crp_sid & 0xffffffff;
if (lid >= ixp_sesnum || lid == 0 || ixp_sessions == NULL || ixp_sessions[lid] == NULL) {
    crp->crp_etype = ENOENT;
dprintf("%s,%d: ENOENT\n", __FILE__, __LINE__);
goto done;
}
ixp = ixp_sessions[lid];

/* setup a new request ready for queuing */
q = kmem_cache_alloc(qcache, SLAB_ATOMIC);
if (q == NULL) {
    dprintf("%s,%d: ENOMEM\n", __FILE__, __LINE__);
crp->crp_etype = ENOMEM;
goto done;
}

/* save some cycles by only zeroing the important bits */
memset(&q->ixp_q_mbuf, 0, sizeof(q->ixp_q_mbuf));
q->ixp_q_ccrd = NULL;
q->ixp_q_acrd = NULL;
q->ixp_q_crp = crp;
q->ixp_q_data = ixp;

/* point the cipher and auth descriptors appropriately */
if (crp->crp_desc->crd_alg == ixp->ixp_cipher_alg)
    q->ixp_q_ccrd = crp->crp_desc;
else if (crp->crp_desc->crd_alg == ixp->ixp_auth_alg)
    q->ixp_q_acrd = crp->crp_desc;
else {
    crp->crp_etype = ENOENT;
dprintf("%s,%d: bad desc match: ENOENT\n", __FILE__, __LINE__);
goto done;
}
if (crp->crp_desc->crd_next) {
    if (crp->crp_desc->crd_next->crd_alg == ixp->ixp_cipher_alg)
        q->ixp_q_ccrd = crp->crp_desc->crd_next;
    else if (crp->crp_desc->crd_next->crd_alg == ixp->ixp_auth_alg)
q->ixp_q_acrd = crp->crp_desc->crd_next;
else {
    crp->crp_etype = ENOENT;
dprintf("%s,%d: bad desc match: ENOENT\n", __FILE__, __LINE__);
    goto done;
}

/*
 * If there is a direction change for this context then we mark it as
 * unregistered and re-register for the new direction. This is not
 * a very expensive operation and currently only tends to happen when
 * user-space application are doing benchmarks
 *
 * DM - we should be checking for pending requests before unregistering.
 */
if (q->ixp_q_ccrd && ixp->ixp_registered &&
    ixp->ixp_crd_flags != (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT)) {
dprintf("%s - detected direction change on session\n", __FUNCTION__);
    ixp->ixp_registered = 0;
}

/*
 * if we are registered, call straight into the perform code
 */
if (ixp->ixp_registered) {
    ixp_q_process(q);
    return 0;
}

/*
 * the only part of the context not set in newsession is the direction
 * dependent parts
 */
if (q->ixp_q_ccrd) {
    ixp->ixp_crd_flags = (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT);
    if (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT) {
        ixp->ixp_ctx.operation = q->ixp_q_acrd ?
            IX_CRYPTO_ACC_OP_ENCRYPT_AUTH : IX_CRYPTO_ACC_OP_ENCRYPT;
    } else {
        ixp->ixp_ctx.operation = q->ixp_q_acrd ?
            IX_CRYPTO_ACC_OP_AUTH_DECRYPT : IX_CRYPTO_ACC_OP_DECRYPT;
    }
} else {
    /* q->ixp_q_acrd must be set if we are here */
    ixp->ixp_ctx.operation = IX_CRYPTO_ACC_OP_AUTH_CALC;
}
status = list_empty(&ixp->ixp_q);
list_add_tail(&q->ixp_q_list, &ixp->ixp_q);
if (status)
schedule_work(&ixp->ixp_registration_work);
return 0;

done:
if (q)
kmem_cache_free(qcache, q);
crypto_done(crp);
return 0;
}

#ifdef __ixp46X
/*
 * key processing support for the ixp465
 */

/*
 * copy a BN (LE) into a buffer (BE) an fill out the op appropriately
 * assume zeroed and only copy bits that are significant
 */

static int
ixp_copy_ibuf(struct crparam *p, IxCryptoAccPkeEauOperand *op, UINT32 *buf)
{
unsigned char *src = (unsigned char *) p->crp_p;
unsigned char *dst;
int len, bits = p->crp_nbits;
dprintf("%s()
", __FUNCTION__);

if (bits > MAX_IOP_SIZE * sizeof(UINT32) * 8) {
dprintf("%s - ibuf too big (%d > %d\n", __FUNCTION__,
bits, MAX_IOP_SIZE * sizeof(UINT32) * 8);
return -1;
}

len = (bits + 31) / 32; /* the number UINT32's needed */

dst = (unsigned char *) &buf[len];
dst--;

while (bits > 0) {
*dst-- = *src++;
bits -= 8;
#if 0 /* no need to zero remaining bits as it is done during request alloc */
while (dst > (unsigned char *) buf)
    *dst-- = '\0';
#endif

op->pData = buf;
op->dataLen = len;
return 0;
}

/*
 * copy out the result, be as forgiving as we can about small output buffers
 */
static int
ixp_copy_obuf(struct crparam *p, IxCryptoAccPkeEauOpResult *op, UINT32 *buf)
{
    unsigned char *dst = (unsigned char *) p->crp_p;
    unsigned char *src = (unsigned char *) buf;
    int len, z, bits = p->crp_nbits;

    dprintk("%s()
", __FUNCTION__);

    len = op->dataLen * sizeof(UINT32);

    /* skip leading zeroes to be small buffer friendly */
    z = 0;
    while (z < len && src[z] == '\0')
        z++;

    src += len;
    src--;
    len -= z;

    while (len > 0 && bits > 0) {
        *dst++ = *src--;
        len--;
        bits -= 8;
    }

    while (bits > 0) {
        *dst++ = '\0';
        bits -= 8;
    }

    if (len > 0) {

/*
 * the parameter offsets for exp_mod
 */

#define IXP_PARAM_BASE 0
#define IXP_PARAM_EXP  1
#define IXP_PARAM_MOD  2
#define IXP_PARAM_RES  3

/*
 * key processing complete callback, is also used to start processing
 * by passing a NULL for pResult
 */

static void
ixp_kperform_cb(IxCryptoAccPkeEauOperation operation, IxCryptoAccPkeEauOpResult *pResult, BOOL carryOrBorrow, IxCryptoAccStatus status)
{
    struct ixp_pkq *q, *tmp;
    unsigned long flags;

dprintfk("%s(0x%x, %p, %d, 0x%x)
", __FUNCTION__, operation, pResult, carryOrBorrow, status);

    /* handle a completed request */
    if (pResult) {
        if (ixp_pk_cur && &ixp_pk_cur->pkq_result == pResult) {
            q = ixp_pk_cur;
            if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
                dprintfk("%s() - op failed 0x%x
", __FUNCTION__, status);
                q->pkq_krp->krp_status = ERANGE; /* could do better */
            } else {
                /* copy out the result */
                if (ixp_copy_obuf(&q->pkq_krp->krp_param[IXP_PARAM_RES],
                    &q->pkq_result, q->pkq_obuf))
                    q->pkq_krp->krp_status = ERANGE;
            }
        }
    }
}
crypto_kdone(q->pk_krp);
kfree(q);
ixp_pk_cur = NULL;
} else
printk("%s - callback with invalid result pointer\n", __FUNCTION__);
}

spin_lock_irqsave(&ixp_pkq_lock, flags);
if (ixp_pk_cur || list_empty(&ixp_pkq)) {
spin_unlock_irqrestore(&ixp_pkq_lock, flags);
return;
}

list_for_each_entry_safe(q, tmp, &ixp_pkq, pkq_list) {

list_del(&q->pkq_list);
ixp_pk_cur = q;

spin_unlock_irqrestore(&ixp_pkq_lock, flags);

status = ixCryptoAccPkeEauPerform(
IX_CRYPTO_ACC_OP_EAU_MOD_EXP,
&q->pkq_op,
ixp_kperform_cb,
&q->pkq_result);

if (status == IX_CRYPTO_ACC_STATUS_SUCCESS) {
dprintk("%s() - ixCryptoAccPkeEauPerform SUCCESS\n", __FUNCTION__);
return; /* callback will return here for callback */
} else if (status == IX_CRYPTO_ACC_STATUS_RETRY) {
printk("%s() - ixCryptoAccPkeEauPerform RETRY\n", __FUNCTION__);
} else {
printk("%s() - ixCryptoAccPkeEauPerform failed %d\n",
__FUNCTION__, status);
}
q->pkq_krp->krp_status = ERANGE; /* could do better */
crypto_kdone(q->pk_krp);
kfree(q);
spin_lock_irqsave(&ixp_pkq_lock, flags);
}
spin_unlock_irqrestore(&ixp_pkq_lock, flags);


static int
ixp_kprocess(device_t dev, struct cryptkop *krp, int hint)
{
struct ixp_pkq *q;
int rc = 0;
unsigned long flags;

dprintf("%s l1=%d l2=%d l3=%d l4=%d\n", __FUNCTION__,
krp->krp_param[IXP_PARAM_BASE].crp_nbits,
krp->krp_param[IXP_PARAM_EXP].crp_nbits,
krp->krp_param[IXP_PARAM_MOD].crp_nbits,
krp->krp_param[IXP_PARAM_RES].crp_nbits);

if (krp->krp_op != CRK_MOD_EXP) {
  krp->krp_status = EOPNOTSUPP;
goto err;
}

q = (struct ixp_pkq *) kmalloc(sizeof(*q), GFP_KERNEL);
if (q == NULL) {
  krp->krp_status = ENOMEM;
goto err;
}

/*
* The PKE engine does not appear to zero the output buffer
* appropriately, so we need to do it all here.
*/
memset(q, 0, sizeof(*q));

q->pkq_krp = krp;
INIT_LIST_HEAD(&q->pkq_list);

if (ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_BASE], &q->pkq_op.modExpOpr.M,
q->pkq_ibuf0))
  rc = 1;
if (!rc && ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_EXP],
&q->pkq_op.modExpOpr.e, q->pkq_ibuf1))
  rc = 2;
if (!rc && ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_MOD],
&q->pkq_op.modExpOpr.N, q->pkq_ibuf2))
  rc = 3;

if (rc) {
  kfree(q);
  krp->krp_status = ERANGE;
goto err;
}

q->pkq_result.pData = q->pkq_obuf;
q->pkq_result.dataLen = (krp->krp_param[IXP_PARAM_RES].crp_nbits + 31) / 32;

spin_lock_irqsave(&ixp_pkq_lock, flags);
list_add_tail(&q->pkq_list, &ixp_pkq);
spin_unlock_irqrestore(&ixp_pkq_lock, flags);

if (!ixp_pk_cur)
    ixp_kperform_cb(0, NULL, 0, 0);
return (0);

err:
crypto_kdone(krp);
return (0);

#ifdef CONFIG_OCF_RANDOMHARVEST
/*
 * We run the random number generator output through SHA so that it
 * is FIPS compliant.
 */

static volatile int sha_done = 0;
static unsigned char sha_digest[20];

static volatile void
ixp_hash_cb(UINT8 *digest, IxCryptoAccStatus status)
{
    dprintk("%s(%p, %d)\n", __FUNCTION__, digest, status);
    if (sha_digest != digest)
        printk("digest error\n");
    if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
        sha_done = 1;
    else
        sha_done = -status;
}

static int
ixp_read_random(void *arg, u_int32_t *buf, int maxwords)
{
    IxCryptoAccStatus status;
    int i, n, rc;

dprintf("%s(%p, %d)\n", __FUNCTION__, buf, maxwords);
memset(buf, 0, maxwords * sizeof(*buf));
status = ixCryptoAccPkePseudoRandomNumberGet(maxwords, buf);
if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
dprintk("%s: ixCryptoAccPkePseudoRandomNumberGet failed %d\n", __FUNCTION__, status);
return 0;
}

/*
 * run the random data through SHA to make it look more random
 */

n = sizeof(sha_digest); /* process digest bytes at a time */

rc = 0;
for (i = 0; i < maxwords; i += n / sizeof(*buf)) {
if ((maxwords - i) * sizeof(*buf) < n)
    n = (maxwords - i) * sizeof(*buf);
    sha_done = 0;
    status = ixCryptoAccPkeHashPerform(IX_CRYPTO_ACC_AUTH_SHA1, (UINT8 *) &buf[i], n, ixp_hash_cb, sha_digest);
    if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
        dprintk("ixCryptoAccPkeHashPerform failed %d\n", status);
        return -EIO;
    }
    while (!sha_done)
schedule();
    if (sha_done < 0) {
        dprintk("ixCryptoAccPkeHashPerform failed CB %d\n", -sha_done);
        return 0;
    }
    memcpy(&buf[i], sha_digest, n);
    rc += n / sizeof(*buf);
}

return rc;
}
#endif /* CONFIG_OCF_RANDOMHARVEST */

#endif /* __ixp46X */

/*
 * our driver startup and shutdown routines
 */

static int
ixp_init(void) {

dprintk("%s(%p)\n", __FUNCTION__, __FUNCTION__);

if (ixp_init_crypto && ixCryptoAccInit() != IX_CRYPTO_ACC_STATUS_SUCCESS) printk("ixCryptoAccInit failed, assuming already initialised!\n");

qcache = kmem_cache_create("ixp4xx_q", sizeof(struct ixp_q), 0, SLAB_HWCACHE_ALIGN, NULL);
#ifdef LINUX_VERSION_CODE < KERNEL_VERSION(2,6,23)
 , NULL
#endif
-
if (!qcache) {
    printk("failed to create Qcache\n");
    return -ENOENT;
}

memset(&ixpdev, 0, sizeof(ixpdev));
softc_device_init(&ixpdev, "ixp4xx", 0, ixpdev_methods);

ixp_id = crypto_get_driverid(softc_get_device(&ixpdev), CRYPTO_CAP_F_HARDWARE);
if (ixp_id < 0)
    panic("IXP/OCF crypto device cannot initialize!");

#define REGISTER(alg) 
    crypto_register(ixp_id, alg, 0, 0)
REGISTER(CRYPTO_DES_CBC);
REGISTER(CRYPTO_3DES_CBC);
REGISTER(CRYPTO_RIJNDAEL128_CBC);
#ifdef CONFIG_OCF_I XP4XX_SHA1_MD5
    REGISTER(CRYPTO_MD5);
    REGISTER(CRYPTO_SHA1);
#endif
REGISTER(CRYPTO_MD5_HMAC);
REGISTER(CRYPTO_SHA1_HMAC);
#undef REGISTER

#ifdef __ixp46X
    spin_lock_init(&ixp_pkq_lock);
    /*
    * we do not enable the go fast options here as they can potentially
    * allow timing based attacks
    * http://www.openssl.org/news/secadv_20030219.txt
    */
    ixCryptoAccPkeEauExpConfig(0, 0);
    crypto_kregister(ixp_id, CRK_MOD_EXP, 0);
#ifdef CONFIG_OCF_RANDOMHARVEST
crypto_register(ixp_id, ixp_read_random, NULL);
#endif
#endif

return 0;
}

crypto_unregister_all(ixp_id);
ixp_id = -1;
kmem_cache_destroy(qcache);
qcache = NULL;
}

module_init(ixp_init);
module_exit(ixp_exit);

MODULE_LICENSE("Dual BSD/GPL");
MODULE_AUTHOR("David McCullough <dmccullough@cyberguard.com>");
MODULE_DESCRIPTION("ixp (OCF module for IXP4xx crypto)");

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1.90 openssh 6.2p2 :r0

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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API)
and corresponding command line interface (CLI) for the generation of
DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally
Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version
1 (time and node based), version 3 (name based, MD5), version 4
(random number based) and version 5 (name based, SHA-1). Additional
API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

http://www.ossp.org/pkg/lib/uuid/
OSSP uuid - Universally Unique Identifier

AUTHORS

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### 1.100 perl 5.14.2

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 * AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 * OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */
/*
* Chat -- a program for automatic session establishment (i.e. dial
* the phone and log in).
*
* Standard termination codes:
* 0 - successful completion of the script
* 1 - invalid argument, expect string too large, etc.
* 2 - error on an I/O operation or fatal error condition.
* 3 - timeout waiting for a simple string.
* 4 - the first string declared as "ABORT"
* 5 - the second string declared as "ABORT"
* 6 - ... and so on for successive ABORT strings.
*
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*/

* passprompt.c - pppd plugin to invoke an external PAP password prompter
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*/
/*
 Unix SMB/CIFS implementation.

trivial database library

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/* pppoatm.c - pppd plugin to implement PPPoATM protocol.
 *
* Copyright 2000 Mitchell Blank Jr.
* Based in part on work from Jens Axboe and Paul Mackerras.
* Updated to ppp-2.4.1 by Bernhard Kaindl
*
* Updated to ppp-2.4.2 by David Woodhouse 2004.
* - disconnect method added
*- remove_options() abuse removed.
 *
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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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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.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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1.105 python 2.7.5
1.105.1 Available under license:

A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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2.6.5 2.6.4 2010 PSF yes
2.7 2.6 2010 PSF yes

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A. HISTORY OF THE SOFTWARE

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History
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Before (and including) argparse 1.1, the argparse package was licensed under
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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Metadata-Version: 1.0
Name: async
Version: 0.6.1
Summary: Async Framework
Home-page: http://gitorious.org/git-python/async
Author: Sebastian Thiel
Author-email: byronimo@gmail.com
License: BSD License
Description: Async is a framework to process interdependent tasks in a pool of workers
Platform: UNKNOWN
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.110 python-ipaddress 1.0 :r0

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1.111 python-pexpect 2.3 :ml3

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1.112 python-pip 1.5.6 :r0

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1.113 python-pip 1.3.1 :r0

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1.114 python-pycurl 7.19.0 :r3
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1.124 screen 4.0.3 :r3
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This package was put together from sources obtained from:
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See the info documentation for contact information for the upstream authors.

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1.125 sed 4.2.1 :r5
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/*
 klogd.c - main program for Linux kernel log daemon.
 Copyright (c) 1995  Dr. G.W. Wettstein <greg@wind.rmcc.com>

 This file is part of the sysklogd package, a kernel and system log daemon.

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/*

* Steve Lord (lord@cray.com) 7th Nov 92
*
* Modified to check for kernel info by Dr. G.W. Wettstein 02/17/93.
*
* Fri Mar 12 16:53:56 CST 1993: Dr. Wettstein
* Modified LogLine to use a newline as the line separator in
* the kernel message buffer.
*
* Added debugging code to dump the contents of the kernel message
* buffer at the start of the LogLine function.
*
* Thu Jul 29 11:40:32 CDT 1993: Dr. Wettstein
* Added syscalls to turn off logging of kernel messages to the
* console when klogd becomes responsible for kernel messages.
*
* klogd now catches SIGTERM and SIGKILL signals. Receipt of these
* signals cases the clean_up function to be called which shuts down
* kernel logging and re-enables logging of messages to the console.
*
* Sat Dec 11 11:54:22 CST 1993: Dr. Wettstein
* Added fixes to allow compilation with no complaints with -Wall.
*
* When the daemon catches a fatal signal (SIGTERM, SIGKILL) a
* message is output to the logfile advising that the daemon is
* going to terminate.
*
* Thu Jan 6 11:54:10 CST 1994: Dr. Wettstein
* Major re-write/re-organization of the code.
*
* Klogd now assigns kernel messages to priority levels when output
* to the syslog facility is requested. The priority level is
* determined by decoding the prioritization sequence which is
* tagged onto the start of the kernel messages.
*
* Added the following program options: -f arg -c arg -s -o -d
*
* The -f switch can be used to specify that output should
* be written to the named file.
*
* The -c switch is used to specify the level of kernel
messages which are to be directed to the console.

* The -s switch causes the program to use the syscall
  interface to the kernel message facility. This can be
  used to override the presence of the /proc filesystem.

* The -o switch causes the program to operate in 'one-shot'
  mode. A single call will be made to read the complete
  kernel buffer. The contents of the buffer will be
  output and the program will terminate.

* The -d switch causes 'debug' mode to be activated. This
  will cause the daemon to generate LOTS of output to stderr.

* The buffer decomposition function (LogLine) was re-written to
  squash a bug which was causing only partial kernel messages to
  be written to the syslog facility.

* The signal handling code was modified to properly differentiate
  between the STOP and TSTP signals.

* Added pid saving when the daemon detaches into the background. Thank
  you to Juha Virtanen (jiivee@hut.fi) for providing this patch.

* Mon Feb  6 07:31:29 CST 1995:  Dr. Wettstein
  Significant re-organization of the signal handling code. The
  signal handlers now only set variables. Not earth shaking by any
  means but aesthetically pleasing to the code purists in the group.

* Patch to make things more compliant with the file system standards.
  Thanks to Chris Metcalf for prompting this helpful change.

* The routines responsible for reading the kernel log sources now
  initialize the buffers before reading. I think that this will
  solve problems with non-terminated kernel messages producing
  output of the form:  new old old old

* This may also help influence the occassional reports of klogd
  failing under significant load. I think that the jury may still
  be out on this one though. My thanks to Joerg Ahrens for initially
  tipping me off to the source of this problem. Also thanks to
  Michael O'Reilly for tipping me off to the best fix for this problem.
  And last but not least Mark Lord for prompting me to try this as
  a means of attacking the stability problem.

* Specifying a - as the argument to the -f switch will cause output
  to be directed to stdout rather than a filename of -. Thanks to
  Randy Appleton for a patch which prompted me to do this.
* Wed Feb 22 15:37:37 CST 1995: Dr. Wettstein
* Added version information to logging startup messages.
* Added an commandline argument "-n" to avoid forking. This obsoletes
  the compiler define NO_FORK. It's more useful to have this as an
  argument as there are many binary versions and one doesn't need to
  recompile the daemon.
* Thu Aug 10 19:01:08 MET DST 1995: Martin Schulze
* Added my pidfile.[ch] to it to perform a better handling with pidfiles.
* Now both, syslogd and klogd, can only be started once. They check the
  pidfile.
* Fri Nov 17 15:05:43 CST 1995: Dr. Wettstein
* Added support for kernel address translation. This required moving
  some definitions and includes to the new klogd.h file. Some small
  code cleanups and modifications.
* Mon Nov 20 10:03:39 MET 1995
* Added -v option to print the version and exit.
* Thu Jan 18 11:19:46 CST 1996: Dr. Wettstein
* Added suggested patches from beta-testers. These address two
  two problems. The first is segmentation faults which occur with
  the ELF libraries. This was caused by passing a null pointer to
  the strcmp function.
* Added a second patch to remove the pidfile as part of the
  termination cleanup sequence. This minimizes the potential for
  conflicting pidfiles causing immediate termination at boot time.
* Wed Aug 21 09:13:03 CDT 1996: Dr. Wettstein
* Added ability to reload static symbols and kernel module symbols
  under control of SIGUSR1 and SIGUSR2 signals.
* Added -p switch to select 'paranoid' behavior with respect to the
  loading of kernel module symbols.
* Informative line now printed whenever a state change occurs due
  to signal reception by the daemon.
* Added the -i and -l command line switches to signal the currently
  executing daemon.
* Tue Nov 19 10:15:36 PST 1996: Leland Olds <olds@eskimo.com>
* Corrected vulnerability to buffer overruns by rewriting LogLine
*routine. Obscenely long kernel messages will now be broken up
*into lines no longer than LOG_LINE_LENGTH.
*
*The last version of LogLine was vulnerable to buffer overruns:
* Kernel messages longer than LOG_LINE_LENGTH caused a buffer
* overrun.
* If a line was determined to be shorter than LOG_LINE_LENGTH,
* the routine "ExpandKadds" could cause the line grow by
* an unknown amount and overrun a buffer.
*I turned these routines into a little parsing state machine that
*should not have these problems.
*
*Some more glibc patches made by <mdorman@debian.org>.
*
* Thu Aug 21 12:11:27 MET DST 1997: Martin Schulze <joey@infodrom.north.de>
*Fixed little mistake which prevented klogd from accepting a
*console log
*
* Fri Jan  9 00:39:52 CET 1998: Martin Schulze <joey@infodrom.north.de>
*Changed the behaviour of klogd when receiving a terminate
*signal. Now the program terminates immediately instead of
*completing the receipt of a kernel message, i.e the read()
*call. The old behaviour could result in klogd being
*recognized as being undead, because it'll only die after a
*message has been received.
*
* Fri Jan  9 11:03:48 CET 1998: Martin Schulze <joey@infodrom.north.de>
*Corrected some code that caused klogd to dump core when
*receiving messages containing '%', some of them exist in
*2.1.78. Thanks to Chu-yeon Park <kokids@doit.ajou.ac.kr> for
*informing me.
*
* Fri Jan  9 23:38:19 CET 1998: Florian La Roche <florian@knorke.saar.de>
*Added -x switch to omit EIP translation and System.map evaluation.
*
* Sun Jan 25 20:47:46 CET 1998: Martin Schulze <joey@infodrom.north.de>
*As the bug covering the %’s introduced a problem with
*unevaluated priorities I’ve worked out a real fix that strips
*%’s to an even number which is harmless for printf.
*
* Sat Oct 10 20:01:48 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Added support for TESTING define which will turn klogd into
*stdio-mode used for debugging.
*
* Mon Apr 13 18:18:45 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Modified System.map read function to try all possible map
*files until a file with matching version is found. Added support for
* Debian release.

* Mon Oct 12 13:01:27 MET DST 1998: Martin Schulze <joey@infodrom.north.de>
  * Used unsigned long and strtoul() to resolve kernel oops symbols.

* Sun Jan  3 18:38:03 CET 1999: Martin Schulze <joey@infodrom.north.de>
  * Shortened LOG_LINE_LENGTH in order to get long lines splitted
    * up earlier and syslogd has a better chance concatenating them
    * together again.

* Sat Aug 21 12:27:02 CEST 1999: Martin Schulze <joey@infodrom.north.de>
  * Skip newline when reading in messages.

* Tue Sep 12 22:14:33 CEST 2000: Martin Schulze <joey@infodrom.ffis.de>
  * Don't feed a buffer directly to a printf-type routine, use
    * "%s" as format string instead. Thanks to Jouko Pynninen
    * <jouko@solutions.fi> for pointing this out.

* Tue Sep 12 22:44:57 CEST 2000: Martin Schulze <joey@infodrom.ffis.de>
  * Commandline option `-2': When symbols are expanded, print the
    * line twice. Once with addresses converted to symbols, once with the
    * raw text. Allows external programs such as ksymoops do their own
    * processing on the original data. Thanks to Keith Owens
    * <kaos@ocs.com.au> for the patch.

* Mon Sep 18 09:32:27 CEST 2000: Martin Schulze <joey@infodrom.ffis.de>
  * Added patch to fix priority decoding after moving kernel
    * messages into "%s". Thanks to Solar Designer
    * <solar@false.com> for the patch.

* Sun Mar 11 20:23:44 CET 2001: Martin Schulze <joey@infodrom.ffis.de>
  * Stop LogLine() from being called with wrong argument when a
    * former calculation failed already. Thanks to Thomas Roessler
    * <roessler@does-not-exist.org> for providing a patch.

* Sun May 27 16:33:18 2007: Martin Schulze <joey@infodrom.org>
  * Improved daemonise routine to stabilise startup.

* Mon May 28 18:07:59 CEST 2007: Matthew Fischer <futhark@vzavenue.net>
/* Remove special treatment of the percent sign. */

/* Includes. */
#include <unistd.h>
#include <signal.h>
#include <errno.h>
#include <sys/fcntl.h>
#include <sys/stat.h>
#if !defined(__GLIBC__)
#include <linux/time.h>
#endif /* __GLIBC__ */
#include <stdarg.h>
#include <paths.h>
#include <stdlib.h>
#include "klogd.h"
#include "ksyms.h"
#ifndef TESTING
#include "pidfile.h"
#endif
#include "version.h"

#define __LIBRARY__
#include <linux/unistd.h>
#if !defined(__GLIBC__)
#define __NR_ksyslog __NR_syslog
#endif
#include <sys/klog.h>
#define ksyslog klogctl
#endif

#define LOG_BUFFER_SIZE 4096
#define LOG_LINE_LENGTH 1000

#ifndef TESTING
#if defined(FSSTND)
static char	*PidFile = _PATH_VARRUN "klogd.pid";
#else
static char	*PidFile = "/etc/klogd.pid";
#endif
#endif

static int	kmsg, change_state = 0, terminate = 0, caught_TSTP = 0,
reload_symbols = 0,
console_log_level = -1;

static int use_syscall = 0,
one_shot = 0,
symbol_lookup = 1,
no_fork = 0;/* don't fork - don't run in daemon mode */

static char *symfile = (char *) 0,
log_buffer[LOG_BUFFER_SIZE];

static FILE *output_file = (FILE *) 0;

static enum LOGSRC {none, proc, kernel} logsrc;

int debugging = 0;
int symbols_twice = 0;

/* Function prototypes. */
extern int ksyslog(int type, char *buf, int len);
static void CloseLogSrc(void);
extern void restart(int sig);
extern void stop_logging(int sig);
extern void stop_daemon(int sig);
extern void reload_daemon(int sig);
static void Terminate(void);
static void SignalDaemon(int);
static void ReloadSymbols(void);
static void ChangeLogging(void);
static enum LOGSRC GetKernelLogSrc(void);
static void LogLine(char *ptr, int len);
static void LogKernelLine(void);
static void LogProcLine(void);
extern int main(int argc, char *argv[]);

static void CloseLogSrc()
{
    /* Shutdown the log sources. */
    switch ( logsrc )
    {
    case kernel:
        ksyslog(0, 0, 0);
        Syslog(LOG_INFO, "Kernel logging (ksyslog) stopped.");
        break;
    case proc:
close(kmsg);
Syslog(LOG_INFO, "Kernel logging (proc) stopped.");
break;
    case none:
break;
}

if ( output_file != (FILE *) 0 )
    fflush(output_file);
    return;
}

/*
 * Signal handler to terminate the parent process.
 */
#ifndef TESTING
void doexit(sig)

int sig;

{
    exit (0);
}
#endif

void restart(sig)

int sig;

{
    signal(SIGCONT, restart);
    change_state = 1;
    caught_TSTP = 0;
    return;
}

void stop_logging(sig)

int sig;

{
    signal(SIGTSTP, stop_logging);
    change_state = 1;
    caught_TSTP = 1;
    return;
}
void stop_daemon(sig)

int sig;

{
    Terminate();
    return;
}

void reload_daemon(sig)

int sig;

{
    change_state = 1;
    reload_symbols = 1;

    if ( sig == SIGUSR2 )
    {
        ++reload_symbols;
        signal(SIGUSR2, reload_daemon);
    }
    else
        signal(SIGUSR1, reload_daemon);

    return;
}

static void Terminate()

{
    CloseLogSrc();
    Syslog(LOG_INFO, "Kernel log daemon terminating.");
    sleep(1);
    if ( output_file != (FILE *) 0 )
        fclose(output_file);
    closelog();
    #ifndef TESTING
        (void) remove_pid(PidFile);
    #endif
    exit(1);
}
static void SignalDaemon(sig)

    int sig;

{
    #ifndef TESTING
    auto int pid = check_pid(PidFile);

    kill(pid, sig);
    #else
    kill(getpid(), sig);
    #endif
    return;
}

static void ReloadSymbols()

{
if (symbol_lookup) {
if ( reload_symbols > 1 )
InitKsysms(symfile);
InitMsyms();
}
reload_symbols = change_state = 0;
return;
}

static void ChangeLogging(void)

{
/* Terminate kernel logging. */
if ( terminate == 1 )
Terminate();

/* Indicate that something is happening. */
Syslog(LOG_INFO, "klogd %s.%s, --------- state change ---------\n", 
      VERSION, PATCHLEVEL);

/* Reload symbols. */
if ( reload_symbols > 0 )
{
ReloadSymbols();
return;
}

/* Stop kernel logging. */
if ( caught_TSTP == 1 )
{
    CloseLogSrc();
    logsrc = none;
    change_state = 0;
    return;
}

/*
 * The rest of this function is responsible for restarting
 * kernel logging after it was stopped.
 *
 * In the following section we make a decision based on the
 * kernel log state as to what is causing us to restart. Somewhat
 * groady but it keeps us from creating another static variable.
 */
if ( logsrc != none )
{
    Syslog(LOG_INFO, "Kernel logging re-started after SIGSTOP.");
    change_state = 0;
    return;
}

/* Restart logging. */
logsrc = GetKernelLogSrc();
change_state = 0;
return;
}

static enum LOGSRC GetKernelLogSrc(void)
{
    auto struct stat sb;

    /* Set level of kernel console messaging. */
    if ( (console_log_level != -1)
        && (ksyslog(8, NULL, console_log_level) < 0) 
            && (errno == EINVAL) )
    {
        /*
         * An invalid argument error probably indicates that
         * a pre-0.14 kernel is being run. At this point we
         * issue an error message and simply shut-off console
         * logging completely.
         */
        Syslog(LOG_WARNING, "Cannot set console log level - disabling ")
    }
"console output.");
}

/**
* First do a stat to determine whether or not the proc based
* file system is available to get kernel messages from.
*/
if ( use_syscall ||
   ((stat(_PATH_KLOG, &sb) < 0) && (errno == ENOENT)) )
{
    /* Initialize kernel logging. */
    ksyslog(1, NULL, 0):
    #ifdef DEBRELEASE
    Syslog(LOG_INFO, "klogd %s.%s#%s, log source = ksyslog 
            "started.", VERSION, PATCHLEVEL, DEBRELEASE);
    #else
    Syslog(LOG_INFO, "klogd %s.%s, log source = ksyslog 
            "started.", VERSION, PATCHLEVEL);
    #endif
    return(kernel);
}

#ifndef TESTING
if ( (kmsg = open(_PATH_KLOG, O_RDONLY)) < 0 )
{
    fprintf(stderr, "klogd: Cannot open proc file system, ": 
            "%d - %s.
" %d - %s\n", errno, strerror(errno));
    ksyslog(7, NULL, 0);
    exit(1);
}
#else
kmsg = fileno(stdin);
#endif

#ifndef DEBRELEASE
Syslog(LOG_INFO, "klogd %s.%s#%s, log source = %s started.", 
       VERSION, PATCHLEVEL, DEBRELEASE, _PATH_KLOG);
#else
Syslog(LOG_INFO, "klogd %s.%s, log source = %s started.", 
       VERSION, PATCHLEVEL, _PATH_KLOG);
#endif
return(proc);
}

extern void Syslog(int priority, char *fmt, ...)
va_list ap;
char *argl;

if (debugging)
{
    fputs("Logging line:\n", stderr);
    fprintf(stderr, "\tLine: %s\n", fmt);
    fprintf(stderr, "\tPriority: %d\n", priority);
}

/* Handle output to a file. */
if (output_file != (FILE *) 0)
{
    va_start(ap, fmt);
    vfprintf(output_file, fmt, ap);
    va_end(ap);
    fputc('
', output_file);
    fflush(output_file);
    if (!one_shot)
        fsync(fileno(output_file));
    return;
}

/* Output using syslog. */
if (!strcmp(fmt, "%s"))
{
    va_start(ap, fmt);
    argl = va_arg(ap, char *);
    {
        switch (argl[1])
        {
        case '0':
            priority = LOG_EMERG;
            break;
        case '1':
            priority = LOG_ALERT;
            break;
        case '2':
            priority = LOG_CRIT;
            break;
        case '3':
            priority = LOG_ERR;
            break;
        case '4':
            priority = LOG_WARNING;
            break;
        case '5':
            priority = LOG_NOTICE;
            break;
        case '6':
            priority = LOG_INFO;
            break;
        case '7':
            priority = LOG_DEBUG;
            break;
        }
    }
}
priority = LOG_NOTICE;
break;
case '6':
priority = LOG_INFO;
break;
case '7':
default:
priority = LOG_DEBUG;
}
argl += 3;
}
syslog(priority, fmt, argl);
va_end(ap);
#endif TESTING
putchar(\n');
#endif
return;
}

va_start(ap, fmt);
vsyslog(priority, fmt, ap);
va_end(ap);
#endif TESTING
printf (\n');
#endif
return;
}

/*
 * Copy characters from ptr to line until a char in the delim
 * string is encountered or until min( space, len ) chars have
 * been copied.
 *
 * Returns the actual number of chars copied.
 */
static int copyin( char *line,      int space,
const char *ptr, int len,
const char *delim )
{
    auto int i;
    auto int count;

    count = len < space ? len : space;

    for(i=0; i<count && !strchr(delim, *ptr); i++) { *line++ = *ptr++; }


return( i );
}

/*
* Messages are separated by "\n". Messages longer than
* LOG_LINE_LENGTH are broken up.
*
* Kernel symbols show up in the input buffer as : "[<aaaaa>]",
* where "aaaaa" is the address. These are replaced with
* "[symbolname+offset/size]" in the output line - symbolname,
* offset, and size come from the kernel symbol table.
*
* If a kernel symbol happens to fall at the end of a message close
* in length to LOG_LINE_LENGTH, the symbol will not be expanded.
* (This should never happen, since the kernel should never generate
* messages that long.
* *
* To preserve the original addresses, lines containing kernel symbols
* are output twice. Once with the symbols converted and again with the
* original text. Just in case somebody wants to run their own Oops
* analysis on the syslog, e.g. ksymoops.
*/
static void LogLine(char *ptr, int len)
{
    enum parse_state_enum {
        PARSING_TEXT,
        PARSING_SYMSTART,      /* at < */
        PARSING_SYMBOL,
        PARSING_SYMEND         /* at ] */
    };

    static char line_buff[LOG_LINE_LENGTH];

    static char *line = line_buff;
    static enum parse_state_enum parse_state = PARSING_TEXT;
    static int space = sizeof(line_buff)-1;

    static char *sym_start;            /* points at the '<' of a symbol */
    auto   int delta = 0;              /* number of chars copied */
    auto   int symbols_expanded = 0;   /* 1 if symbols were expanded */
    auto   int skip_symbol_lookup = 0; /* skip symbol lookup on this pass */
    auto   char *save_ptr = ptr;       /* save start of input line */
    auto   int save_len = len;         /* save length at start of input line */

    while( len > 0 )
    {
        if( space == 0 )    /* line buffer is full */
/*
** Line too long. Start a new line.
*/
*line = 0; /* force null terminator */

if ( debugging )
{
    fputs("Line buffer full:\n", stderr);
    fprintf(stderr, "\tLine: %s\n", line);
}

Syslog( LOG_INFO, "%s", line_buff );
line = line_buff;
space = sizeof(line_buff)-1;
parse_state = PARSING_TEXT;
symbols_expanded = 0;
skip_symbol_lookup = 0;
save_ptr = ptr;
save_len = len;
}

switch( parse_state )
{
case PARSING_TEXT:
delta = copyin( line, space, ptr, len, "\n\[");
    line += delta;
    ptr += delta;
    space -= delta;
    len -= delta;

    if( space == 0 || len == 0 )
    {
        break; /* full line_buff or end of input buffer */
    }

    if( *ptr == '\0' ) /* zero byte */
    {
        ptr++; /* skip zero byte */
        space -= 1;
        len -= 1;

        break;
    }

    if( *ptr == '\n' ) /* newline */
    {
        ptr++; /* skip newline */

        break;
    }
}
space -= 1;
len -= 1;

*line = 0; /* force null terminator */
Syslog( LOG_INFO, "%s", line_buff );
line = line_buff;
space = sizeof(line_buff)-1;
if (symbols_twice) {
    if (symbols_expanded) {
        /* reprint this line without symbol lookup */
symbols_expanded = 0;
skip_symbol_lookup = 1;
ptr = save_ptr;
len = save_len;
    }
else
    {
    skip_symbol_lookup = 0;
save_ptr = ptr;
save_len = len;
    }
}
break;
}
if( *ptr == '[' ) /* possible kernel symbol */
{
    *line++ = *ptr++;
space -= 1;
len -= 1;
if (!skip_symbol_lookup)
    parse_state = PARSING_SYMSTART;      /* at < */
break;
}
break;

case PARSING_SYMSTART:
if( *ptr != '<' )
{
    parse_state = PARSING_TEXT;        /* not a symbol */
break;
}
break;

    /*
    ** Save this character for now. If this turns out to
    ** be a valid symbol, this char will be replaced later.
    ** If not, we'll just leave it there.
    */
sym_start = line; /* this will point at the '<' */

*line++ = *ptr++;
space -= 1;
len -= 1;
parse_state = PARSING_SYMBOL; /* symbol... */
break;

case PARSING_SYMBOL:
    delta = copyin( line, space, ptr, len, "\n\" );
    line += delta;
    ptr += delta;
    space -= delta;
    len -= delta;
    if( space == 0 || len == 0 )
    {
        break; /* full line_buff or end of input buffer */
    }
    if( *ptr != '>' )
    {
        parse_state = PARSING_TEXT;
        break;
    }
    *line++ = *ptr++; /* copy the '>' */
    space -= 1;
    len -= 1;

    parse_state = PARSING_SYMEND;
    break;

case PARSING_SYMEND:
    if( *ptr != '\' )
    {
        parse_state = PARSING_TEXT; /* not a symbol */
        break;
    }

    /*
    ** It's really a symbol! Replace address with the
    ** symbol text.
    */
    {
        auto int sym_space;
        unsigned long value;
        auto struct symbol sym;


auto char *symbol;

*(line-1) = 0; /* null terminate the address string */
value = strtoul(sym_start+1, (char **) 0, 16);
*(line-1) = '>'; /* put back delim */

symbol = LookupSymbol(value, &sym);
if ( !symbol_lookup || symbol == (char *) 0 )
{
    parse_state = PARSING_TEXT;
    break;
}

/*
 ** verify there is room in the line buffer
 */
sym_space = space + ( line - sym_start );
if( sym_space < strlen(symbol) + 30 ) /*(30 should be overkill)*/
{
    parse_state = PARSING_TEXT; /* not enough space */
    break;
}

delta = sprintf( sym_start, "%s+0x%x/0x%02x"]",
                symbol, sym.offset, sym.size );

    space = sym_space + delta;
    line = sym_start + delta;
symbols_expanded = 1;
}
ptr++;
len--;
    parse_state = PARSING_TEXT;
    break;

default: /* Can't get here! */
    parse_state = PARSING_TEXT;

    }
}
return;
}

static void LogKernelLine(void)
auto int rdcnt;

/*
 *  Zero-fill the log buffer. This should cure a multitude of
 *  problems with klogd logging the tail end of the message buffer
 *  which will contain old messages. Then read the kernel log
 *  messages into this fresh buffer.
 */
memset(log_buffer, '0', sizeof(log_buffer));
if ( (rdcnt = ksyslog(2, log_buffer, sizeof(log_buffer)-1)) < 0 )
{
    if ( errno == EINTR )
        return;
    fprintf(stderr, "klogd: Error return from sys_sycall: "
            "%d - %s\n", errno, strerror(errno));
}
else
    LogLine(log_buffer, rdcnt);
return;

static void LogProcLine(void)
{
    auto int rdcnt;

    /*
     *  Zero-fill the log buffer. This should cure a multitude of
     *  problems with klogd logging the tail end of the message buffer
     *  which will contain old messages. Then read the kernel messages
     *  from the message pseudo-file into this fresh buffer.
     */
    memset(log_buffer, '0', sizeof(log_buffer));
    if ( (rdcnt = read(kmsg, log_buffer, sizeof(log_buffer)-1)) < 0 )
    {
        if ( errno == EINTR )
            return;
        Syslog(LOG_ERR, "Cannot read proc file system: %d - %s.\n",
                errno, strerror(errno));
    }
    else
        LogLine(log_buffer, rdcnt);
    return;
}
int main(argc, argv)

int argc;

char *argv[];

{
  auto int ch,
  use_output = 0;

  auto char*log_level = (char *) 0,
  *output = (char *) 0;

#ififndef TESTING
  pid_t ppid = getpid();
  chdir ("/");
#endif
/* Parse the command-line. */
while ((ch = getopt(argc, argv, "c:df:iIk:nopsvx2")) != EOF)
  switch((char)ch)
  {
    case '2':/* Print lines with symbols twice. */
      symbols_twice = 1;
      break;
    case 'c':/* Set console message level. */
      log_level = optarg;
      break;
    case 'd':/* Activity debug mode. */
      debugging = 1;
      break;
    case 'f':/* Define an output file. */
      output = optarg;
      use_output++;
      break;
    case 'i':/* Reload module symbols. */
      SignalDaemon(SIGUSR1);
      return(0);
    case 'k':/* Kernel symbol file. */
      symfile = optarg;
      break;
    case 'n':/* don't fork */
      no_fork++;
      break;
    case 'o':/* One-shot mode. */
      one_shot = 1;
      break;
  }
break;
    case 'p':
    SetParanoiaLevel(1); /* Load symbols on oops. */
    break;
    case 's': /* Use syscall interface. */
    use_syscall = 1;
    break;
    case 'v':
    printf("klogd %s.%s\n", VERSION, PATCHLEVEL);
    exit (1);
    case 'x':
    symbol_lookup = 0;
    break;
}

/* Set console logging level. */
if ( log_level != (char *) 0 )
{
    if ( (strlen(log_level) > 1) ||
            (strchr("12345678", *log_level) == (char *) 0) )
    {
        fprintf(stderr, "klogd: Invalid console logging "
                "level <%s> specified.\n", log_level);
        return(1);
    }
    console_log_level = *log_level - '0';
}

#ifndef TESTING
/*
 * The following code allows klogd to auto-background itself.
 * What happens is that the program forks and the parent quits.
 * The child closes all its open file descriptors, and issues a
 * call to setsid to establish itself as an independent session
 * immune from control signals.
 * *
 * fork() is only called if it should run in daemon mode, fork is
 * not disabled with the command line argument and there's no
 * such process running.
 * */
 if ( !one_shot )
 {
     if ( !check_pid(PidFile) )
    {
        signal (SIGTERM, doexit);
        if ( fork() == 0 )
            doexit();
    }
#endif
auto int fl;
int num_fds = getdtablesize();

signal (SIGTERM, SIG_DFL);

/* This is the child closing its file descriptors. */
for (fl= 0; fl <= num_fds; ++fl)
{
    if ( fileno(stdout) == fl && use_output )
        if ( strcmp(output, ".") == 0 )
            continue;
    close(fl);
}

setsid();
}
else
{
    /*
     * Parent process
     */
    sleep(300);
    /*
     * Not reached unless something major went wrong.
     */
    exit(1);
}
else
{
    fputs("klogd: Already running.
", stderr);
    exit(1);
}

/* tuck my process id away */
if (!check_pid(PidFile))
{
    if (!write_pid(PidFile))
        Terminate();
    else
    {
        fputs("klogd: Already running.
", stderr);
        Terminate();
    }
}
/* Signal setups. */
for (ch= 1; ch < NSIG; ++ch)
signal(ch, SIG_IGN);
signal(SIGINT, stop_daemon);
signal(SIGKILL, stop_daemon);
signal(SIGTERM, stop_daemon);
signal(SIGHUP, stop_daemon);
signal(SIGTSTP, stop_logging);
signal(SIGCONT, restart);
signal(SIGUSR1, reload_daemon);
signal(SIGUSR2, reload_daemon);

/* Open outputs. */
if ( use_output )
{
  if ( strcmp(output, ".") == 0 )
    output_file = stdout;
  else if ( (output_file = fopen(output, "w")) == (FILE *) 0 )
    {
      fprintf(stderr, "klogd: Cannot open output file \
" "%s - %s\n", output, strerror(errno));
      return(1);
    }
  else
    openlog("kernel", 0, LOG_KERN);

/* Handle one-shot logging. */
if ( one_shot )
{
  if (symbol_lookup) {
    InitKsymms(symfile);
    InitMsyms();
  }
  if ( (logsrc = GetKernelLogSrc()) == kernel )
    LogKernelLine();
  else
    LogProcLine();
  Terminate();
}

/* Determine where kernel logging information is to come from. */
#if defined(KLOGD_DELAY)
sleep(KLOGD_DELAY);
#endif
logsrc = GetKernelLogSrc();
if (symbol_lookup) {
    InitKsym(symfile);
    InitMsyms();
}

#ifndef TESTING
if (getpid() != ppid)
    kill (ppid, SIGTERM);
#endif

    /* The main loop. */
while (1)
{
    if ( change_state )
        ChangeLogging();
    switch ( logsrc )
    {
    case kernel:
        LogKernelLine();
        break;
    case proc:
        LogProcLine();
        break;
    case none:
        pause();
        break;
    }
}
}
/*
 * Local variables:
 * c-indent-level: 8
 * c-basic-offset: 8
 * tab-width: 8
 * End:
 */
/*
 * Copyright (c) 1983, 1988 Regents of the University of California.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms are permitted
 * provided that the above copyright notice and this paragraph are
 * duplicated in all such forms and that any documentation,
 * advertising materials, and other materials related to such
 * distribution and use acknowledge that the software was developed
 * by the University of California, Berkeley. The name of the
 */
*/

#include <syslog.h>

/*
 * syslogd -- log system messages
 *
 * This program implements a system log. It takes a series of lines.
 * Each line may have a priority, signified as "<n>" as
 * the first characters of the line. If this is
 * not present, a default priority is used.
 *
 * To kill syslogd, send a signal 15 (terminate). A signal 1 (hup) will
 * cause it to reread its configuration file.
 *
 * Defined Constants:
 *
 * MAXLINE -- the maximum line length that can be handled.
 * DEFUPRI -- the default priority for user messages
 * DEFSPRI -- the default priority for kernel messages
 *
 * Author: Eric Allman
 * extensive changes by Ralph Campbell
 * more extensive changes by Eric Allman (again)
 *
 * Steve Lord: Fix UNIX domain socket code, added linux kernel logging
 *change defines to
 *SYSLOG_INET- listen on a UDP socket
 *SYSLOG_UNIXAF- listen on unix domain socket
 *SYSLOG_KERNEL- listen to linux kernel
 *
 * Mon Feb 22 09:55:42 CST 1993: Dr. Wettstein
 * Additional modifications to the source. Changed priority scheme
 *to increase the level of configurability. In its stock configuration
 *syslogd no longer logs all messages of a certain priority and above
*/

char copyright2[] = "@(#) Copyright (c) 1983, 1988 Regents of the University of California.
All rights reserved.
";
#endif /* not lint */

static char sccsid[] = "@(#)syslogd.c 5.27 (Berkeley) 10/10/88";
#endif /* not lint */

erializer: mona@onl-116.19.10.93:~$
*to a log file. The * wildcard is supported to specify all priorities.
*Note that this is a departure from the BSD standard.
*
*Syslogd will now listen to both the inetd and the unixd socket. The
*strategy is to allow all local programs to direct their output to
*syslogd through the unixd socket while the program listens to the
*inetd socket to get messages forwarded from other hosts.
*
* Fri Mar 12 16:55:33 CST 1993: Dr. Wettstein
* Thanks to Stephen Tweedie (dcs.ed.ac.uk!sct) for helpful bug-fixes
* and an enlightened commentary on the prioritization problem.
*
*Changed the priority scheme so that the default behavior mimics the
*standard BSD. In this scenario all messages of a specified priority
*and above are logged.
*
*Add the ability to specify a wildcard (=) as the first character
*of the priority name. Doing this specifies that ONLY messages with
*this level of priority are to be logged. For example:
*
**.=debug/usr/adm/debug
*
*Would log only messages with a priority of debug to the /usr/adm/debug
*file.
*
*Providing an * as the priority specifies that all messages are to be
*logged. Note that this case is degenerate with specifying a priority
*level of debug. The wildcard * was retained because I believe that
*this is more intuitive.
*
* Thu Jun 24 11:34:13 CDT 1993: Dr. Wettstein
*Modified sources to incorporate changes in libc4.4. Messages from
*syslog are now null-terminated, syslogd code now parses messages
*based on this termination scheme. Linux as of libc4.4 supports the
*fsync system call. Modified code to fsync after all writes to
*log files.
*
* Sat Dec 11 11:59:43 CST 1993: Dr. Wettstein
*Extensive changes to the source code to allow compilation with no
*complaints with -Wall.
*
*Reorganized the facility and priority name arrays so that they
*compatible with the syslog.h source found in /usr/include/syslog.h.
*NOTE that this should really be changed. The reason I do not
*allow the use of the values defined in syslog.h is on account of
*the extensions made to allow the wildcard character in the
*priority field. To fix this properly one should malloc an array,
*copy the contents of the array defined by syslog.h and then
*make whatever modifications that are desired. Next round.*

* Thu Jan  6 12:07:36 CST 1994: Dr. Wettstein
*Added support for proper decomposition and re-assembly of
*fragment messages on UNIX domain sockets. Lack of this capability
*was causing 'partial' messages to be output. Since facility and
*priority information is encoded as a leader on the messages this
*was causing lines to be placed in erroneous files.
*
*Also added a patch from Shane Alderton (shane@ion.apana.org.au) to
*correct a problem with syslogd dumping core when an attempt was made
*to write log messages to a logged-on user. Thank you.
*
*Many thanks to Juha Virtanen (jiivee@hut.fi) for a series of
*interchanges which lead to the fixing of problems with messages set
*to priorities of none and emerg. Also thanks to Juha for a patch
*to exclude users with a class of LOGIN from receiving messages.
*
*Shane Alderton provided an additional patch to fix zombies which
*were conceived when messages were written to multiple users.
*
* Mon Feb  6 09:57:10 CST 1995: Dr. Wettstein
*Patch to properly reset the single priority message flag. Thanks
*to Christopher Gori for spotting this bug and forwarding a patch.
*
* Wed Feb 22 15:38:31 CST 1995: Dr. Wettstein
*Added version information to startup messages.
*
*Added defines so that paths to important files are taken from
*the definitions in paths.h. Hopefully this will insure that
*everything follows the FSSTND standards. Thanks to Chris Metcalf
*for a set of patches to provide this functionality. Also thanks
*Elias Levy for prompting me to get these into the sources.
*
*Linux' gethostname only returns the hostname and not the fqdn as
*expected in the code. But if you call hostname with an fqdn then
*gethostname will return an fqdn, so we have to mention that. This
*has been changed.
*
*The 'LocalDomain' and the hostname of a remote machine is
*converted to lower case, because the original caused some
*inconsistency, because the (at least my) nameserver did respond an
*fqdn containing of upper-_and_ lowercase letters while
*'LocalDomain' consisted only of lowercase letters and that didn't
*match.
*
* Sat Aug  5 18:59:15 MET DST 1995: Martin Schulze
Now no messages that were received from any remote host are sent out to another. At my domain this missing feature caused ugly syslog-loops, sometimes.

Remember that no message is sent out. I can't figure out any scenario where it might be useful to change this behavior and to send out messages to other hosts than the one from which we received the message, but I might be shortsighted. :-/

Thu Aug 10 19:01:08 MET DST 1995: Martin Schulze
Added my pidfile.[ch] to it to perform a better handling with pidfiles. Now both, syslogd and klogd, can only be started once. They check the pidfile.

Sun Aug 13 19:01:41 MET DST 1995: Martin Schulze
Add an addition to syslog.conf's interpretation. If a priority begins with an exclamation mark ('!') the normal interpretation of the priority is inverted: ".!*=" is the same as ".none", ".!=info"

don't logs the info priority, ".!crit" won't log any message with the priority crit or higher. For example:

mail.*;mail.!=info/usr/adm/mail

Would log all messages of the facility mail except those with the priority info to /usr/adm/mail. This makes the syslogd much more flexible.

Defined TABLE_ALLPRI=255 and changed some occurrences.

Making the table of facilities and priorities while in debug mode more readable.

If debugging is turned on, printing the whole table of facilities and priorities every hexadecimal or 'X' entry is now 2 characters wide.

The number of the entry is prepended to each line of facilities and priorities, and F_UNUSED lines are not shown anymore.

Corrected some #ifdef SYSV's.

Corrected a strange behavior during parsing of configuration file. The original BSD syslogd doesn't understand spaces as separators between specifier and action. This syslogd now understands them. The old behavior caused some confusion over
*the Linux community.
*
* Thu Oct 19 00:02:07 MET 1995: Martin Schulze
*The default behavior has changed for security reasons. The
*syslogd will not receive any remote message unless you turn
*reception on with the ",r" option.
*
*Not defining SYSLOG_INET will result in not doing any network
*activity, i.e. not sending or receiving messages. I changed
*this because the old idea is implemented with the ",r" option
*and the old thing didn't work anyway.
*
*Added another logfile type F_FORW_UNKN. The problem I ran into
*was a name server that runs on my machine and a forwarder of
*kern.crit to another host. The hosts address can only be
*fetched using the nameserver. But named is started after
*syslogd, so syslogd complained.
*
*This logfile type will retry to get the address of the
*hostname ten times and then complain. This should be enough to
*get the named up and running during boot sequence.
*
* Fri Oct 27 14:08:15 1995: Dr. Wettstein
*Changed static array of logfiles to a dynamic array. This
*can grow during process.
*
* Fri Nov 10 23:08:18 1995: Martin Schulze
*Inserted a new tabular sys_h_errlist that contains plain text
*for error codes that are returned from the net subsystem and
*stored in h_errno. I have also changed some wrong lookups to
*sys_errlist.
*
*Added the fabulous strip-domain feature that allows us to
*strip off (several) domain names from the fqdn and only log
*the simple hostname. This is useful if you're in a LAN that
*has a central log server and also different domains.
*
*I have also also added the -l switch do define hosts as
*local. These will get logged with their simple hostname, too.
*
* Thu Nov 23 19:02:56 MET DST 1995: Martin Schulze
*Added the possibility to omit fsyncing of logfiles after every
*write. This will give some performance back if you have
*programs that log in a very verbose manner (like innd or
*smartlist). Thanks to Stephen R. van den Berg <srb@cuci.nl>
*for the idea.
* Thu Jan 18 11:14:36 CST 1996: Dr. Wettstein
  *Added patche from beta-testers to stop compile error. Also
  *added removal of pid file as part of termination cleanup.
  *
* Wed Feb 14 12:42:09 CST 1996: Dr. Wettstein
  *Allowed forwarding of messages received from remote hosts to
  *be controlled by a command-line switch. Specifying -h allows
  *forwarding. The default behavior is to disable forwarding of
  *messages which were received from a remote host.
  *
* Parent process of syslogd does not exit until child process has
  *finished initialization process. This allows re.* startup to
  *pause until syslogd facility is up and operating.
  *
* Re-arranged the select code to move UNIX domain socket accepts
  *to be processed later. This was a contributed change which
  *has been proposed to correct the delays sometimes encountered
  *when syslogd starts up.
  *
* Minor code cleanups.
  *
* Thu May  2 15:15:33 CDT 1996: Dr. Wettstein
  *Fixed bug in init function which resulted in file descriptors
  *being orphaned when syslogd process was re-initialized with SIGHUP
  *signal. Thanks to Edvard Tuinder
  *(Edvard.Tuinder@praseodymium.cistron.nl) for putting me on the
  *trail of this bug. I am amazed that we didn't catch this one
  *before now.
  *
* Tue May 14 00:03:35 MET DST 1996: Martin Schulze
  *Corrected a mistake that causes the syslogd to stop logging at
  *some virtual consoles under Linux. This was caused by checking
  *the wrong error code. Thanks to Michael Nonweiler
  *<mrn20@hermes.cam.ac.uk> for sending me a patch.
  *
* Mon May 20 13:29:32 MET DST 1996: Miquel van Smoorenburg <miquels@cistron.nl>
  *Added continuation line supported and fixed a bug in
  *the init() code.
  *
* Tue May 28 00:58:45 MET DST 1996: Martin Schulze
  *Corrected behaviour of blocking pipes - i.e. the whole system
  *hung. Michael Nonweiler <mrn20@hermes.cam.ac.uk> has sent us
  *a patch to correct this. A new logfile type F_PIPE has been
  *introduced.
  *
* Mon Feb 3 10:12:15 MET DST 1997: Martin Schulze
  *Corrected behaviour of logfiles if the file can't be opened.
*There was a bug that causes syslogd to try to log into non
*existing files which ate cpu power.
*
* Sun Feb 9 03:22:12 MET DST 1997: Martin Schulze
*Modified syslogd.c to not kill itself which confuses bash 2.0.
*
* Mon Feb 10 00:09:11 MET DST 1997: Martin Schulze
*Improved debug code to decode the numeric facility/priority
*pair into textual information.
*
* Tue Jun 10 12:35:10 MET DST 1997: Martin Schulze
*Corrected freeing of logfiles. Thanks to Jos Vos <jos@vos.nl>
*for reporting the bug and sending an idea to fix the problem.
*
* Tue Jun 10 12:51:41 MET DST 1997: Martin Schulze
*Removed sleep(10) from parent process. This has caused a slow
*startup in former times - and I don't see any reason for this.
*
*Some more glibc patches made by <mdorman@debian.org>.
*
* Thu Jan  1 16:04:52 CET 1998: Martin Schulze <joey@infodrom.north.de
*Applied patch from Herbert Thielen <Herbert.Thielen@lpr.e-technik.tu-muenchen.de>.
*This included some balance parentheses for emacs and a bug in
*the exclamation mark handling.
*
*Fixed small bug which caused syslogd to write messages to the
*wrong logfile under some very rare conditions. Thanks to
*Herbert Xu <herbert@gondor.apana.org.au> for fiddling this out.
*
* Thu Jan  8 22:46:35 CET 1998: Martin Schulze <joey@infodrom.north.de
*Reworked one line of the above patch as it prevented syslogd
*from binding the socket with the result that no messages were
*forwarded to other hosts.
*
* Sat Jan 10 01:33:06 CET 1998: Martin Schulze <joey@infodrom.north.de
*Fixed small bugs in F_FORW_UNKN meachanism. Thanks to Torsten
*Neumann <torsten@londo.rhein-main.de> for pointing me to it.
*
* Mon Jan 12 19:50:58 CET 1998: Martin Schulze <joey@infodrom.north.de
*Modified debug output concerning remote reception.
*
*Re-worked handling of Unix and UDP sockets to support closing /
*opening of them in order to have it open only if it is needed
*either for forwarding to a remote host or by reception from
*the network.
*
* Wed Feb 25 10:54:09 CET 1998: Martin Schulze <joey@infodrom.north.de>
*Fixed little comparison mistake that prevented the MARK
*feature to work properly.
*
*Corrected Topi's patch as it prevented forwarding during
*startup due to an unknown LogPort.
*
* Sat Oct 10 20:01:48 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Added support for TESTING define which will turn syslogd into
*stdio-mode used for debugging.
*
* Sun Oct 11 20:16:59 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Reworked the initialization/fork code. Now the parent
*process activates a signal handler which the daughter process
*will raise if it is initialized. Only after that one the
*parent process may exit. Otherwise klogd might try to flush
*its log cache while syslogd can't receive the messages yet.
*
* Mon Oct 12 13:30:35 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Redirected some error output with regard to argument parsing to
*stderr.
*
* Mon Oct 12 14:02:51 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Applied patch provided vom Topi Miettinen with regard to the
*people from OpenBSD. This provides the additional '-a'
*argument used for specifying additional UNIX domain sockets to
*listen to. This is been used with chroot()'ed named's for
*example. See for http://www.psionic.com/papers/dns.html
*
* Mon Oct 12 18:29:44 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Added `ftp' facility which was introduced in glibc version 2.
*It's #ifdef'ed so won't harm with older libraries.
*
* Mon Oct 12 19:59:21 MET DST 1998: Martin Schulze <joey@infodrom.north.de>
*Code cleanups with regard to bsd -> posix transition and
*stronger security (buffer length checking). Thanks to Topi
*Miettinen <tom@medialab.sonera.net>
* . index() --> strchr()
* . sprintf() --> snprintf()
* . bcopy() --> memcpy()
* . bzero() --> memset()
* . UNAMESZ --> UT_NAMESIZE
* . sys_errlist --> strerror()
*
*Added support for setutent()/getutent()/endutent() instead of
*binary reading the UTMP file. This is the the most portable
*way. This allows /var/run/utmp format to change, even to a
*real database or utmp daemon. Also if utmp file locking is
*implemented in libc, syslog will use it immediately. Thanks
*to Topi Miettinen <tom@medialab.sonera.net>.
*
* Mon Oct 12 20:49:18 MET DST 1998: Martin Schulze <joey@infodrom.north.de>
*Avoid logging of SIGCHLD when syslogd is in the process of
*exiting and closing its files. Again thanks to Topi.
*
* Mon Oct 12 22:18:34 CEST 1998: Martin Schulze <joey@infodrom.north.de>
*Modified printline() to support 8bit characters - such as
*russian letters. Thanks to Vladas Lapinskas <lapinskas@mail.iae.lt>.
*
* Sat Nov 14 02:29:37 CET 1998: Martin Schulze <joey@infodrom.north.de>
*``-m 0'' now turns of MARK logging entirely.
*
* Tue Jan 19 01:04:18 MET 1999: Martin Schulze <joey@infodrom.north.de>
*Finally fixed an error with `-a' processing, thanks to Topi
*Miettinen <tom@medialab.sonera.net>.
*
* Sun May 23 10:08:53 CEST 1999: Martin Schulze <joey@infodrom.north.de>
*Removed superflous call to utmpname(). The path to the utmp
*file is defined in the used libc and should not be hardcoded
*into the syslogd binary referring the system it was compiled on.
*
* Sun Sep 17 21:26:16 CEST 2000: Martin Schulze <joey@infodrom.ffis.de>
*Don't close open sockets upon reload. Thanks to Bill
*Nottingham.
*
* Mon Sep 18 09:10:47 CEST 2000: Martin Schulze <joey@infodrom.ffis.de>
*Fixed bug in printchopped() that caused syslogd to emit
*kern.emerg messages when splitting long lines. Thanks to
*Daniel Jacobowitz <dan@debian.org> for the fix.
*
* Mon Sep 18 15:33:26 CEST 2000: Martin Schulze <joey@infodrom.ffis.de>
*Removed unixm/unix domain sockets and switch to Datagram Unix
*Sockets. This should remove one possibility to play DoS with
*syslogd. Thanks to Olaf Kirch <okir@caldera.de> for the patch.
*
* Sun Mar 11 20:23:44 CET 2001: Martin Schulze <joey@infodrom.ffis.de>
*Don't return a closed fd if `-a' is called with a wrong path.
*Thanks to Bill Nottingham <notting@redhat.com> for providing
*a patch.
* Thu Apr 13 05:08:10 CEST 2001: Jon Burgess <Jon_Burgess@eur.3com.com>
*Moved the installation of the signal handler up a little bit
*so it guaranteed to be available when the child is forked.
*hence, fixing a race condition. This used to create problems
*with UML and fast machines.
* Sat Apr 17 18:03:05 CEST 2004: Steve Grubb <linux_4ever@yahoo.com>
* Correct memory allocation for for commandline arguments in
* crunch_list().
* 
* Thu Apr 29 12:38:39 CEST 2004: Solar Designer <solar@openwall.com>
* Applied Openwall paranoia patches to improve crunch_list().
* 
* Tue May  4 16:47:30 CEST 2004: Solar Designer <solar@openwall.com>
* Ensure that "len" is not placed in a register, and that the
* endtty() signal handler is not installed too early which could
* cause a segmentation fault or worse.
* 
* Tue May  4 16:52:01 CEST 2004: Solar Designer <solar@openwall.com>
* Adjust the size of a variable to prevent a buffer overflow
* should _PATH_DEV ever contain something different than "/dev/".
* 
* Tue Nov  2 20:28:23 CET 2004: Colin Phipps <cph@cph.demon.co.uk>
* Don't block on the network socket, in case a packet gets lost
* between select and recv.
*
* Sun Nov  7 12:28:47 CET 2004: Martin Schulze <joey@infodrom.org>
* Discard any timestamp information found in received syslog
* messages. This will affect local messages sent from a
* different timezone.
* 
* Sun Nov  7 13:47:00 CET 2004: Martin Schulze <joey@infodrom.org>
* Remove trailing newline when forwarding messages.
* 
* Thu May 25 09:47:38 CEST 2006: Martin Schulze <joey@infodrom.org>
* Reset the 'restart' flag immediately after entering the
* restart code, so that subsequent SIGHUPs are able to set it
* again and cause a new restart. This fixes a race condition
* when somebody sends tons of HUP signals.
* 
* Thu May 24 15:24:49 CEST 2007: Martin Schulze <joey@infodrom.org>
* Ignore errors caused by filled up disks so that the log
* continues to be written as soon as space becomes available
* again.
* 
* Sat May 26 10:05:05 CEST 2007: Martin Schulze <joey@infodrom.org>
* Only try to gather the local domain name when messages are to
* be received from the network, it's not needed otherwise.
* 
* Sat May 26 12:22:44 CEST 2007: Martin Schulze <joey@infodrom.org>
* Properly accompany the MARK message with the facility.
* 
* Mon May 28 19:44:39 CEST 2007: Martin Schulze <joey@infodrom.org>
*Notify the waiting parent process if the client dies to it
*doesn't wait the entire five minutes.
*
* Wed Jul 4 21:02:22 CEST 2007: Martin Schulze <joey@infodrom.org>
*Open a pipe with O_NOCTTY to avoid them becoming the controlling
*tty and normal files with O_NONBLOCK to avoid blocking.
*
* Fri Sep 10 08:29:04 CEST 2010: Martin Schulze <joey@infodrom.org>
* Replace strcpy with memmove to fix continuation line problems
* on 64bit architectures, patch by David Couture.
*/

#define MAXLINE 1024 /* maximum line length */
#define MAXSVLINE 240 /* maximum saved line length */
#define DEFUPRI (LOG_USER|LOG_NOTICE)
#define DEFSPRI (LOG_KERN|LOG_CRIT)
#define TIMERINTVL 30 /* interval for checking flush, mark */

#define CONT_LINE 1 /* Allow continuation lines */

#include <unistd.h>
#include <stdlib.h>
#include <stdio.h>
#ifdef SYSV
#include <sys/types.h>
#endif
#include <utmp.h>
#include <ctype.h>
#include <string.h>
#include <setjmp.h>
#include <stdarg.h>
#include <time.h>

#define SYSLOG_NAMES
#include <sys/syslog.h>
#include <sys/param.h>
#include <sys/errno.h>
#include <sys/ioctl.h>
#include <sys/stat.h>
#include <sys/wait.h>
#include <sys/socket.h>
#include <sys/file.h>
#ifdef SYSV
#include <fcntl.h>
#else
#include <sys/msgbuf.h>
#endif

#include <sys/msgbuf.h>
#include <sys/msg.h>
```c
#include <sys/uio.h>
#include <sys/un.h>
#include <sys/time.h>
#include <sys/resource.h>
#include <signal.h>
#include <netinet/in.h>
#include <netdb.h>
#include <syscall.h>
#include <arpa/nameser.h>
#include <arpa/inet.h>
#include <resolv.h>
#ifndef TESTING
#include "pidfile.h"
#endif
#include "version.h"

#if defined(__linux__)
#include <paths.h>
#endif

#ifndef UMP_FILE
#ifndef UMP_FILENAME
#define UMP_FILE UMP_FILENAME
#else
#if defined(_PATH_UMP)
#define UMP_FILE _PATH_UMP
#else
#define UMP_FILE="/etc/utmp"
#endif
#endif
#endif

#ifndef _PATH_LOGCONF
#define _PATH_LOGCONF	="/etc/syslog.conf"
#endif

#if defined(SYSLOGD_PIDNAME)
#undef _PATH_LOGPID
#if defined(FSSTND)
#define _PATH_LOGPID _PATH_VARRUN SYSLOGD_PIDNAME
#else
#define _PATH_LOGPID="/etc/" SYSLOGD_PIDNAME
#endif
#else
#if defined(_PATH_LOGPID)
#if defined(FSSTND)
#define _PATH_LOGPID _PATH_VARRUN "syslogd.pid"
```
#define TABLE_NOPRI	0	/* Value to indicate no priority in f_pmask */
#define TABLE_ALLPRI 0xFF	/* Value to indicate all priorities in f_pmask */
#define LOG_MARK
LOG_MAKEPRI(LOG_NFACILITIES, 0)/
/* mark "facility" */

/*
 * Flags to logmsg().
 */

#define IGN_CONS0x001/* don't print on console */
#define SYNC_FILE0x002/* do fsync on file after printing */
#define ADDDATE0x004/* add a date to the message */
#define MARK0x008/* this message is a mark */

/*
 * This table contains plain text for h_errno errors used by the
 * net subsystem.
 */

cconst char *sys_h_errlist[] = {
    "No problem", /* NETDB_SUCCESS */
    "Authoritative answer: host not found", /* HOST_NOT_FOUND */
    "Non-authoritative answer: host not found, or serverfail", /* TRY_AGAIN */
    "Non recoverable errors", /* NO_RECOVERY */
    "Valid name, no data record of requested type", /* NO_DATA */
    "no address, look for MX record" /* NO_ADDRESS */
};

/*
 * This structure represents the files that will have log
 * copies printed.
 */

struct filed {
    ifndef SYSV
    struct filed *f_next;/* next in linked list */
    #endif
    short f_type;/* entry type, see below */
    short f_file;/
    * file descriptor */
    time_t f_time;/
    * time this was last written */
    u_char f_pmask[LOG_NFACILITIES+1];/* priority mask */
    union {
        char f_uname[MAXUNAMES][UNAMESZ+1];
        struct {
            char f_hname[MAXHOSTNAMELEN+1];
            struct sockaddr_in f_addr;
        } f_forw;/* forwarding address */
        char f_fname[MAXFNAME];
    } f_un;
    char f_prevline[MAXSVLINE];/* last message logged */
char f_lasttime[16]; /* time of last occurrence */
char f_prevhost[MAXHOSTNAMELEN+1]; /* host from which recd. */
int f_prevpri; /* pri of f_prevline */
int f_prevlen; /* length of f_prevline */
int f_prevcount; /* repetition cnt of prevline */
int f_repeatcount; /* number of "repeated" msgs */
int f_flags; /* store some additional flags */
};

/*
* Intervals at which we flush out "message repeated" messages,
* in seconds after previous message is logged. After each flush,
* we move to the next interval until we reach the largest.
*/
int intrepeatinterval[] = { 30, 60 }; /* # of secs before flush */
#define MAXREPEAT ((sizeof(repeatinterval) / sizeof(repeatinterval[0])) - 1)
#define REPEATTIME(f)
    ((f)->f_time + repeatinterval[(f)->f_repeatcount])
#define BACKOFF(f)
    if (++(f)->f_repeatcount > MAXREPEAT) {
        (f)->f_repeatcount = MAXREPEAT;
    }
#endif
#define INET_SUSPEND_TIME 180 /* equal to 3 minutes */
#define INET_RETRY_MAX 10 /* maximum of retries for gethostbyname() */
#endif
#define LIST_DELIMITER ":" /* delimiter between two hosts */

/* values for f_type */
#define F_UNUSED 0 /* unused entry */
#define F_FILE /* regular file */
#define F_TTY /* terminal */
#define F_CONSOLE /* console terminal */
#define F_FORW /* remote machine */
#define F_USERS /* list of users */
#define F_WALL /* everyone logged on */
#define F_FORW_SUSP /* suspended host forwarding */
#define F_FORW_UNKN /* unknown host forwarding */
#define F_PIPE /* named pipe */
char*TypeNames[] = {
    "UNUSED", "FILE", "TTY", "CONSOLE",
    "FORW", "USERS", "WALL", "FORW(SUSPENDED)",
    "FORW(UNKNOWN)", "PIPE"
};

struct filed *Files = (struct filed *) 0;
struct filed consfile;

struct code {

}
char*c_name;
int c_val;
};

struct code
PriNames[] = {
    {"alert",LOG_ALERT},
    {"crit",LOG_CRIT},
    {"debug",LOG_DEBUG},
    {"emerg",LOG_EMERG},
    {"err",LOG_ERR},
    {"error",LOG_ERR}./* DEPRECATED */
    {"info",LOG_INFO},
    {"none",INTERNAL_NOPRI}./* INTERNAL */
    {"notice",LOG_NOTICE},
    {"panic",LOG_EMERG}./* DEPRECATED */
    {"warn",LOG_WARNING}./* DEPRECATED */
    {"warning",LOG_WARNING},
    {"*",TABLE_ALLPRI},
    {NULL,-1}
};

struct code
FacNames[] = {
    {"auth", LOG_AUTH},
    {"authpriv", LOG_AUTHPRIV},
    {"cron", LOG_CRON},
    {"daemon", LOG_DAEMON},
    {"kern", LOG_KERN},
    {"lpr", LOG_LPR},
    {"mail", LOG_MAIL},
    {"mark", LOG_MARK}./* INTERNAL */
    {"news", LOG_NEWS},
    {"security", LOG_AUTH}./* DEPRECATED */
    {"syslog", LOG_SYSLOG},
    {"user", LOG_USER},
    {"uucp", LOG_UUCP},
    #if defined(LOG_FTP)
    {"ftp", LOG_FTP},
    #endif
    {"local0", LOG_LOCAL0},
    {"local1", LOG_LOCAL1},
    {"local2", LOG_LOCAL2},
    {"local3", LOG_LOCAL3},
    {"local4", LOG_LOCAL4},
    {"local5", LOG_LOCAL5},
    {"local6", LOG_LOCAL6},
    {"local7", LOG_LOCAL7},
    {NULL, -1},
};
intDebug;/* debug flag */
charLocalHostName[MAXHOSTNAMELEN+1];/* our hostname */
char*LocalDomain; /* our local domain name */
char*emptystring = "";
intInetInuse = 0;/* non-zero if INET sockets are being used */
intfinet = -1;/* Internet datagram socket */
intLogPort;/* port number for INET connections */
intInitialized = 0;/* set when we have initialized ourselves */
intMarkInterval = 20 * 60;/* interval between marks in seconds */
intMarkSeq = 0;/* mark sequence number */
intNoFork = 0;/* don't fork - don't run in daemon mode */
intAcceptRemote = 0;/* receive messages that come via UDP */
char*StripDomains = NULL;/* these domains may be stripped before writing logs */
char*LocalHosts = NULL;/* these hosts are logged with their hostname */
intNoHops = 1;/* Can we bounce syslog messages through an
intermediate host. */

textint errno;

/* Function prototypes. */
int main(int argc, char **argv);
char **crunch_list(char *list);
int usage(void);
void untty(void);
void printhopped(const char *hname, char *msg, int len, int fd);
void printfline(const char *hname, char *msg);
void printsys(char *msg);
void logmsg(int pri, char *msg, const char *from, int flags);
void fprintlog(register struct filed *f, char *from, int flags, char *msg);
void endtty();
void wallmsg(register struct filed *f, struct iovec *iov);
void reapchild();
const char *cvthname(struct sockaddr_in *f);
void domark();
void debug_switch();
void logerror(char *type);
void die(int sig);
#ifndef TESTING
void doexit(int sig);
#endif
void init();
void cfline(char *line, register struct filed *f);
int decode(char *name, struct code *codetab);
#if defined(__GLIBC__)
#define dprintf mydprintf
#endif /* __GLIBC__ */
static void dprintf(char *, ...);
static void allocate_log(void);
void sighup_handler();

#ifdef SYSLOG_UNIXAF
static int create_unix_socket(const char *path);
#endif
#ifdef SYSLOG_INET
static int create_inet_socket();
#endif

int main(argc, argv)
  int argc;
  char **argv;
{
  register int i;
  register char *p;
#ifdef TESTING
  ssize_t msglen;
#endif
#if !defined(__GLIBC__)
  int len, num_fds;
#else /* __GLIBC__ */
#ifdef TESTING
  socklen_t len;
#endif
  int num_fds;
#endif /* __GLIBC__ */
/*
* It took me quite some time to figure out how this is
* supposed to work so I guess I should better write it down.
* unixm is a list of file descriptors from which one can
* read(). This is in contrary to readfds which is a list of
* file descriptors where activity is monitored by select()
* and from which one cannot read(). -Joey
* Changed: unixm is gone, since we now use datagram unix sockets.
* Hence we recv() from unix sockets directly (rather than
* first accept()ing connections on them), so there's no need
* for separate book-keeping. --okir
*/
  fd_set readfds;
#endif /* __GLIBC__ */

#if defined syscall
  inttfd;
#endif
#ifdef SYSLOG_INET
  struct sockaddr_in frominet;
  char *from;
#endif
pid_t ppid = getpid();
#endif
int ch;
struct hostent *hent;

char line[MAXLINE +1];
extern int optind;
extern char *optarg;
int maxfds;

#ifndef TESTING
chdir ("/");
#endif
for (i = 1; i < MAXFUNIX; i++) {
    funixn[i] = "";
    funix[i] = -1;
}

while ((ch = getopt(argc, argv, "a:dhf:l:m:np:rs:v")) != EOF)
switch((char)ch) {
    case 'a':
        if (nfunix < MAXFUNIX)
            funixn[nfunix++] = optarg;
        else
            fprintf(stderr, "Out of descriptors, ignoring \%s\n", optarg);
        break;
    case 'd': /* debug */
        Debug = 1;
        break;
    case 'f': /* configuration file */
        ConfFile = optarg;
        break;
    case 'h':
        NoHops = 0;
        break;
    case 'l':
        if (LocalHosts) {
            fprintf (stderr, "Only one -l argument allowed," \
            "the first one is taken.\n")
            break;
        }
        LocalHosts = crunch_list(optarg);
        break;
    case 'm': /* mark interval */
        MarkInterval = atoi(optarg) * 60;
        break;
    case 'n': /* don't fork */
        NoFork = 1;
        break;
break;
case 'p': /* path to regular log socket */
    funixn[0] = optarg;
break;
case 'r': /* accept remote messages */
    AcceptRemote = 1;
    break;
case 's':
    if (StripDomains) {
        fprintf (stderr, "Only one -s argument allowed," \
                  "the first one is taken.
        ");
        break;
    }
    StripDomains = crunch_list(optarg);
    break;
    
    case 'v':
    printf("syslogd %s.%s\n", VERSION, PATCHLEVEL);
    exit (0);
    
    case '?':
    default:
        usage();
    }
    if ((argc -= optind))
        usage();

#ifndef TESTING
    if ( ! (Debug || NoFork) )
    {
        dprintf("Checking pidfile.\n");
        if (!check_pid(PidFile))
        {
            signal (SIGTERM, doexit);
            if (fork()) {
/*
 * Parent process
 */
            sleep(300);
/*
 * Not reached unless something major went wrong. 5
 * minutes should be a fair amount of time to wait.
 * Please note that this procedure is important since
 * the father must not exit before syslogd isn't
 * initialized or the klogd won't be able to flush its
 * logs. -Joey
 */
            exit(1);
        }
        signal (SIGTERM, SIG_DFL);
num_fds = getdtablesize();
for (i = 0; i < num_fds; i++)
(void) close(i);
unty();
}
else
{
    fputs("syslogd: Already running.
", stderr);
    exit(1);
}
}
else
#endif
default_on = 1;
#else
#endif
setlinebuf(stdout);
#endif
#endif
#endif
test
*/
if ( !Debug )
{
dprintf("Writing pidfile.
");
if (!check_pid(PidFile))
{
    if (!write_pid(PidFile))
    {
        dprintf("Can't write pid.
");
        if (getpid() != ppid)
            kill (ppid, SIGTERM);
        exit(1);
    }
}
else
{
    dprintf("Pidfile (and pid) already exist.
");
    if (getpid() != ppid)
        kill (ppid, SIGTERM);
    exit(1);
}
}
#else

dprintf("Pidfile (and pid) already exist.
");
if (getpid() != ppid)
    kill (ppid, SIGTERM);
exit(1);
}
/* if ( !Debug ) */
#endif

consfile.f_type = F_CONSOLE;
(void) strcpy(consfile.f_un.f_fname, ctty);
(void) gethostname(LocalHostName, sizeof(LocalHostName));
LocalDomain = emptystring;
if ( (p = strchr(LocalHostName, '.')) ) {
  *p++ = '0';
  LocalDomain = p;
} else if ( AcceptRemote )
{
/*
 * It's not clearly defined whether gethostname()
 * should return the simple hostname or the fqdn. A
 * good piece of software should be aware of both and
 * we want to distribute good software. Joey
 *
 * Good software also always checks its return values...
 * If syslogd starts up before DNS is up & /etc/hosts
 * doesn't have LocalHostName listed, gethostbyname will
 * return NULL.
 */
hent = gethostbyname(LocalHostName);
if ( hent )
  snprintf(LocalHostName, sizeof(LocalHostName), "%s", hent->h_name);
if ( (p = strchr(LocalHostName, '.')) )
  {*p++ = '0';
   LocalDomain = p;
}

/*
 * Convert to lower case to recognize the correct domain laterly
 */
for (p = (char *)LocalDomain; *p ; p++)
  if (isupper(*p))
    *p = tolower(*p);

(void) signal(SIGTERM, die);
(void) signal(SIGINT, Debug ? die : SIG_IGN);
(void) signal(SIGQUIT, Debug ? die : SIG_IGN);
(void) signal(SIGCHLD, reapchild);
(void) signal(SIGALRM, domark);
(void) signal(SIGUSR1, Debug ? debug_switch : SIG_IGN);
(void) signal(SIGXFSZ, SIG_IGN);
(void) alarm(TIMERINTVL);

/* Create a partial message table for all file descriptors. */
num_fds = getdtablesize();
dprintf("Allocated parts table for %d file descriptors\n", num_fds);
if ( (parts = (char **) malloc(num_fds * sizeof(char *)) ) == \

#ifndef TESTING
if (getpid() != ppid)
killassign(SIGTERM);
#endif
die(0);

for (i = 0; i < num_fds; ++i)
parts[i] = (char *) 0;
dprintf("Starting.
");
init();
#endif
if (Debug)
{
dprintf("Debugging disabled, SIGUSR1 to turn on debugging.
");
debugging_on = 0;
}
/*
 * Send a signal to the parent to it can terminate.
 */
if (getpid() != ppid)
killassign(SIGTERM);
#endif
/* Main loop begins here. */
for (;;)
int nfds;
ermo = 0;
FD_ZERO(&readfds);
maxfds = 0;
#endif
#endif
/*
 * Add the Unix Domain Sockets to the list of read
 * descriptors.
 */
/*
 * Copy master connections */
for (i = 0; i < nfunix; i++)
if (funix[i] != -1)
FD_SET(funix[i], &readfds);
if (funix[i] > maxfds) maxfds = funix[i];
}
#endif
#endif
/*
 * Add the Internet Domain Socket to the list of read
 * descriptors.
 */
if ( InetInuse && AcceptRemote ) {
    FD_SET(inetm, &readfds);
    if (inetm>maxfds) maxfds=inetm;
    dprintf("Listening on syslog UDP port.\n");
}
#endif
#endif
#ifdef TESTING
FD_SET(fileno(stdin), &readfds);
if (fileno(stdin) > maxfds) maxfds = fileno(stdin);

    dprintf("Listening on stdin.  Press Ctrl-C to interrupt.\n");
#endif

if ( debugging_on ) {
    dprintf("Calling select, active file descriptors (max %d): ", maxfds);
    for (nfds= 0; nfds <= maxfds; ++nfds)
        if ( FD_ISSET(nfds, &readfds) )
            dprintf("%d ", nfds);
    dprintf("\n");
}

    nfds = select(maxfds+1, (fd_set *) &readfds, (fd_set *) NULL,
        (fd_set *) NULL, (struct timeval *) NULL);
    if ( restart )
        restart = 0;
    dprintf("\nReceived SIGHUP, reloading syslogd\n");
    init();
    continue;
}
if (nfds == 0) {
    dprintf("No select activity.\n");
    continue;
}
if (nfds < 0) {
    if (errno != EINTR)
        logerror("select");
    dprintf("Select interrupted.\n");
    continue;
}
if ( debugging_on )
{
    dprintf("unSuccessful select, descriptor count = %d, \
"Activity on: ", nfds);
    for (nfds= 0; nfds <= maxfds; ++nfds)
        if ( FD_ISSET(nfds, &readfds) )
            dprintf("%d ", nfds);
    dprintf("\n");
}

#ifndef TESTING
#ifndef SYSLOG_UNIXAF
for (i = 0; i < nfunix; i++) {
    if ((fd = funix[i]) != -1 & FD_ISSET(fd, &readfds)) {
        memset(line, 0, sizeof(line));
        msglen = recv(fd, line, MAXLINE - 2, 0);
        dprintf("Message from UNIX socket: #%d\n", fd);
        if (msglen > 0)
            printchopped(LocalHostName, line, msglen + 2, fd);
        else if (msglen < 0 & errno != EINTR) {
            dprintf("UNIX socket error: %d = %s.\n", \
            errno, strerror(errno));
            logerror("recvfrom UNIX");
        }
    }
}
#endif
#ifdef SYSLOG_INET
if (InetInuse && AcceptRemote && FD_ISSET(inetm, &readfds)) {
    len = sizeof(frominet);
    memset(line, 0, sizeof(line));
    msglen = recvfrom(finet, line, MAXLINE - 2, 0, \
        (struct sockaddr *) &frominet, &len);
    dprintf("Message from inetd socket: #%d, host: %s\n", \
        inetm, inet_ntoa(frominet.sin_addr));
    if (msglen > 0) {
        from = (char *)cvthname(&frominet);
        /*
        * Here we could check if the host is permitted
        * to send us syslog messages. We just have to
        * catch the result of cvthname, look for a dot
        * and if that doesn't exist, replace the first
        * '0' with '.' and we have the fqdn in lowercase
        * letters so we could match them against whatever.
        * Joey
        */
        printchopped(from, line, \

msglen + 2, finet);
} else if (msglen < 0 && errno != EINTR && errno != EAGAIN) {
    dprintf("INET socket error: %d = %s\n", errno, strerror(errno));
    logerror("recvfrom inet");
    /* should be harmless now that we set
    * BSDCOMPAT on the socket */
    sleep(1);
}
#else
    if ( FD_ISSET(fileno(stdin), &readfds) ) {
        dprintf("Message from stdin.\n");
        memset(line, '0', sizeof(line));
        line[0] = ';
        parts[fileno(stdin)] = (char *) 0;
        i = read(fileno(stdin), line, MAXLINE);
        if (i > 0) {
            printchopped(LocalHostName, line, i+1, fileno(stdin));
        } else if (i < 0) {
            if (errno != EINTR) {
                logerror("stdin");
            }
        }
        FD_CLR(fileno(stdin), &readfds);
    }
#endif
#endif

int usage()
{
    fprintf(stderr, "usage: syslogd [-drvh] [-l hostlist] [-m markinterval] [-n] [-p path]\n" " [-s domainlist] [-f conffile]\n");
    exit(1);
}

#endif SYSLOG_UNIXAF
static int create_unix_socket(const char *path)
{
    struct sockaddr_un sunx;
    int fd;
    char line[MAXLINE +1];
    if (path[0] == '0')
        return -1;

(void) unlink(path);

memset(&sunx, 0, sizeof(sunx));
sunx.sun_family = AF_UNIX;
(void) strncpy(sunx.sun_path, path, sizeof(sunx.sun_path));
fd = socket(AF_UNIX, SOCK_DGRAM, 0);
if (fd < 0 || bind(fd, (struct sockaddr *)&sunx,
    sizeof(sunx.sun_family)+strlen(sunx.sun_path)) < 0 ||
    chmod(path, 0666) < 0) {
    (void) snprintf(line, sizeof(line), "cannot create %s", path);
    logerror(line);
dprintf("cannot create %s (%d).\n", path, errno);
close(fd);
#endif

define SYSV
die(0);
#endif
return -1;
}
return fd;
#endif
#endif

#ifdef SYSLOG_INET
static int create_inet_socket()
{
    int fd, on = 1;
    struct sockaddr_in sin;
    int sockflags;

    fd = socket(AF_INET, SOCK_DGRAM, 0);
    if (fd < 0) {
        logerror("syslog: Unknown protocol, suspending inet service.");
        return fd;
    }

    memset(&sin, 0, sizeof(sin));
sin.sin_family = AF_INET;
sin.sin_port = LogPort;
if (setsockopt(fd, SOL_SOCKET, SO_REUSEADDR, 
    (char *)&on, sizeof(on)) < 0 ) {
    logerror("setsockopt(REUSEADDR), suspending inet");
close(fd);
return -1;
}
/* We must not block on the network socket, in case a packet
* gets lost between select and recv, otherwise the process
* will stall until the timeout, and other processes trying to
* log will also stall.
*/
if ((sockflags = fcntl(fd, F_GETFL)) != -1) {
    sockflags |= O_NONBLOCK;
/*
 * SETFL could fail too, so get it caught by the subsequent
 * error check.
 */
    sockflags = fcntl(fd, F_SETFL, sockflags);
} 
if (sockflags == -1) {
    logerror("fcntl(O_NONBLOCK), suspending inet");
    close(fd);
    return -1;
}
if (bind(fd, (struct sockaddr *) &sin, sizeof(sin)) < 0) {
    logerror("bind, suspending inet");
    close(fd);
    return -1;
}
return fd;
#endif

char **
crunch_list(list)
char *list;
{
    int i, m, n;
    char *p, *q;
    char **result = NULL;

    p = list;

    /* strip off trailing delimiters */
    while (*p && p[strlen(p)-1] == LIST_DELIMITER)
        p[strlen(p)-1] = '\0';

    /* cut off leading delimiters */
    while (p[0] == LIST_DELIMITER)
        p++;

    /* count delimiters to calculate the number of elements */
    for (n = i = 0; p[i]; i++)
        if (p[i] == LIST_DELIMITER) n++;

    if ((result = (char **)malloc(sizeof(char *) * (n + 2))) == NULL) {
        printf("Sorry, can't get enough memory, exiting.\n");
        exit(1);
    }
m = 0;
while ((q = strchr(p, LIST_DELIMITER)) && m < n) {
    result[m] = (char *) malloc((q - p + 1) * sizeof(char));
    if (result[m] == NULL) {
        printf("Sorry, can't get enough memory, exiting.\n");
        exit(1);
    }
    memcpy(result[m], p, q - p);
    result[m][q - p] = '\0';
    p = q; p++;
    m++;
}
if ((result[m] = strdup(p)) == NULL) {
    printf("Sorry, can't get enough memory, exiting.\n");
    exit(1);
}
result[++m] = NULL;

#if 0
m = 0;
while (result[m])
dprintf("#%d: %s\n", m, result[m++]);
#endif
return result;

} /*
 * We now can assume that the first and last
 * characters are different from any delimiters,
 * so we don't have to care about this.
 */

void untty()
#endif SYSV
{
    if ( !Debug ) {
        setsid();
    }
    return;
}
#else
    int i;

    if ( !Debug ) {

Open Source Used In NX-OS N9K 6.1(2) NX-OS 6.1(2)
1586
i = open(_PATH_TTY, O_RDWR);
if (i >= 0) {
(void) ioctl(i, (int) TIOCNOTTY, (char *)0);
(void) close(i);
}

/*
 * Parse the line to make sure that the msg is not a composite of more
 * than one message.
 */

void printchopped(hname, msg, len, fd)
const char *hname;
char *msg;
int len;
int fd;
{
auto int ptlngth;
auto char *start = msg,
*p,
*end,
tmpline[MAXLINE + 1];

dprintf("Message length: %d, File descriptor: %d.\n", len, fd);
tmpline[0] = '\0';
if ( parts[fd] != (char *) 0 )
{
dprintf("Including part from messages.\n");
strcpy(tmpline, parts[fd]);
free(parts[fd]);
parts[fd] = (char *) 0;
if ( (strlen(msg) + strlen(tmpline)) > MAXLINE )
{
logerror("Cannot glue message parts together");
printline(hname, tmpline);
start = msg;
}
else
{
dprintf("Previous: %s\n", tmpline);
dprintf("Next: %s\n", msg);
strcat(tmpline, msg); /* length checked above */
printline(hname, tmpline);
}
if ( (strlen(msg) + 1) == len )
return;
else
start = strchr(msg, '\0') + 1;
{
}
}

if ( msg[len-1] != '\0' )
{
msg[len] = '\0';
for(p= msg+len-1; *p != '\0' && p > msg; )
--p;
if(*p == '\0') p++;
ptlength = strlen(p);
if ( ((parts[fd] = malloc(ptlength + 1)) == (char *) 0 )
logerror("Cannot allocate memory for message part.");
else
{
strcpy(parts[fd], p);
dprintf("Saving partial msg: %s\n", parts[fd]);
memset(p, '\0', ptlength);
}
}

do {
end = strchr(start + 1, '\0');
printline(hname, start);
start = end + 1;
} while ( *start != '\0' );

return;
}

/*
 * Take a raw input line, decode the message, and print the message
 * on the appropriate log files.
 */

void printline(hname, msg)
const char *hname;
char *msg;
{
register char *p, *q;
register unsigned char c;
char line[MAXLINE + 1];
int pri;
/* test for special codes */

pri = DEFUPRI;
p = msg;

if (*p == '<') {
pri = 0;
while (isdigit(*++p)) 
{
    pri = 10 * pri + (*p - '0');
}
if (*p == '>
++p;
}
if (pri &~ (LOG_FACMASK|LOG_PRIMASK))
pri = DEFUPRI;

memset (line, 0, sizeof(line));
q = line;
while ((c = *p++) && q < &line[sizeof(line) - 4]) {
if (c == '\n' || c == 127)
    *q++ = '\';
else if (c < 040) {
    *q++ = '^';
    *q++ = c ^ 0100;
} else
    *q++ = c;
}
*q = '\0';

logmsg(pri, line, hname, SYNC_FILE);
return;
}

/*
* Take a raw input line from /dev/klog, split and format similar to syslog().
*/

void printsys(msg)
char *msg;
{
    register char *p, *q;
    register int c;
    char line[MAXLINE + 1];
    int pri, flags;
    char *lp;
(void) snprintf(line, sizeof(line), "vmunix: ");
lp = line + strlen(line);
for (p = msg; *p != '\0'; ) {
flags = ADDDATE;
pri = DEFSPRI;
if (*p == '<') {
pri = 0;
while (isdigit(*++p))
pri = 10 * pri + (*p - '0');
if (*p == '>')
++p;
} else {
/* kernel printf's come out on console */
flags |= IGN_CONS;
}
if (pri &~ (LOG_FACMASK|LOG_PRIMASK))
pri = DEFSPRI;
q = lp;
while (*p != '\0' && (c = *p++) != '\n' &&
q < &line[MAXLINE])
*q++ = c;
*q = '\0';
logmsg(pri, line, LocalHostName, flags);
}
return;

/*
 * Decode a priority into textual information like auth.emerg.
 */
char *textpri(pri)
int pri;
{
static char res[20];
CODE *c_pri, *c_fac;
for (c_fac = facilitynames; c_fac->c_name && !(c_fac->c_val == LOG_FAC(pri)<<3); c_fac++);
for (c_pri = prioritynames; c_pri->c_name && !(c_pri->c_val == LOG_PRI(pri)); c_pri++)
snprintf (res, sizeof(res), "%s.%s<%d>", c_fac->c_name, c_pri->c_name, pri);
return res;
}
time_t now;
/*
* Log a message to the appropriate log files, users, etc. based on
* the priority.
*/

void logmsg(pri, msg, from, flags)
int pri;
char *msg;
const char *from;
int flags;
{
    register struct filed *f;
    int fac, prilev, lognum;
    int msglen;
    char *timestamp;
    #ifdef __gnu_linux__
    sigset_t mask;
    #else
    #ifndef SYSV
    sigset_t omask;
    #endif
    #endif
    dprintf("logmsg: %s, flags %x, from %s, msg %s\n", textpri(pri), flags, from, msg);
    #ifdef __gnu_linux__
    sigemptyset(&mask);
    sigaddset(&mask, SIGHUP);
    sigaddset(&mask, SIGALRM);
    sigprocmask(SIG_BLOCK, &mask, NULL);
    #else
    #ifndef SYSV
    omask = sigblock(sigmask(SIGHUP)|sigmask(SIGALRM));
    #endif
    #endif
    
    /*
    * Check to see if msg looks non-standard.
    *
    * A message looks like
    * Nov 17 11:42:33 CRON[01234567890123456
    *    ^  ^  ^  ^  ^
    * Remote messages are not accompanied by a timestamp.
    * Local messages are accompanied by a timestamp (program's timezone)
    */
    msglen = strlen(msg);
  msg += 16;
  msglen -= 16;
}
(void) time(&now);
timestamp = ctime(&now) + 4;

/* extract facility and priority level */
fac = LOG_FAC(pri);
prilev = LOG_PRI(pri);

/* log the message to the particular outputs */
if (!Initialized) {
  f = &consfile;
  f->f_file = open(c tty, O_WRONLY|O_NOCTTY);
  if (f->f_file >= 0) {
    un tty();
    fprintlog(f, (char *)from, flags, msg);
    (void) close(f->f_file);
    f->f_file = -1;
  }
#ifdef __gnu_linux__
  sigprocmask(SIG_UNBLOCK, &mask, NULL);
#else
  #ifndef SYSV
  (void) sigsetmask(omask);
  #endif
#endif
  return;
#endif
#ifdef SYSV
  for (lognum = 0; lognum <= nlogs; lognum++) {
    f = &Files[lognum];
    #else
    for (f = Files; f; f = f->f_next) {
      #endif
      /* skip messages that are incorrect priority */
      if ( (f->f_pmask[fac] == TABLE_NOPRI) ||
          ((f->f_pmask[fac] & (1<<prilev)) == 0) )
        continue;
      if (f->f_type == F_CONSOLE && (flags & IGN_CONS))
        continue;

      /* don't output marks to recently written files */
if ((flags & MARK) && (now - f->f_time) < MarkInterval / 2) continue;

/*
 * suppress duplicate lines to this file
 */
if ((flags & MARK) == 0 && msglen == f->f_prevlen &&
    !strcmp(msg, f->f_prevline) &&
    !strcmp(from, f->f_prevhost)) {
    (void) strncpy(f->f_lasttime, timestamp, 15);
    f->f_prevcount++;
    dprintf("msg repeated %d times, %ld sec of %d
",
        f->f_prevcount, now - f->f_time,
        repeatinterval[f->f_repeatcount]);
    /*
     * If domark would have logged this by now,
     * flush it now (so we don't hold isolated messages),
     * but back off so we'll flush less often
     * in the future.
     */
    if (now > REPEATTIME(f)) {
        fprintlog(f, (char *)from, flags, (char *)NULL);
        BACKOFF(f);
    } else {
        /* new line, save it */
        if (f->f_prevcount)
            fprintlog(f, (char *)from, 0, (char *)NULL);
        f->f_prevpri = pri;
        f->f_prevcount = 0;
        (void) strncpy(f->f_lasttime, timestamp, 15);
        (void) strncpy(f->f_prevhost, from,
                        sizeof(f->f_prevhost));
        if (msglen < MAXSVLINE) {
            f->f_prevlen = msglen;
            (void) strcpy(f->f_prevline, msg);
            fprintlog(f, (char *)from, flags, (char *)NULL);
        } else {
            f->f_prevline[0] = 0;
            f->f_prevlen = 0;
            fprintlog(f, (char *)from, flags, msg);
        }
    }
#endif
}
(void) sigsetmask(omask);
#endif
#endif
}
#if FALSE
} /* balance parentheses for emacs */
#endif

void fprintlog(f, from, flags, msg)
register struct filed *f;
char *from;
int flags;
char *msg;
{
struct iovec iov[6];
register struct iovec *v = iov;
char repbuf[80];
#ifdef SYSLOG_INET
register int l;
char line[MAXLINE + 1];
time_t fwd_suspend;
struct hostent *hp;
#endif
dprintf("Called fprintlog, ");

v->iov_base = f->f_lasttime;
v->iov_len = 15;
v++;
v->iov_base = ";
";
v->iov_len = 1;
v++;
v->iov_base = f->f_prevhost;
v->iov_len = strlen(v->iov_base);
v++;
v->iov_base = ";
";
v->iov_len = 1;
v++;
if (msg) {
v->iov_base = msg;
v->iov_len = strlen(msg);
} else if (f->f_prevcount > 1) {
(void) snprintf(repbuf, sizeof(repbuf), "last message repeated %d times",
 f->f_prevcount);
v->iov_base = repbuf;
v->iov_len = strlen(repbuf);
} else {
v->iov_base = f->f_prevline;
v->iov_len = f->f_prevlen;
}
v++;

dprintf("logging to \%s", TypeNames[f->f_type]);

switch (f->f_type) {
  case F_UNUSED:
    f->f_time = now;
    dprintf("\n");
    break;

  #ifdef SYSLOG_INET
    case F_FORW_SUSP:
      fwd_suspend = time((time_t *) 0) - f->f_time;
      if ( fwd_suspend >= INET_SUSPEND_TIME ) {
        dprintf("\nForwarding suspension over, " \ "retrying FORW ");
        f->f_type = F_FORW;
        goto f_forw;
      } else {
        dprintf(" \%d\n", f->f_un.f_forw.f_hname);
        dprintf("Forwarding suspension not over, time \%d.\n", INET_SUSPEND_TIME - fwd_suspend);
      }
  break;

  /*
   * The trick is to wait some time, then retry to get the
   * address. If that fails retry x times and then give up.
   *
   * You'll run into this problem mostly if the name server you
   * need for resolving the address is on the same machine, but
   * is started after syslogd.
   */
  case F_FORW_UNKN:
    dprintf(" \%s\n", f->f_un.f_forw.f_hname);
    fwd_suspend = time((time_t *) 0) - f->f_time;
    if ( fwd_suspend >= INET_SUSPEND_TIME ) {
      dprintf("Forwarding suspension to unknown over, retrying\n");
      if ( (hp = gethostbyname(f->f_un.f_forw.f_hname)) == NULL ) {
        dprintf("Failure: \%s\n", sys_h_errlist[h_errno]);
        dprintf("Retries: \%d\n", f->f_prevcount);
        if ( --f->f_prevcount < 0 ) {
          dprintf("Giving up.\n");
          f->f_type = F_UNUSED;
        }
      } else {
        dprintf("\nGot h_errno = \%d\n", h_errno);
        f->f_forw = (struct f_forw *) hp;
      }
    } else {
      dprintf("\nForwarding suspension still pending, time left: \%d.\n", INET_SUSPEND_TIME - fwd_suspend);
    }
  break;

/*
 * The trick is to wait some time, then retry to get the
 * address. If that fails retry x times and then give up.
 * You'll run into this problem mostly if the name server you
 * need for resolving the address is on the same machine, but
 * is started after syslogd.
 */
}
else
   dprintf("Left retries: %d\n", f->f_prevcount);
}
else {
   dprintf("%s found, resuming\n", f->f_un.f_forw.f_hname);
   memcpy((char *) &f->f_un.f_forw.f_addr.sin_addr, hp->h_addr, hp->h_length);
   f->f_prevcount = 0;
   f->f_type = F_FORW;
   goto f_forw;
}
}
else
   dprintf("Forwarding suspension not over, time " \n"left: %d\n", INET_SUSPEND_TIME - fwd_suspend);
break;

case F_FORW:
/*
 * Don't send any message to a remote host if it
 * already comes from one. (we don't care 'bout who
 * sent the message, we don't send it anyway) -Joey
 */
 f_forw:
   dprintf(" %s\n", f->f_un.f_forw.f_hname);
   if ( strcmp(from, LocalHostName) && NoHops )
      dprintf("Not sending message to remote\n");
   else {
      f->f_time = now;
      (void) snprintf(line, sizeof(line), "<%d>%s", f->f_prevpri, \n(char *) iov[4].iov_base);
      l = strlen(line);
      if (l > MAXLINE)
         l = MAXLINE;
      if (sendto(finet, line, l, 0, \n         (struct sockaddr *) &f->f_un.f_forw.f_addr,
         sizeof(f->f_un.f_forw.f_addr)) != l) {
         int e = errno;
         dprintf("INET sendto error: %d = %s\n", e, strerror(e));
         f->f_type = F_FORW_SUSP;
         errno = e;
         logerror("sendto");
      }
   }
break;
#endif
case F_CONSOLE:
f->f_time = now;
#ifdef UNIXPC
if (1) {
#else
if (flags & IGN_CONS) {
#endif
dprintf(" (ignored).n");
break;
}
/* FALLTHROUGH */

case F_TTY:
case F_FILE:
case F_PIPE:
f->f_time = now;
dprintf(" %s", f->f_un.f_fname);
if (f->f_type == F_TTY || f->f_type == F_CONSOLE) {
    v->iov_base = "\n";
    v->iov_len = 2;
} else {
    v->iov_base = "n";
    v->iov_len = 1;
}
again:
/* f->f_file == -1 is an indicator that we couldn't
   open the file at startup. */
if (f->f_file == -1)
    break;

if (writev(f->f_file, iov, 6) < 0) {
    int e = errno;

    /* If a named pipe is full, just ignore it for now */
    if (f->f_type == F_PIPE && e == EAGAIN)
        break;

    /* If the filesystem is filled up, just ignore
       it for now and continue writing when
       possible */
    if (f->f_type == F_FILE && e == ENOSPC)
        break;

    (void) close(f->f_file);
/*
 * Check for EBADF on TTY's due to vhangup() XXX
 * Linux uses EIO instead (mrn 12 May 96)
*/
if ((f->f_type == F_TTY || f->f_type == F_CONSOLE)
#if defined linux
&& e == EIO) {
#else
&& e == EBADF) {
#endif
f->f_file = open(f->f_un.f_fname, O_WRONLY|O_APPEND|O_NOCTTY);
if (f->f_file < 0) {
    f->f_type = F_UNUSED;
    logerror(f->f_un.f_fname);
} else {
    untty();
    goto again;
}
} else {
    f->f_type = F_UNUSED;
    errno = e;
    logerror(f->f_un.f_fname);
}
} else if (f->f_type == F_FILE && (f->f_flags & SYNC_FILE))
(void) fsync(f->f_file);
break;

case F_USERS:
    case F_WALL:
    f->f_time = now;
    dprintf("\n");
    v->iov_base = "\n";
    v->iov_len = 2;
    wallmsg(f, iov);
    break;
/* switch */
if (f->f_type != F_FORW_UNKN) {
    f->f_prevcount = 0;
    return;
}
#endif
} /* balance parentheses for emacs */
#endif
}

jmp_buf ttybuf;

void endtty()
{
    longjmp(ttybuf, 1);
}

/*
WALLMSG -- Write a message to the world at large

*Write the specified message to either the entire
*world, or a list of approved users.
*/

void wallmsg(f, iov)
register struct filed *f;
struct iovec *iov;
{
    char p[sizeof (_PATH_DEV) + UNAMESZ];
    register int i;
    int ttyf, len;
    static int reenter = 0;
    struct utmp ut;
    struct utmp *uptr;
    char greetings[200];

    (void) &len;

    if (reenter++)
        return;

    /* open the user login file */
    setutent();

    /* Might as well fork instead of using nonblocking I/O
    * and doing notty().
    */
    if (fork() == 0) {
        (void) signal(SIGTERM, SIG_DFL);
        (void) alarm(0);
        #ifndef SYSV
        (void) signal(SIGTTOU, SIG_IGN);
        (void) sigsetmask(0);
        #endif
        (void) snprintf(greetings, sizeof(greetings),
            "\r\n\7Message from syslogd@%s at %.24s ...
",
            (char *) iov[2].iov_base, ctime(&now));
        len = strlen(greetings);
        /* scan the user login file */
        while ((uptr = getutent())) {
            memcpy(&ut, uptr, sizeof(ut));
            /* is this slot used? */
            if (ut.ut_name[0] == '\0')

            /* scan the user login file */
            while ((uptr = getutent())) {
                memcpy(&ut, uptr, sizeof(ut));
                /* is this slot used? */
                if (ut.ut_name[0] == '\0')
continue;
if (ut.ut_type != USER_PROCESS)
    continue;
if (!(strcmp (ut.ut_name, "LOGIN"))) /* paranoia */
    continue;

/* should we send the message to this user? */
if (f->f_type == F_USERS) {
    for (i = 0; i < MAXUNAMES; i++) {
        if (!f->f_un.f_uname[i][0]) {
            i = MAXUNAMES;
            break;
        }
        if (strncmp(f->f_un.f_uname[i], ut.ut_name, UNAMESZ) == 0)
            break;
    }
    if (i >= MAXUNAMES)
        continue;
}

/* compute the device name */
strcpy(p, _PATH_DEV);
strncat(p, ut.ut_line, UNAMESZ):

if (f->f_type == F_WALL) {
    iov[0].iov_base = greetings;
    iov[0].iov_len = len;
    iov[1].iov_len = 0;
}
if (setjmp(ttybuf) == 0) {
    (void) signal(SIGALRM, endtty);
    (void) alarm(15);
    /* open the terminal */
ttyf = open(p, O_WRONLY|O_NOCTTY);
    if (ttyf >= 0) {
        struct stat statb;
        if (fstat(ttyf, &statb) == 0 &&
            (statb.st_mode & S_IWRITE))
            (void) writev(ttyf, iov, 6);
        close(ttyf);
        ttyf = -1;
    }
}
(void) alarm(0);
exit(0);
void reapchild()
{
    int saved_errno = errno;
#if defined(SYSV) && !defined(linux)
    (void) signal(SIGCHLD, reapchild); /* reset signal handler -ASP */
    wait((int *)0);
#else
    union wait status;
    while (wait3(&status, WNOHANG, (struct rusage *) NULL) > 0)
    {#endif
    #ifdef linux
    (void) signal(SIGCHLD, reapchild); /* reset signal handler -ASP */
    #endif
    errno = saved_errno;
}

/*
 * Return a printable representation of a host address.
 */
const char *cvthname(f)
struct sockaddr_in *f;
{
    struct hostent *hp;
    register char *p;
    int count;
    
    if (f->sin_family != AF_INET) {
        dprintf("Malformed from address.\n");
        return ("???");
    }
    hp = gethostbyaddr((char *) &f->sin_addr, sizeof(struct in_addr), 
                      f->sin_family);
    if (hp == 0) {
        dprintf("Host name for your address (%s) unknown.\n",
                inet_ntoa(f->sin_addr));
        return (inet_ntoa(f->sin_addr));
    }
    /*
     * Convert to lower case, just like LocalDomain above
     */

for (p = (char *)hp->h_name; *p ; p++)
if (isupper(*p))
    *p = tolower(*p);

/*
 * Notice that the string still contains the fqdn, but your
 * hostname and domain are separated by a \0.
 */
if ((p = strchr(hp->h_name, '.'))) {
    if (strcmp(p + 1, LocalDomain) == 0) {
        *p = '\0';
        return (hp->h_name);
    } else {
        if (StripDomains) {
            count=0;
            while (StripDomains[count]) {
                if (strcmp(p + 1, StripDomains[count]) == 0) {
                    *p = '\0';
                    return (hp->h_name);
                } count++;
            }
        }
    }
} else if (LocalHosts) {
    count=0;
    while (LocalHosts[count]) {
        if (!strcmp(hp->h_name, LocalHosts[count])) {
            *p = '\0';
            return (hp->h_name);
        } count++;
    }
}

return (hp->h_name);
}

void domark()
{
    register struct filed *f;
    #ifdef SYSV
    int lognum;
    #ifdef SYSV
    int lognum;
    #endif

    if (MarkInterval > 0) {
        now = time(0);

MarkSeq += TIMERINTVL;
if (MarkSeq >= MarkInterval) {
    logmsg(LOG_MARK|LOG_INFO, "-- MARK --", LocalHostName, ADDDATE|MARK);
    MarkSeq = 0;
}

#ifdef SYSV
for (lognum = 0; lognum <= nlogs; lognum++) {
    f = &Files[lognum];
#else
for (f = Files; f; f = f->f_next) {
#elseif
if (f->f_prevcount && now >= REPEATTIME(f)) {
    dprintf("flush %s: repeated %d times, %d sec\n",
        TypeNames[f->f_type], f->f_prevcount,
        repeatinterval[f->f_repeatcount]);
    fprintflog(f, LocalHostName, 0, (char *)NULL);
    BACKOFF(f);
}
}

(void) signal(SIGALRM, domark);
(void) alarm(TIMERINTVL);
}

void debug_switch()
{
    dprintf("Switching debugging_on to %s\n", (debugging_on == 0) ? "true" : "false");
    debugging_on = (debugging_on == 0) ? 1 : 0;
    signal(SIGUSR1, debug_switch);
}

/*
 * Print syslogd errors some place.
 */
void logerror(type)
    char *type;
{
    char buf[100];

dprintf("Called logerr, msg: %s\n", type);

    if (errno == 0)
        (void) snprintf(buf, sizeof(buf), "syslogd: %s", type);
    else
        (void) snprintf(buf, sizeof(buf), "syslogd: %s: %s", type, strerror(errno));
errno = 0;
logmsg(LOG_SYSLOG|LOG_ERR, buf, LocalHostName, ADDDATE);
return;
}

void die(sig)

int sig;

{
    register struct filed *f;
    char buf[100];
    int lognum;
    int i;
    int was_initialized = Initialized;

    Initialized = 0;/* Don't log SIGCHLDs in case we receive one during exiting */

    for (lognum = 0; lognum <= nlogs; lognum++) {
        f = &Files[lognum];
        /* flush any pending output */
        if (f->f_prevcount)
            fprintflog(f, LocalHostName, 0, (char *)NULL);
    }
    Initialized = was_initialized;

    if (sig) {
        dprintf("syslogd: exiting on signal %d\n", sig);
        (void) snprintf(buf, sizeof(buf), "exiting on signal %d", sig);
        errno = 0;
        logmsg(LOG_SYSLOG|LOG_INFO, buf, LocalHostName, ADDDATE);
    }

    /* Close the UNIX sockets. */
    for (i = 0; i < nfunix; i++)
        if (funix[i] != -1)
            close(funix[i]);
    /* Close the inet socket. */
    if (InetInuse) close(inetm);

    /* Clean-up files. */
    for (i = 0; i < nfunix; i++)
        if (funixn[i] && funix[i] != -1)
            (void) unlink(funixn[i]);
#ifndef TESTING
    (void) remove_pid(PidFile);
#endif
exit(0); 
}

/*
 * Signal handler to terminate the parent process.
 */
#endif

void doexit(sig)
  int sig;
  {
    exit (0);
  }
#endif

/*
 * INIT -- Initialize syslogd from configuration table
 */

void init()
  {
    register int i, lognum;
    register FILE *cf;
    register struct filed *f;
    #ifdef TESTING
    #ifndef SYSV
    register struct filed **nextp = (struct filed **) 0;
    #endif
    #endif
    register char *p;
    register unsigned int Forwarding = 0;
    #ifdef CONT_LINE
    char cbuf[BUFSIZ];
    char *cline;
    #else
    char cline[BUFSIZ];
    #endif
    struct servent *sp;
    sp = getservbyname("syslog", "udp");
    if (sp == NULL) {
      if (errno == ENOENT) {
        errno = 0;
        logerror("The file /etc/services does not seem exist.");
      }
      errno = 0;
      logerror("network logging disabled (syslog/udp service unknown).");
      logerror("see syslogd(8) for details of whether and how to enable it.");
      LogPort = 0;
    }
else
LogPort = sp->s_port;

/*
 * Close all open log files and free log descriptor array.
 */
dprintf("Called init.\n");
Initialized = 0;
if ( nlogs > -1 )
{
dprintf("Initializing log structures.\n");

for (lognum = 0; lognum <= nlogs; lognum++)
{
f = &Files[lognum];

/* flush any pending output */
if (f->f_prevcount)
fprintlog(f, LocalHostName, 0, (char *)NULL);

switch (f->f_type) {
case F_FILE:
case F_PIPE:
case F_TTY:
case F_CONSOLE:
(void) close(f->f_file);
break;
}
}

/*
 * This is needed especially when HUPing syslogd as the
 * structure would grow infinitively. -Joey
 */
nlogs = -1;
free((void *) Files);
Files = (struct field *) 0;
}

#ifdef SYSV
lognum = 0;
#else
f = NULL;
#endif
/* open the configuration file */
if ((cf = fopen(ConfFile, "r")) == NULL) {
dprintf("cannot open %s.\n", ConfFile);
#ifdef SYSV
allocate_log();
f = &Files[lognum++];
#endif TESTING
cfline("*.err" _PATH_CONSOLE, f);
#else
snprintf(cbuf,sizeof(cbuf), "*.\t\s", ttyname(0));
cfline(cbuf, f);
#endif
*nextp = (struct filed *)__malloc(1, sizeof(*f));
cfline("*.ERR" _PATH_CONSOLE, *nextp);
(*nextp)->f_next = (struct filed *)__malloc(1, sizeof(*f))/ ASP */
cfline("*.PANIC", (*nextp)->f_next);
#endif
Initialized = 1;
return;
}
/*
 * Foreach line in the conf table, open that file.
 */
#if CONT_LINE
cline = cbuf;
while (fgets(cline, sizeof(cbuf) - (cline - cbuf), cf) != NULL) {
#else
while (fgets(cline, sizeof(cline), cf) != NULL) {
#endif
/*
 * check for end-of-section, comments, strip off trailing
 * spaces and newline character.
 */
for (p = cline; isspace(*p); ++p);
if (*p == '"' || *p == '#')
continue;
#if CONT_LINE
memmove(cline, p, strlen(p)+1);
#endif
for (p = strchr(cline, '\'); isspace(*--p);)

if (*p == '\') {
if ((p - cbuf) > BUFSIZ - 30) {
/* Oops the buffer is full - what now? */
cline = cbuf;
#else {
*p = 0;
cline = p;
continue;
}
} 
} else 
cline = cbuf; 
#endif 
*++p = '\0'; 
#endif 
cline = cbuf; 
} 

/* close the configuration file */ 
(void) fclose(cf); 
#endif 

#else 

if (f->f_type == F_FORW || f->f_type == F_FORW_SUSP || f->f_type == F_FORW_UNKN) {
 Forwarding++; 
}
#endif 

/* close the configuration file */ 
(void) fclose(cf); 
#endif 

#else 

if (f->f_type == F_FORW || f->f_type == F_FORW_SUSP || f->f_type == F_FORW_UNKN) {
 Forwarding++; 
}
#endif
if (finet >= 0)
    close(finet);
finet = -1;
InetInuse = 0;
}
inetm = finet;
#endif

Initialized = 1;

if ( Debug ) {
    #ifdef SYSV
    for (lognum = 0; lognum <= nlogs; lognum++) {
        f = &Files[lognum];
        if (f->f_type != F_UNUSED) {
            printf("%2d: ", lognum);
        } else
            for (f = Files; f; f = f->f_next) {
                if (f->f_type != F_UNUSED) {
                    #endif
                    for (i = 0; i <= LOG_NFACILITIES; i++)
                        if (f->f_pmask[i] == TABLE_NOPRI)
                            printf(" X ");
                    else
                        printf("%2X ", f->f_pmask[i]);
                        printf("", TypeNames[f->f_type]);
                    switch (f->f_type) {
                        case F_FILE:
                        case F_PIPE:
                        case F_TTY:
                        case F_CONSOLE:
                            printf("%s", f->f_un.f.fname);
                            if (f->f_file == -1)
                                printf(" (unused)");
                            break;
                        case F_FORW:
                        case F_FORW_SUSP:
                        case F_FORW_UNKN:
                            printf("%s", f->f_un.f_forw.f_hname);
                            break;
                        case F_USERS:
                            for (i = 0; i < MAXUNAMES && *f->f_un.f_uname[i]; i++)
                                printf("%s", f->f_un.f_uname[i]);
                            break;
                        }
                    printf("\n");
    } for (lognum = 0; lognum <= nlogs; lognum++) {
if ( AcceptRemote )
#endif DEBRELEASE
logmsg(LOG_SYSLOG, LOG_INFO, "syslogd " VERSION "." PATCHLEVEL "#" DEBRELEASE ": restart (remote reception)." , LocalHostName, ADDDATE);
#else
logmsg(LOG_SYSLOG, LOG_INFO, "syslogd " VERSION "." PATCHLEVEL ": restart (remote reception)." , LocalHostName, ADDDATE);
#endif
#else
logmsg(LOG_SYSLOG, LOG_INFO, "syslogd " VERSION "." PATCHLEVEL ": restart." , LocalHostName, ADDDATE);
#endif
(void) signal(SIGHUP, sighup_handler);
dprintf("syslogd: restarted.
");
#endif
/*
 * Crack a configuration file line
 */

void cfl ine(line, f)
char *line;
register struct filed *f;
{
    register char *p;
    register char *q;
    register int i, i2;
    char *bp;
    int pri;
    int singlpri = 0;
    int ignorepri = 0;
    int syncfile;
#ifndef SYSLOG_INET
    struct hostent *hp;
#endif

char buf[MAXLINE];
char xbuf[200];

dprintf("cfline(%s)n", line);

errno = 0; /* keep strerror() stuff out of logerror messages */

/* clear out file entry */
#ifndef SYSV
memset((char *) f, 0, sizeof(*f));
#endif
for (i = 0; i <= LOG_NFACILITIES; i++) {
f->f_pmask[i] = TABLE_NOPRI;
f->f_flags = 0;
}

/* scan through the list of selectors */
for (p = line; *p && *p != ' ' && *p != ','; ) {

/* find the end of this facility name list */
for (q = p; *q && *q != ' ' && *q++ != '.'; ) continue;

/* collect priority name */
for (bp = buf; *q && !strchr(" ,;", *q); ) {
*bp++ = *q++;
*bp = '\0';
}

/* skip cruft */
while (strchr(" ,;", *q)) q++;

/* decode priority name */
if ( *buf == '!' ) {
ignorepri = 1;
for (bp=buf; *(bp+1); bp++)
*bp = *(bp+1);
*bp = '\0';
} else {
ignorepri = 0;
}
if ( *buf == '=' ) {
singlpri = 1;
pri = decode(&buf[1], PriNames);
} else {
singlpri = 0;
pri = decode(buf, PriNames);
}

if (pri < 0) {
(void) snprintf(xbuf, sizeof(xbuf), "unknown priority name \"%s\"", buf);
logerror(xbuf);
return;
}

/* scan facilities */
while (*p && !strchr("\t .;", *p)) {
for (bp = buf; *p && !strchr("\t .;", *p); )
  *bp++ = *p++;
  *bp = '\0';
if (*buf == '*') {
  for (i = 0; i <= LOG_NFACILITIES; i++) {
    if (pri == INTERNAL_NOPRI) {
      if (ignorepri)
        f->f_pmask[i] = TABLE_ALLPRI;
      else
        f->f_pmask[i] = TABLE_NOPRI;
    } else if (singlpri) {
      if (ignorepri)
        f->f_pmask[i] &= !(1<<pri);
      else
        f->f_pmask[i] |= (1<<pri);
    } else {
      if (pri == TABLE_ALLPRI) {
        if (ignorepri)
          f->f_pmask[i] = TABLE_NOPRI;
        else
          f->f_pmask[i] = TABLE_ALLPRI;
      } else {
        if (ignorepri)
          for (i2= 0; i2 <= pri; ++i2)
            f->f_pmask[i] &= ~(1<<i2);
        else
          for (i2= 0; i2 <= pri; ++i2)
            f->f_pmask[i] |= (1<<i2);
      }
    }
  }

  if (pri == TABLE_ALLPRI) {
    if (ignorepri)
      f->f_pmask[i] = TABLE_NOPRI;
    else
      f->f_pmask[i] = TABLE_ALLPRI;
  } else {
    if (ignorepri)
      for (i2= 0; i2 <= pri; ++i2)
        f->f_pmask[i] &= ~(1<i2);
    else
      for (i2= 0; i2 <= pri; ++i2)
        f->f_pmask[i] |= (1<i2);
  }
}
}
} else {
  i = decode(buf, FacNames);
  if (i < 0) {

    (void) snprintf(xbuf, sizeof(xbuf), "unknown facility name \"%s\"", buf);
    logerror(xbuf);
    return;
  }

  if ( pri == INTERNAL_NOPRI ) {
    if ( ignorepri )
      f->f_pmask[i >> 3] = TABLE_ALLPRI;
    else
      f->f_pmask[i >> 3] = TABLE_NOPRI;
  } else if ( singlpri ) {
    if ( ignorepri )
      f->f_pmask[i >> 3] &= ~(1<<pri);
    else
      f->f_pmask[i >> 3] |= (1<<pri);
  } else {
    if ( pri == TABLE_ALLPRI ) {
      if ( ignorepri )
        f->f_pmask[i >> 3] = TABLE_NOPRI;
      else
        f->f_pmask[i >> 3] = TABLE_ALLPRI;
    } else {
      if ( ignorepri )
        for (i2= 0; i2 <= pri; ++i2)
          f->f_pmask[i >> 3] &= ~(1<<i2);
      else
        for (i2= 0; i2 <= pri; ++i2)
          f->f_pmask[i >> 3] |= (1<<i2);
    } }]

  while (*p == ',' || *p == ' ')
    p++;

  p = q;
}

/* skip to action part */
while (*p == 't' || *p == ' ')
  p++;

if (*p == '.')
  {
syncfile = 0;
p++; } else
syncfile = 1;

dprintf("leading char in action: %c\n", *p);
switch (*p)
{
case '@':
  #ifdef SYSLOG_INET
  if (!LogPort) {
    f->f_type = F_UNUSED;
    logerror("Forward rule without networking enabled");
    break;
  }
  (void) strcpy(f->f_un.f_forw.f_hname, ++p);
  dprintf("forwarding host: %s\n", p);
  /*ASP*/
  if ( (hp = gethostbyname(p)) == NULL ) {
    f->f_type = F_FORW_UNKN;
    f->f_prevcount = INET_RETRY_MAX;
    f->f_time = time ( (time_t *)0 );
  } else {
    f->f_type = F_FORW;
  }

  memset((char *) &f->f_un.f_forw.f_addr, 0,
         sizeof(f->f_un.f_forw.f_addr));
  f->f_un.f_forw.f_addr.sin_family = AF_INET;
  f->f_un.f_forw.f_addr.sin_port = LogPort;
  if ( f->f_type == F_FORW )
    memcpy((char *) &f->f_un.f_forw.f_addr.sin_addr, hp->h_addr, hp->h_length);
  /*
   * Otherwise the host might be unknown due to an 
   * inaccessible nameserver (perhaps on the same 
   * host). We try to get the ip number later, like 
   * FORW_SUSP. 
   */
  #endif
  break;
}

  (void) strcpy(f->f_un.f_fname, p);
dprintf("filename: %s\n", p);
  /*ASP*/
  if (syncfile)
    f->f_flags |= SYNC_FILE;
  if ( *p == '|' ) {
f->f_file = open(++p, O_RDWR|O_NONBLOCK|O_NOCTTY);
f->f_type = F_PIPE;
} else {
  f->f_file = open(p, O_WRONLY|O_APPEND|O_CREAT|O_NONBLOCK|O_NOCTTY, 0644);
f->f_type = F_FILE;
}

  if ( f->f_file < 0 ){
    f->f_file = -1;
    dprintf("Error opening log file: %s\n", p);
    logerror(p);
    break;
  }
  if (isatty(f->f_file)) {
    f->f_type = F_TTY;
    untty();
  }
  if (strcmp(p, ctty) == 0)
    f->f_type = F_CONSOLE;
  break;

  case '*':
    dprintf ("write-all\n");
    f->f_type = F_WALL;
    break;

  default:
    dprintf ("users: %s\n", p);/* ASP */
    for (i = 0; i < MAXUNAMES && *p; i++) {
      for (q = p; *q && *q != ','; )
        q++;
      (void) strncpy(f->f_un.f_uname[i], p, UNAMESZ);
      if ((q - p) > UNAMESZ)
        f->f_un.f_uname[i][UNAMESZ] = '\0';
      else
        f->f_un.f_uname[i][q - p] = '\0';
    while (*q == ',' || *q == ' ')
      q++;
    p = q;
  }
  f->f_type = F_USERS;
  break;
}
return;
/ *  Decode a symbolic name to a numeric value */

int decode(name, codetab)
char *name;
struct code *codetab;
{
    register struct code *c;
    register char *p;
    char buf[80];

dprintf ("symbolic name: %s", name);
if (isdigit(*name))
{
dprintf ("\n");
return (atoi(name));
}
(void) strncpy(buf, name, 79);
for (p = buf; *p; p++)
    if (isupper(*p))
        *p = tolower(*p);
for (c = codetab; c->c_name; c++)
    if (!strcmp(buf, c->c_name))
    {
dprintf (" ==> %d\n", c->c_val);
return (c->c_val);
}
return (-1);
}

static void dprintf(char *fmt, ...)
{
va_list ap;

if (!((Debug && debugging_on) ))
return;

va_start(ap, fmt);
 vfprintf(stdout, fmt, ap);
va_end(ap);

fflush(stdout);
return;
}
/* 
* The following function is responsible for allocating/reallocating the 
* array which holds the structures which define the logging outputs. 
*/
static void allocate_log()
{
    dprintf("Called allocate_log, nlogs = \%d\n", nlogs);

    /*
    * Decide whether the array needs to be initialized or needs to 
    * grow.
    */
    if ( nlogs == -1 )
    {
        Files = (struct filed *) malloc(sizeof(struct filed));
        if ( Files == (void *) 0 )
        {
            dprintf("Cannot initialize log structure.");
            logerror("Cannot initialize log structure.");
            return;
        }
    } else
    {
        /* Re-allocate the array. */
        Files = realloc(Files, (nlogs+2) * sizeof(struct filed));
        if ( Files == (struct filed *) 0 )
        {
            dprintf("Cannot grow log structure.");
            logerror("Cannot grow log structure.");
            return;
        }
    }

    /*
    * Initialize the array element, bump the number of elements in the 
    * the array and return.
    */
    ++nlogs;
    memset(&Files[nlogs], '\0', sizeof(struct filed));
    return;
}

/*
* The following function is responsible for handling a SIGHUP signal. Since
* we are now doing mallocs/free as part of init we had better not being
* doing this during a signal handler. Instead this function simply sets
* a flag variable which will tell the main loop to go through a restart.
*/

```c
void sighup_handler()
{
    restart = 1;
    signal(SIGHUP, sighup_handler);
    return;
}
```

/*
* Local variables:
*  c-indent-level: 8
*  c-basic-offset: 8
*  tab-width: 8
*  End:
*/

1.135 sysvinit 2.88dsf :r11
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1.140 time 1.7 :r2

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1.145 udev 182.0

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1.149 v86d 0.1.10 :r1

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v86d -- A x86 Emulation Daemon
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1. Purpose
----------

v86d provides a backend for kernel drivers that need to execute x86 BIOS code. The code is executed in a controlled environment and the results are passed back to the kernel via the netlink interface.

2. Suported architectures
--------------------------

This version of v86d supports the following architectures:
x86, x86-64 (amd64).
3. Configuration
-------------

3.1. The C library
------------------
v86d can be compiled against two different C libraries: glibc and klibc, glibc being the default.

Compiling against glibc will result in a dynamically linked executable that is not suitable for inclusion in initrds.

Compiling against klibc will result in a relatively small, statically linked binary, which can be included in an initrd.

To compile v86d against klibc, run ./configure --with-klibc after making sure that a recent (1.4 or newer) version of klibc is installed on your system.

3.2. The emulator backend
-------------------------
On x86, the code executed by v86d can be run either in a fully software-emulated environment (x86emu) or a virtualized environment (vm86) supported by the CPU. On other arches or 64-bit systems, the code is always run by x86emu.

To choose the x86emu backend on a x86 system, run ./configure --with-x86emu.

4. Installation & Usage
-----------------------
To configure, build and install v86d with the default settings, run:

# ./configure --default
# make
# make install

If the kernel that you're currently running doesn't provide uvesafb, you can use the KDIR variable to point make to a different kernel tree (e.g. `make KDIR=/usr/src/linux').

v86d isn't meant to be used in an interactive way. It should be started and called by the kernel. If you want to see it in action, build and load the uvesafb kernel module.

If you want to include v86d into an initramfs image, misc/initramfs provides a minimal config file parsable by gen_init_cpio.
5. Licensing

----------
v86d is licensed under GPL v2.

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Michal Januszewski <spock@gentoo.org>

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Version 2, June 1991

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1.150 vim 7.4.155 :r0

1.151 vim 7.3.429
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The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 60 level includes Brian's frequency class 0 and all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package. A large number of names are also included: The 4,946 female names and 3,897 male names from the MWords package and the files "computer.names", "misc.names", and "org.names" from the DEC package.

The 65 level includes words found in the Ispell "medium" word list. The Ispell word lists are under the same copyright of Ispell itself which is:

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The 70 level includes the 74,550 common dictionary words and the 21,986 names list from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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The 95 level includes the 354,984 single words and 256,772 compound
words from the MWords package, ABLE.LST from the ENABLE Supplement,
and some additional words found in my part-of-speech database that
were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and
Canadian word list.

Since the original word lists used in the VARCON package came from
the Ispell distribution they are under the Ispell copyright.

The variant word lists were created from a list of variants found in
the 12dicts supplement package as well as a list of variants I created
myself.

===================================================

en_GB:
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It has been extensively updated by David Bartlett, Brian Kelk
and Andrew Brown:
- numerous Americanism have been removed
- numerous American spellings have been corrected
- missing words have been added
- many errors have been corrected
- compound hyphenated words have been added where appropriate

Valuable inputs to this process were received from many other
people - far too numerous to name. Serious thanks to you all
for your greatly appreciated help.
This word list is intended to be a good representation of current modern British English and thus it should be a good basis for Commonwealth English in most countries of the world outside North America.

The affix file has been created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

In creating the affix rules an attempt has been made to reproduce the most general rules for English word formation, rather than merely use it as a means to compress the size of the dictionary. It is hoped that this will facilitate future localisation to other variants of English.

Please let David Bartlett <dwb@openoffice.org> know of any errors that you find.

The current release is R 1.18, 11/04/05

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NZ English Dictionary v0.9 beta - Build 06SEP03

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NB This is an initial version, please check:
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http://www.girlza.com/dictionary/download.html for a final version, after a little while (no hurry).

This dictionary is based on the en_GB Myspell dictionary which in turn was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

Introduction

en_NZ.dic has been altered to include New Zealand places, including major cities and towns, and major suburbs. It also contains NZ words, organisations and expressions.
en_NZ.aff has had a few REPlace strings added, but is basically unchanged.

Acknowledgements
~~~~~~~~~~~~~~~~
Thanks must go to the original creators of the British dictionary, David Bartlett, Brian Kelk and Andrew Brown.

I wouldn’t have started this without seeing the Australian dictionary, thanks Kelvin Eldridge, Jean Hollis Weber and David Wilson.

And thank you to all who’ve contributed to OpenOffice.org.

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Issues
~~~~~~
Many of the proper nouns already in the dictionary do not have an affix for ’s.
All my new words start after the z’s of the original dictionary.

Contact
~~~~~~~
Contact Tristan Burtenshaw (hooty@slingshot.co.nz) with any words, places or other suggestions for the dictionary.

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Visual Studio - Vim Integration

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VisVim is a Visual Studio Add-In that allows Vim to be integrated as the default text editor. It will be used instead of the Visual Studio built-in editor when you double-click on a file or press F4 after compiling (it will go to the proper line in the Vim buffer). The file can be loaded exclusively by Vim or additionally to the builtin Visual Studio editor (this option can be set in the VisVim configuration dialog inside Visual Studio). Vim does not replace the Visual Studio editor, it still runs in its own window.

VisVim is based upon VisEmacs by Christopher Payne (Copyright (C) Christopher Payne 1997).

Author: Heiko Erhardt <Heiko.Erhardt@munich.netsurf.de>
Based upon: VisEmacs by Christopher Payne <payneca@sagian.com>
Version: 1.0
Created: 23 Oct 1997
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Requirements
------------

VisVim works with the *OLE-enabled* version of Vim version 5.0 and higher
only!!! You must download the extra archive containing the OLE-enabled
executable from your Vim download site. When building your own Vim
executable, use the if_ole_vc.mak makefile (Vim 5.1 and higher).
VisVim needs DevStudio 5.0 or higher. It does not work with DevStudio 4.2.

Installation
------------

1) Close running instances of DevStudio.

2) Copy VisVim.dll into a convenient directory like \vim,
   \vim\lib, or \vim\addin

3) Register the DLL using regsvr32.exe ... (Skip this on Windows 95/98)
   Example:
   > cd \vim\addin
   > regsvr32 VisVim.dll
   On NT, you should do this from an administrator account.
   Before installing a new version of VisVim you should unregister
   the old one using
   > regsvr32 -unregister VisVim.dll
   The batch files register.bat and unregister.bat can do that for you.

3a) If you didn't do this yet: Register the OLE gvim:
   > gvim -register

4) Start Visual Studio and go to:
   Tools
   Customize...
   Add-Ins and Macro Files
5) Click on Browse, and point Visual Studio to your VisVim.dll file.

6) Click the checkbox to indicate that you want to use the Add-In, and Close the Customize dialog box.

7) You should notice the VisVim Toolbar with the Vim Icon. Click the first item of the toolbar to get to the options dialog.

Compiling VisVim

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Two Options:

1) Load the VisVim.mak file as a Workspace in Visual Studio and compile

2) Use the MSVC command line compiler: vcvars32 nmake -f VisVim.mak

Using VisVim

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The VisVim DLL exposes several functions to the user. These functions are accessible using the toolbar or by assigning hotkeys to them (see below). The following functions are visible on the toolbar (from left to right):

1. VisVim settings dialog
   The settings you adjust here will be saved in the registry and will be reloaded on program startup.

2. Enable Vim
   Enables Vim as Visual Studio editor. Control will be switched to Vim when:
   - Clicking a file in the file view
   - Clicking a compiler error message line
   - Using the 'File-Open' Dialog
   - Showing the current source line when encountering a debugger breakpoint.
   - Using File-New

3. Disable Vim
   The internal Visual Studio editor will be used to edit files.

4. Toggle enable state
   Toggles the enable state of VisVim. Use this function if you want to have one button only to activate/deactivate Vim.
5. Load current file in Vim
   Loads the file shown in the internal editor into Vim. Use this function if you want the internal editor to stay active and just edit one file in Vim. This command works always whether Vim is enabled as default editor or not.

You cannot use DevStudio's debugger commands from inside Vim, so you should disable Vim before running the debugger.

You can customize the Vim toolbar itself or add the Vim buttons to other toolbars.
To have fast access to the VisVim options dialog I suggest to create keyboard shortcuts:

1) Choose
   Tools
   Customize...
   Keyboard
2) Choose Category: AddIns and Commands: VisVim.
3) Choose 'Main' as editor, enter each hotkey and press the Assign button.
   I suggest:
   VisVimDialogCmd   Alt+Shift+V
   VisVimEnableCmd   Alt+Shift+E
   VisVimDisableCmd  Alt+Shift+D
   VisVimToggleCmd   Alt+Shift+T
   VisVimLoadCmd     Alt+Shift+G
4) Close the dialog

Now a typical debugging example:

Using "Alt+Shift+d" you turn off Vim before starting the debugger. After hitting the breakpoint you single step through your application using the internal source code editor and examine variables. When you stumble across the line with the null pointer assignment, just press "Alt+Shift+g", and correct the error in Vim. Save the file, press Alt+Tab to return to DevStudio and press F7 to compile. That's it.

Troubleshooting
---------------

1. When opening a file in DevStudio the file is opened in the DevStudio editor and immediately vanishes. No Vim shows up.
   Cause:    Probably you don't have the OLE-enabled Vim or you didn't register it.
   Explanation: VisVim is notified by DevStudio if an 'open document' event occurs. It then closes the document in the internal editor and tries to start Vim. If Vim isn't properly OLE-registered,
this won't work.  
Workaround: Download and install the OLE-enable version of Vim and execute "gvim -register".

2. Sometimes when clicking on a file, the file won't be opened by Vim but instead the Visual Studio editor comes up.  
Cause: The file was already loaded by the DevStudio editor.  
Explanation: VisVim works by hooks exposed by Visual Studio. Most of the functionality works from the OpenDocument hook. If a document is already loaded in the Visual Studio editor, no 'open document' event will be generated when clicking the file in the file list.  
Workaround: Close the document in Visual Studio first.

3. I can't get VisVim to work. Either the Vim toolbar does not appear at all or weird crashes happen.  
Cause: The Visual Studio installation is messed up.  
Explanation: I can't give you one. Ask M$.  
Workaround: Reinstall DevStudio (I know this is brute, but in some cases it helped). There was one case where the service pack I had to be installed, too.

4. If an instance of Vim is already running, VisVim will use that instance and not start a new one.  
Cause: This is proper OLE behaviour  
Explanation: Some call it a bug, some a feature. That's just the way OLE works.

5. When being in insert mode in Vim and selecting a file in Visual Studio, the Vim command :e ... is inserted as text instead of being executed.  
Cause: You probably know...  
Explanation: The Vim OLE automation interface interprets the VisVim commands as if they were typed in by the user. So if you're in insert mode Vim considers it to be text. I decided against sending an ESC before the command because it may cause a beep or at least a screen flash when noeb is set.  
Workaround: Get used to press ESC before switching to DevStudio.

6. I'm tired of VisVim but I can't get rid of it. I can't delete it in Tools-Customize-Add-Ins.  
Cause: You can't delete an item you once added to the add-ins list box.  
Explanation: M$ just didn't put a 'delete' button in the dialog box. Unfortunately there is no DEL key accelerator as well...  
Workaround: You can't kill it, but you can knock it out:  
1. Uncheck the check box in front of 'Vim Developer Studio Add-in'.
3. Delete VisVim.dll or move it somewhere it can't be found.
5. Tools -> Cursomize -> Add-ins and Macro-Files.
6. A message appears:
   ".../VisVim.dll" "This add-in no longer exists. It will
   no longer be displayed."
That's it!

Change history
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1.0a to 1.0
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- All settings in the VisVim dialog are remembered between DevStudio sessions
  by keeping them in the registry (HKEY_CURRENT_USER\Software\Vim\VisVim).
- Added an option to do a :cd before opening the file (having a file opened
  by clicking it but finding out to be still in C:\Windows\system when trying to
  open another file by ":e" can be annoying). Change directory can be
done to the source file's directory or it's parent directory.
- Added some explanations to the error message for the CO_E_CLASSSTRING error
  ("Use OLE Vim and make sure to register...").

1.0 to 1.1a
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- The VisVim toolbar button now shows the new Vim icon instead of the old one.
- Made some changes to the documentation, added the troubleshooting chapter
  and ToDo list.
- File-New-* now invokes Vim instead of the builtin editor if enabled.

1.1 to 1.1b
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- Extended the VisVim toolbar to have multiple buttons instead of one.
- Moved the enable/disable commands from the settings dialog to the toolbar.
- Added the toggle enable/disable command
- Added the 'load current file' command.

1.1b to 1.2
-----------

No new features, just some fine tuning:

- Changed the GUID of the VisVim OLE interface to avoid conflicts with a
  version of VisEmacs or VisVile on the same computer (Guy Gascoigne)
- Fixed a bug caused by a bug in the Developer Studio add-in code generator (Clark Morgan)
- Fixed a memory leak (Clark Morgan)
- Added an option in the VisVim dialog to prepend ESC before the first command that is sent to Vim. This will avoid inserting the command as text when Vim is still in insert mode.
- An :update command is sent to Vim before any other command to update the current file if it is modified, or else the following :cd or :e command will fail.

1.2 to 1.3a
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- Fixed a bug caused by a missing EnableModeless() function call in VimLoad(). This seems to reduce VisVim crashing DevStudio on some systems (it occasionally still seems to happen, but it's more stable now). (Vince Negri)
- Added support for the new CTRL-\CTRL-N command of Vim 5.4a. This prevents Vim from beeping when a VisVim command is executed an Vim is not in insert mode.

ToDo List
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P1 is highest priority, P10 lowest

P9  Switching to DevStudio using ALT-TAB may get annoying. Would be nice to have the option to map ActivateApplication("Visual Studio") in Vim. Vim DLLs would solve that problem.

P8  Execute :tag command in Vim for word under cursor in DevStudio

P7  Controlling the Visual Studio Debugger from inside Vim
    See message above. Also a 'Debug' highlight group and a command to highlight a certain line would be necessary.

P6  Provide an option to open the current file in VisVim in Visual Studio editor
    Same as above message. A kind of two way OLE automation would have to be established between VisVim and Vim. Also a 'Debug' highlight group and a command to highlight a certain line would be necessary.

Known Problems
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- Occasional memory corruptions in DevStudio may appear on some systems. Reinstalling DevStudio helped in some cases.
The cause of these crashes is unclear; there is no way to debug this. Recompiling VisVim with DevStudio SP3 didn't help. I assume it's a problem deep inside the DevStudio add-in OLE interfaces. This will hopefully be fixed with DevStudio 6.

Have fun!

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1.152 wget 1.13.4 :r15.2
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1.162 zlib 1.2.7

1.162.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.6, January 29th, 2012

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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).

*/
#ifndef ZLIB_H
#define ZLIB_H

#include "zconf.h"

#ifdef __cplusplus
extern "C" {
#endif

#define ZLIB_VERSION "1.2.6"
#define ZLIB_VERNUM 0x1260
#define ZLIB_VER_MAJOR 1
#define ZLIB_VER_MINOR 2
#define ZLIB_VER_REVISION 6
#define ZLIB_VER_SUBREVISION 0

/*
The 'zlib' compression library provides in-memory compression and
decompression functions, including integrity checks of the uncompressed data.
This version of the library supports only one compression method (deflation)
but other algorithms will be added later and will have the same stream
interface.

Compression can be done in a single step if the buffers are large enough,
or can be done by repeated calls of the compression function. In the latter
case, the application must provide more input and/or consume the output
(providing more output space) before each call.

The compressed data format used by default by the in-memory functions is
the zlib format, which is a zlib wrapper documented in RFC 1950, wrapped
around a deflate stream, which is itself documented in RFC 1951.

The library also supports reading and writing files in gzip (.gz) format
with an interface similar to that of stdio using the functions that start
with "gz". The gzip format is different from the zlib format. gzip is a
gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.

This library can optionally read and write gzip streams in memory as well.

The zlib format was designed to be compact and fast for use in memory
and on communications channels. The gzip format was designed for single-
file compression on file systems, has a larger header than zlib to maintain
directory information, and uses a different, slower check method than zlib.

The library does not install any signal handler. The decoder checks
the consistency of the compressed data, so the library should never crash
even in case of corrupted input.
*/
typedef voidpf (*alloc_func) OF((voidpf opaque, uInt items, uInt size));
typedef void (*free_func) OF((voidpf opaque, voidpf address));

struct internal_state;

typedef struct z_stream_s {
    z_const Bytef *next_in; /* next input byte */
    uInt     avail_in;  /* number of bytes available at next_in */
    uLong    total_in; /* total number of input bytes read so far */
    Bytef    *next_out; /* next output byte should be put there */
    uInt     avail_out; /* remaining free space at next_out */
    uLong    total_out; /* total number of bytes output so far */
    z_const char *msg;  /* last error message, NULL if no error */
} internal_state;

typedef struct z_stream_s {
    z_const Bytef *next_in; /* next input byte */
    uInt     avail_in;  /* number of bytes available at next_in */
    uLong    total_in; /* total number of input bytes read so far */
    Bytef    *next_out; /* next output byte should be put there */
    uInt     avail_out; /* remaining free space at next_out */
    uLong    total_out; /* total number of bytes output so far */
    z_const char *msg;  /* last error message, NULL if no error */
} internal_state;

typedef struct z_stream_s {
    z_const Bytef *next_in; /* next input byte */
    uInt     avail_in;  /* number of bytes available at next_in */
    uLong    total_in; /* total number of input bytes read so far */
    Bytef    *next_out; /* next output byte should be put there */
    uInt     avail_out; /* remaining free space at next_out */
    uLong    total_out; /* total number of bytes output so far */
    z_const char *msg;  /* last error message, NULL if no error */
    struct internal_state FAR *state; /* not visible by applications */
    alloc_func zalloc; /* used to allocate the internal state */
    free_func  zfree;   /* used to free the internal state */
    voidpf     opaque;  /* private data object passed to zalloc and zfree */
    int     data_type;  /* best guess about the data type: binary or text */
    uLong   adler;      /* adler32 value of the uncompressed data */
    uLong   reserved;   /* reserved for future use */
    z_stream; /* used to allocate the internal state */
}

typedef z_stream FAR *z_streamp;

/*
gzip header information passed to and from zlib routines. See RFC 1952
for more details on the meanings of these fields.
*/
typedef struct gz_header_s {
    int     text;       /* true if compressed data believed to be text */
    uLong   time;       /* modification time */
    int     xflags;     /* extra flags (not used when writing a gzip file) */
    int     os;         /* operating system */
    Bytef   *extra;     /* pointer to extra field or Z_NULL if none */
    uInt    extra_len;  /* extra field length (valid if extra != Z_NULL) */
    uInt    extra_max;  /* space at extra (only when reading header) */
    Bytef   *name;      /* pointer to zero-terminated file name or Z_NULL */
    uInt    name_max;   /* space at name (only when reading header) */
    Bytef   *comment;   /* pointer to zero-terminated comment or Z_NULL */
    uInt    comment_max; /* space at comment (only when reading header) */
    int     hcrc;       /* true if there was or will be a header crc */
    int     done;       /* true when done reading gzip header (not used
     when writing a gzip file) */
} gz_header;
typedef gz_header FAR *gz_headerp;

/*
The application must update next_in and avail_in when avail_in has dropped
to zero. It must update next_out and avail_out when avail_out has dropped
to zero. The application must initialize zalloc, zfree and opaque before
calling the init function. All other fields are set by the compression
library and must not be updated by the application.

The opaque value provided by the application will be passed as the first
parameter for calls of zalloc and zfree. This can be useful for custom
memory management. The compression library attaches no meaning to the
opaque value.

zalloc must return Z_NULL if there is not enough memory for the object.
If zlib is used in a multi-threaded application, zalloc and zfree must be
thread safe.

On 16-bit systems, the functions zalloc and zfree must be able to allocate
exactly 65536 bytes, but will not be required to allocate more than this if
the symbol MAXSEG_64K is defined (see zconf.h). WARNING: On MSDOS, pointers
returned by zalloc for objects of exactly 65536 bytes *must* have their
offset normalized to zero. The default allocation function provided by this
library ensures this (see zutil.c). To reduce memory requirements and avoid
any allocation of 64K objects, at the expense of compression ratio, compile
the library with -DMAX_WBITS=14 (see zconf.h).

The fields total_in and total_out can be used for statistics or progress
reports. After compression, total_in holds the total size of the
uncompressed data and may be saved for use in the decompressor (particularly
if the decompressor wants to decompress everything in a single step).
*/

/* constants */
#define Z_NO_FLUSH 0
#define Z_PARTIAL_FLUSH 1
#define Z_SYNC_FLUSH 2
#define Z_FULL_FLUSH 3
#define Z_FINISH 4
#define Z_BLOCK 5
#define Z_TREES 6
/* Allowed flush values; see deflate() and inflate() below for details */

#define Z_OK 0
#define Z_STREAM_END 1
#define Z_NEED_DICT 2
#define Z_ERRNO (-1)
#define Z_STREAM_ERROR (-2)
#define Z_DATA_ERROR (-3)
#define Z_MEM_ERROR (-4)
#define Z_BUF_ERROR (-5)
#define Z_VERSION_ERROR (-6)
/* Return codes for the compression/decompression functions. Negative values * are errors, positive values are used for special but normal events. */

#define Z_NO_COMPRESSION 0
#define Z_BEST_SPEED 1
#define Z_BEST_COMPRESSION 9
#define Z_DEFAULT_COMPRESSION (-1)
/* compression levels */

#define Z_FILTERED 1
#define Z_HUFFMAN_ONLY 2
#define Z_RLE 3
#define Z_FIXED 4
#define Z_DEFAULT_STRATEGY 0
/* compression strategy; see deflateInit2() below for details */

#define Z_BINARY 0
#define Z_TEXT 1
#define Z_ASCII Z_TEXT /* for compatibility with 1.2.2 and earlier */
#define Z_UNKNOWN 2
/* Possible values of the data_type field (though see inflate() */

#define Z_DEFLATED 8
/* The deflate compression method (the only one supported in this version) */

#define Z_NULL 0 /* for initializing zalloc, zfree, opaque */

#define zlib_version zlibVersion()
/* for compatibility with versions < 1.0.2 */

/* basic functions */

ZEXTERN const char * ZEXPORT zlibVersion OF((void));
/* The application can compare zlibVersion and ZLIB_VERSION for consistency. If the first character differs, the library code actually used is not compatible with the zlib.h header file used by the application. This check is automatically made by deflateInit and inflateInit. */
/*
ZEXTERN int ZEXPORT deflateInit OF(((z_streamp strm, int level));

 Initializes the internal stream state for compression. The fields
zalloc, zfree and opaque must be initialized before by the caller. If
zalloc and zfree are set to NULL, deflateInit updates them to use default
allocation functions.

 The compression level must be Z_DEFAULT_COMPRESSION, or between 0 and 9:
1 gives best speed, 9 gives best compression, 0 gives no compression at all
(the input data is simply copied a block at a time). Z_DEFAULT_COMPRESSION
requests a default compromise between speed and compression (currently
equivalent to level 6).

deflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough
memory, Z_STREAM_ERROR if level is not a valid compression level, or
Z_VERSION_ERROR if the zlib library version (zlib_version) is incompatible
with the version assumed by the caller (ZLIB_VERSION). msg is set to null
if there is no error message. deflateInit does not perform any compression:
this will be done by deflate().
*/

ZEXTERN int ZEXPORT deflate OF(((z_streamp strm, int flush));
/*
 deflate compresses as much data as possible, and stops when the input
buffer becomes empty or the output buffer becomes full. It may introduce
some output latency (reading input without producing any output) except when
forced to flush.

 The detailed semantics are as follows. deflate performs one or both of the
following actions:

- Compress more input starting at next_in and update next_in and avail_in
  accordingly. If not all input can be processed (because there is not
  enough room in the output buffer), next_in and avail_in are updated and
  processing will resume at this point for the next call of deflate().

- Provide more output starting at next_out and update next_out and avail_out
  accordingly. This action is forced if the parameter flush is non zero.
  Forcing flush frequently degrades the compression ratio, so this parameter
  should be set only when necessary (in interactive applications). Some
  output may be provided even if flush is not set.

 Before the call of deflate(), the application should ensure that at least
one of the actions is possible, by providing more input and/or consuming more
output, and updating avail_in or avail_out accordingly; avail_out should
never be zero before the call. The application can consume the compressed
output when it wants, for example when the output buffer is full (avail_out == 0), or after each call of deflate(). If deflate returns Z_OK and with zero avail_out, it must be called again after making room in the output buffer because there might be more output pending.

Normally the parameter flush is set to Z_NO_FLUSH, which allows deflate to decide how much data to accumulate before producing output, in order to maximize compression.

If the parameter flush is set to Z_SYNC_FLUSH, all pending output is flushed to the output buffer and the output is aligned on a byte boundary, so that the decompressor can get all input data available so far. (In particular avail_in is zero after the call if enough output space has been provided before the call.) Flushing may degrade compression for some compression algorithms and so it should be used only when necessary. This completes the current deflate block and follows it with an empty stored block that is three bits plus filler bits to the next byte, followed by four bytes (00 00 ff ff).

If flush is set to Z_PARTIAL_FLUSH, all pending output is flushed to the output buffer, but the output is not aligned to a byte boundary. All of the input data so far will be available to the decompressor, as for Z_SYNC_FLUSH. This completes the current deflate block and follows it with an empty fixed codes block that is 10 bits long. This assures that enough bytes are output in order for the decompressor to finish the block before the empty fixed code block.

If flush is set to Z_BLOCK, a deflate block is completed and emitted, as for Z_SYNC_FLUSH, but the output is not aligned on a byte boundary, and up to seven bits of the current block are held to be written as the next byte after the next deflate block is completed. In this case, the decompressor may not be provided enough bits at this point in order to complete decompression of the data provided so far to the compressor. It may need to wait for the next block to be emitted. This is for advanced applications that need to control the emission of deflate blocks.

If flush is set to Z_FULL_FLUSH, all output is flushed as with Z_SYNC_FLUSH, and the compression state is reset so that decompression can restart from this point if previous compressed data has been damaged or if random access is desired. Using Z_FULL_FLUSH too often can seriously degrade compression.

If deflate returns with avail_out == 0, this function must be called again with the same value of the flush parameter and more output space (updated avail_out), until the flush is complete (deflate returns with non-zero avail_out). In the case of a Z_FULL_FLUSH or Z_SYNC_FLUSH, make sure that avail_out is greater than six to avoid repeated flush markers due to avail_out == 0 on return.
If the parameter flush is set to Z_FINISH, pending input is processed, pending output is flushed and deflate returns with Z_STREAM_END if there was enough output space; if deflate returns with Z_OK, this function must be called again with Z_FINISH and more output space (updated avail_out) but no more input data, until it returns with Z_STREAM_END or an error. After deflate has returned Z_STREAM_END, the only possible operations on the stream are deflateReset or deflateEnd.

Z_FINISH can be used immediately after deflateInit if all the compression is to be done in a single step. In this case, avail_out must be at least the value returned by deflateBound (see below). Then deflate is guaranteed to return Z_STREAM_END. If not enough output space is provided, deflate will not return Z_STREAM_END, and it must be called again as described above.

deflate() sets strm->adler to the adler32 checksum of all input read so far (that is, total_in bytes).

deflate() may update strm->data_type if it can make a good guess about the input data type (Z_BINARY or Z_TEXT). In doubt, the data is considered binary. This field is only for information purposes and does not affect the compression algorithm in any manner.

deflate() returns Z_OK if some progress has been made (more input processed or more output produced), Z_STREAM_END if all input has been consumed and all output has been produced (only when flush is set to Z_FINISH), Z_STREAM_ERROR if the stream state was inconsistent (for example if next_in or next_out was Z_NULL), Z_BUF_ERROR if no progress is possible (for example avail_in or avail_out was zero). Note that Z_BUF_ERROR is not fatal, and deflate() can be called again with more input and more output space to continue compressing.

*/

ZEXTERN int ZEXPORT deflateEnd OF((z_streamp strm));
/*
 All dynamically allocated data structures for this stream are freed.
 This function discards any unprocessed input and does not flush any pending output.

deflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent, Z_DATA_ERROR if the stream was freed prematurely (some input or output was discarded). In the error case, msg may be set but then points to a static string (which must not be deallocated).
*/
/*
ZEXTERN int ZEXPORT inflateInit OF((z_streamp strm));

Initializes the internal stream state for decompression. The fields
next_in, avail_in, zalloc, zfree and opaque must be initialized before by
the caller. If next_in is not Z_NULL and avail_in is large enough (the
exact value depends on the compression method), inflateInit determines the
compression method from the zlib header and allocates all data structures
accordingly; otherwise the allocation will be deferred to the first call of
inflate. If zalloc and zfree are set to Z_NULL, inflateInit updates them to
use default allocation functions.

inflateInit returns Z_OK if success, Z_MEM_ERROR if there was not enough
memory, Z_VERSION_ERROR if the zlib library version is incompatible with the
version assumed by the caller, or Z_STREAM_ERROR if the parameters are
invalid, such as a null pointer to the structure. msg is set to null if
there is no error message. inflateInit does not perform any decompression
apart from possibly reading the zlib header if present: actual decompression
will be done by inflate(). (So next_in and avail_in may be modified, but
next_out and avail_out are unused and unchanged.) The current implementation
of inflateInit() does not process any header information -- that is deferred
until inflate() is called.
*/

ZEXTERN int ZEXPORT inflate OF((z_streamp strm, int flush));
/*
inflate decompresses as much data as possible, and stops when the input
buffer becomes empty or the output buffer becomes full. It may introduce
some output latency (reading input without producing any output) except when
forced to flush.

The detailed semantics are as follows. inflate performs one or both of the
following actions:

- Decompress more input starting at next_in and update next_in and avail_in
  accordingly. If not all input can be processed (because there is not
  enough room in the output buffer), next_in is updated and processing will
  resume at this point for the next call of inflate().

- Provide more output starting at next_out and update next_out and avail_out
  accordingly. inflate() provides as much output as possible, until there is
  no more input data or no more space in the output buffer (see below about
  the flush parameter).

Before the call of inflate(), the application should ensure that at least
one of the actions is possible, by providing more input and/or consuming more
output, and updating the next_ * and avail_ * values accordingly. The
application can consume the uncompressed output when it wants, for example when the output buffer is full (avail_out == 0), or after each call of inflate(). If inflate returns Z_OK and with zero avail_out, it must be called again after making room in the output buffer because there might be more output pending.

The flush parameter of inflate() can be Z_NO_FLUSH, Z_SYNC_FLUSH, Z_FINISH, Z_BLOCK, or Z_TREES. Z_SYNC_FLUSH requests that inflate() flush as much output as possible to the output buffer. Z_BLOCK requests that inflate() stop if and when it gets to the next deflate block boundary. When decoding the zlib or gzip format, this will cause inflate() to return immediately after the header and before the first block. When doing a raw inflate, inflate() will go ahead and process the first block, and will return when it gets to the end of that block, or when it runs out of data.

The Z_BLOCK option assists in appending to or combining deflate streams. Also to assist in this, on return inflate() will set strm->data_type to the number of unused bits in the last byte taken from strm->next_in, plus 64 if inflate() is currently decoding the last block in the deflate stream, plus 128 if inflate() returned immediately after decoding an end-of-block code or decoding the complete header up to just before the first byte of the deflate stream. The end-of-block will not be indicated until all of the uncompressed data from that block has been written to strm->next_out. The number of unused bits may in general be greater than seven, except when bit 7 of data_type is set, in which case the number of unused bits will be less than eight. data_type is set as noted here every time inflate() returns for all flush options, and so can be used to determine the amount of currently consumed input in bits.

The Z_TREES option behaves as Z_BLOCK does, but it also returns when the end of each deflate block header is reached, before any actual data in that block is decoded. This allows the caller to determine the length of the deflate block header for later use in random access within a deflate block. 256 is added to the value of strm->data_type when inflate() returns immediately after reaching the end of the deflate block header.

inflate() should normally be called until it returns Z_STREAM_END or an error. However if all decompression is to be performed in a single step (a single call of inflate), the parameter flush should be set to Z_FINISH. In this case all pending input is processed and all pending output is flushed; avail_out must be large enough to hold all the uncompressed data. (The size of the uncompressed data may have been saved by the compressor for this purpose.) The next operation on this stream must be inflateEnd to deallocate the decompression state. The use of Z_FINISH is not required to perform an inflation in one step. However it may be used to inform inflate that a faster approach can be used for the single inflate() call. Z_FINISH also informs inflate to not maintain a sliding window if the stream completes, which reduces inflate's memory footprint.
In this implementation, inflate() always flushes as much output as possible to the output buffer, and always uses the faster approach on the first call. So the effects of the flush parameter in this implementation are on the return value of inflate() as noted below, when inflate() returns early when Z_BLOCK or Z_TREES is used, and when inflate() avoids the allocation of memory for a sliding window when Z_FINISH is used.

If a preset dictionary is needed after this call (see inflateSetDictionary below), inflate sets strm->adler to the Adler-32 checksum of the dictionary chosen by the compressor and returns Z_NEED_DICT; otherwise it sets strm->adler to the Adler-32 checksum of all output produced so far (that is, total_out bytes) and returns Z_OK, Z_STREAM_END or an error code as described below. At the end of the stream, inflate() checks that its computed adler32 checksum is equal to that saved by the compressor and returns Z_STREAM_END only if the checksum is correct.

inflate() can decompress and check either zlib-wrapped or gzip-wrapped deflate data. The header type is detected automatically, if requested when initializing with inflateInit2(). Any information contained in the gzip header is not retained, so applications that need that information should instead use raw inflate, see inflateInit2() below, or inflateBack() and perform their own processing of the gzip header and trailer. When processing gzip-wrapped deflate data, strm->adler32 is set to the CRC-32 of the output produced so far. The CRC-32 is checked against the gzip trailer.

inflate() returns Z_OK if some progress has been made (more input processed or more output produced), Z_STREAM_END if the end of the compressed data has been reached and all uncompressed output has been produced, Z_NEED_DICT if a preset dictionary is needed at this point, Z_DATA_ERROR if the input data was corrupted (input stream not conforming to the zlib format or incorrect check value), Z_STREAM_ERROR if the stream structure was inconsistent (for example next_in or next_out was Z_NULL), Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if no progress is possible or if there was not enough room in the output buffer when Z_FINISH is used. Note that Z_BUF_ERROR is not fatal, and inflate() can be called again with more input and more output space to continue decompressing. If Z_DATA_ERROR is returned, the application may then call inflateSync() to look for a good compression block if a partial recovery of the data is desired.

*/

ZEXTERN int ZEXPORT inflateEnd OF((z_streamp strm));
/*
All dynamically allocated data structures for this stream are freed.
This function discards any unprocessed input and does not flush any pending output.
inflateEnd returns Z_OK if success, Z_STREAM_ERROR if the stream state was inconsistent. In the error case, msg may be set but then points to a static string (which must not be deallocated).

/* Advanced functions */

/*
The following functions are needed only in some special applications.
*/

/*
ZEXTERN int ZEXPORT deflateInit2 OF((z_streamp strm,
   int level,
   int method,
   int windowBits,
   int memLevel,
   int strategy));

This is another version of deflateInit with more compression options. The fields next_in, zalloc, zfree and opaque must be initialized before by the caller.

The method parameter is the compression method. It must be Z_DEFLATED in this version of the library.

The windowBits parameter is the base two logarithm of the window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. Larger values of this parameter result in better compression at the expense of memory usage. The default value is 15 if deflateInit is used instead.

windowBits can also be -8..-15 for raw deflate. In this case, -windowBits determines the window size. deflate() will then generate raw deflate data with no zlib header or trailer, and will not compute an adler32 check value.

windowBits can also be greater than 15 for optional gzip encoding. Add 16 to windowBits to write a simple gzip header and trailer around the compressed data instead of a zlib wrapper. The gzip header will have no file name, no extra data, no comment, no modification time (set to zero), no header crc, and the operating system will be set to 255 (unknown). If a gzip stream is being written, strm->adler is a crc32 instead of an adler32.

The memLevel parameter specifies how much memory should be allocated for the internal compression state. memLevel=1 uses minimum memory but is slow and reduces compression ratio; memLevel=9 uses maximum memory for optimal speed. The default value is 8. See zconf.h for total memory usage.
as a function of windowBits and memLevel.

The strategy parameter is used to tune the compression algorithm. Use the value Z_DEFAULT_STRATEGY for normal data, Z_FILTERED for data produced by a filter (or predictor), Z_HUFFMAN_ONLY to force Huffman encoding only (no string match), or Z_RLE to limit match distances to one (run-length encoding). Filtered data consists mostly of small values with a somewhat random distribution. In this case, the compression algorithm is tuned to compress them better. The effect of Z_FILTERED is to force more Huffman coding and less string matching; it is somewhat intermediate between Z_DEFAULT_STRATEGY and Z_HUFFMAN_ONLY. Z_RLE is designed to be almost as fast as Z_HUFFMAN_ONLY, but give better compression for PNG image data. The strategy parameter only affects the compression ratio but not the correctness of the compressed output even if it is not set appropriately. Z_FIXED prevents the use of dynamic Huffman codes, allowing for a simpler decoder for special applications.

deflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if any parameter is invalid (such as an invalid method), or Z_VERSION_ERROR if the zlib library version (zlib_version) is incompatible with the version assumed by the caller (ZLIB_VERSION). msg is set to null if there is no error message. deflateInit2 does not perform any compression: this will be done by deflate().

ZEXTERN int ZEXPORT deflateSetDictionary OF((z_streamp strm,
   const Bytef *dictionary,
   uInt  dictLength));
/*

   Initializes the compression dictionary from the given byte sequence without producing any compressed output. When using the zlib format, this function must be called immediately after deflateInit, deflateInit2 or deflateReset, and before any call of deflate. When doing raw deflate, this function must be called either before any call of deflate, or immediately after the completion of a deflate block, i.e. after all input has been consumed and all output has been delivered when using any of the flush options Z_BLOCK, Z_PARTIAL_FLUSH, Z_SYNC_FLUSH, or Z_FULL_FLUSH. The compressor and decompressor must use exactly the same dictionary (see inflateSetDictionary).

   The dictionary should consist of strings (byte sequences) that are likely to be encountered later in the data to be compressed, with the most commonly used strings preferably put towards the end of the dictionary. Using a dictionary is most useful when the data to be compressed is short and can be predicted with good accuracy; the data can then be compressed better than with the default empty dictionary.

   Depending on the size of the compression data structures selected by
deflateInit or deflateInit2, a part of the dictionary may in effect be
discarded, for example if the dictionary is larger than the window size
provided in deflateInit or deflateInit2. Thus the strings most likely to be
useful should be put at the end of the dictionary, not at the front. In
addition, the current implementation of deflate will use at most the window
size minus 262 bytes of the provided dictionary.

Upon return of this function, strm->adler is set to the adler32 value
of the dictionary; the decompressor may later use this value to determine
which dictionary has been used by the compressor. (The adler32 value
applies to the whole dictionary even if only a subset of the dictionary is
actually used by the compressor.) If a raw deflate was requested, then the
adler32 value is not computed and strm->adler is not set.

deflateSetDictionary returns Z_OK if success, or Z_STREAM_ERROR if a
parameter is invalid (e.g. dictionary being Z_NULL) or the stream state is
inconsistent (for example if deflate has already been called for this stream
or if not at a block boundary for raw deflate). deflateSetDictionary does
not perform any compression: this will be done by deflate().
/*

ZEXTERN int ZEXPORT deflateCopy OF((z_streamp dest,
    z_streamp source));
/*
   Sets the destination stream as a complete copy of the source stream.

This function can be useful when several compression strategies will be
tried, for example when there are several ways of pre-processing the input
data with a filter. The streams that will be discarded should then be freed
by calling deflateEnd. Note that deflateCopy duplicates the internal
compression state which can be quite large, so this strategy is slow and can
consume lots of memory.

deflateCopy returns Z_OK if success, Z_MEM_ERROR if there was not
enough memory, Z_STREAM_ERROR if the source stream state was inconsistent
(such as zalloc being Z_NULL). msg is left unchanged in both source and
destination.
/*

ZEXTERN int ZEXPORT deflateReset OF((z_streamp strm));
/*
   This function is equivalent to deflateEnd followed by deflateInit,
   but does not free and reallocate all the internal compression state. The
   stream will keep the same compression level and any other attributes that
   may have been set by deflateInit2.

deflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source
stream state was inconsistent (such as zalloc or state being Z_NULL).


/*

ZEXTERN int ZEXPORT deflateParams OF((z_streamp strm,
   int level,
   int strategy));

*/

Dynamically update the compression level and compression strategy. The
interpretation of level and strategy is as in deflateInit2. This can be
used to switch between compression and straight copy of the input data, or
to switch to a different kind of input data requiring a different strategy.
If the compression level is changed, the input available so far is
compressed with the old level (and may be flushed); the new level will take
effect only at the next call of deflate().

Before the call of deflateParams, the stream state must be set as for
a call of deflate(), since the currently available input may have to be
compressed and flushed. In particular, strm->avail_out must be non-zero.

deflateParams returns Z_OK if success, Z_STREAM_ERROR if the source
stream state was inconsistent or if a parameter was invalid, Z_BUF_ERROR if
strm->avail_out was zero.

*/

ZEXTERN int ZEXPORT deflateTune OF((z_streamp strm,
   int good_length,
   int max_lazy,
   int nice_length,
   int max_chain));

Fine tune deflate’s internal compression parameters. This should only be
used by someone who understands the algorithm used by zlib’s deflate for
searching for the best matching string, and even then only by the most
fanatic optimizer trying to squeeze out the last compressed bit for their
specific input data. Read the deflate.c source code for the meaning of the
max_lazy, good_length, nice_length, and max_chain parameters.

deflateTune() can be called after deflateInit() or deflateInit2(), and
returns Z_OK on success, or Z_STREAM_ERROR for an invalid deflate stream.

*/

ZEXTERN uLong ZEXPORT deflateBound OF((z_streamp strm,
   uLong sourceLen));

/*

deflateBound() returns an upper bound on the compressed size after
deflation of sourceLen bytes. It must be called after deflateInit() or
deflateInit2(), and after deflateSetHeader(), if used. This would be used
to allocate an output buffer for deflation in a single pass, and so would be
called before deflate(). If that first deflate() call is provided the
sourceLen input bytes, an output buffer allocated to the size returned by deflateBound(), and the flush value Z_FINISH, then deflate() is guaranteed to return Z_STREAM_END. Note that it is possible for the compressed size to be larger than the value returned by deflateBound() if flush options other than Z_FINISH or Z_NO_FLUSH are used.

*/

ZEXTERN int ZEXPORT deflatePending OF((z_streamp strm,
          unsigned *pending,
          int *bits));

/*
   deflatePending() returns the number of bytes and bits of output that have been generated, but not yet provided in the available output. The bytes not provided would be due to the available output space having been consumed. The number of bits of output not provided are between 0 and 7, where they await more bits to join them in order to fill out a full byte. If pending or bits are Z_NULL, then those values are not set.

   deflatePending returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent.

*/

ZEXTERN int ZEXPORT deflatePrime OF((z_streamp strm,
          int bits,
          int value));

/*
   deflatePrime() inserts bits in the deflate output stream. The intent is that this function is used to start off the deflate output with the bits leftover from a previous deflate stream when appending to it. As such, this function can only be used for raw deflate, and must be used before the first deflate() call after a deflateInit2() or deflateReset(). bits must be less than or equal to 16, and that many of the least significant bits of value will be inserted in the output.

   deflatePrime returns Z_OK if success, Z_BUF_ERROR if there was not enough room in the internal buffer to insert the bits, or Z_STREAM_ERROR if the source stream state was inconsistent.

*/

ZEXTERN int ZEXPORT deflateSetHeader OF((z_streamp strm,
          gz_headerp head));

/*
   deflateSetHeader() provides gzip header information for when a gzip stream is requested by deflateInit2(). deflateSetHeader() may be called after deflateInit2() or deflateReset() and before the first call of deflate(). The text, time, os, extra field, name, and comment information in the provided gz_header structure are written to the gzip header (xflag is ignored -- the extra flags are set according to the compression level). The
The caller must assure that, if not Z_NULL, name and comment are terminated with a zero byte, and that if extra is not Z_NULL, that extra_len bytes are available there. If hrc is true, a gzip header crc is included. Note that the current versions of the command-line version of gzip (up through version 1.3.x) do not support header crc's, and will report that it is a "multi-part gzip file" and give up.

If deflateSetHeader is not used, the default gzip header has text false, the time set to zero, and os set to 255, with no extra, name, or comment fields. The gzip header is returned to the default state by deflateReset().

deflateSetHeader returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent.

/*

ZEXTERN int ZEXPORT inflateInit2 OF((z_streamp strm, int  windowBits));

This is another version of inflateInit with an extra parameter. The fields next_in, avail_in, zalloc, zfree and opaque must be initialized before by the caller.

The windowBits parameter is the base two logarithm of the maximum window size (the size of the history buffer). It should be in the range 8..15 for this version of the library. The default value is 15 if inflateInit is used instead. windowBits must be greater than or equal to the windowBits value provided to deflateInit2() while compressing, or it must be equal to 15 if deflateInit2() was not used. If a compressed stream with a larger window size is given as input, inflate() will return with the error code Z_DATA_ERROR instead of trying to allocate a larger window.

windowBits can also be zero to request that inflate use the window size in the zlib header of the compressed stream.

windowBits can also be -8..-15 for raw inflate. In this case, -windowBits determines the window size. inflate() will then process raw deflate data, not looking for a zlib or gzip header, not generating a check value, and not looking for any check values for comparison at the end of the stream. This is for use with other formats that use the deflate compressed data format such as zip. Those formats provide their own check values. If a custom format is developed using the raw deflate format for compressed data, it is recommended that a check value such as an adler32 or a crc32 be applied to the uncompressed data as is done in the zlib, gzip, and zip formats. For most applications, the zlib format should be used as is. Note that comments above on the use in deflateInit2() applies to the magnitude of windowBits.

windowBits can also be greater than 15 for optional gzip decoding. Add
32 to windowBits to enable zlib and gzip decoding with automatic header
detection, or add 16 to decode only the gzip format (the zlib format will
return a Z_DATA_ERROR). If a gzip stream is being decoded, strm->adler is a
crc32 instead of an adler32.

inflateInit2 returns Z_OK if success, Z_MEM_ERROR if there was not enough
memory, Z_VERSION_ERROR if the zlib library version is incompatible with the
version assumed by the caller, or Z_STREAM_ERROR if the parameters are
invalid, such as a null pointer to the structure. msg is set to null if
there is no error message. inflateInit2 does not perform any decompression
apart from possibly reading the zlib header if present: actual decompression
will be done by inflate(). (So next_in and avail_in may be modified, but
next_out and avail_out are unused and unchanged.) The current implementation
of inflateInit2() does not process any header information -- that is
delayed until inflate() is called.
*/

ZEXTERN int ZEXPORT inflateSetDictionary OF((z_streamp strm,
       const Bytef *dictionary,
       uInt  dictLength));
/*
   Initializes the decompression dictionary from the given uncompressed byte
sequence. This function must be called immediately after a call of inflate,
if that call returned Z_NEED_DICT. The dictionary chosen by the compressor
can be determined from the adler32 value returned by that call of inflate.
The compressor and decompressor must use exactly the same dictionary (see
deflateSetDictionary). For raw inflate, this function can be called at any
time to set the dictionary. If the provided dictionary is smaller than the
window and there is already data in the window, then the provided dictionary
will amend what's there. The application must insure that the dictionary
that was used for compression is provided.

   inflateSetDictionary returns Z_OK if success, Z_STREAM_ERROR if a
parameter is invalid (e.g. dictionary being Z_NULL) or the stream state is
inconsistent, Z_DATA_ERROR if the given dictionary doesn't match the
expected one (incorrect adler32 value). inflateSetDictionary does not
perform any decompression: this will be done by subsequent calls of
inflate().
*/

ZEXTERN int ZEXPORT inflateSync OF((z_streamp strm));
/*
   Skips invalid compressed data until a possible full flush point (see above
for the description of deflate with Z_FULL_FLUSH) can be found, or until all
available input is skipped. No output is provided.

   inflateSync searches for a 00 00 FF FF pattern in the compressed data.
All full flush points have this pattern, but not all occurrences of this
pattern are full flush points.

inflateSync returns Z_OK if a possible full flush point has been found, Z_BUF_ERROR if no more input was provided, Z_DATA_ERROR if no flush point has been found, or Z_STREAM_ERROR if the stream structure was inconsistent. In the success case, the application may save the current current value of total_in which indicates where valid compressed data was found. In the error case, the application may repeatedly call inflateSync, providing more input each time, until success or end of the input data.

*/

ZEXTERN int ZEXPORT inflateCopy OF((z_streamp dest,
   z_streamp source));
/*
   Sets the destination stream as a complete copy of the source stream.

   This function can be useful when randomly accessing a large stream. The first pass through the stream can periodically record the inflate state, allowing restarting inflate at those points when randomly accessing the stream.

   inflateCopy returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc being Z_NULL). msg is left unchanged in both source and destination.
*/

ZEXTERN int ZEXPORT inflateReset OF((z_streamp strm));
/*
   This function is equivalent to inflateEnd followed by inflateInit, but does not free and reallocate all the internal decompression state. The stream will keep attributes that may have been set by inflateInit2.

   inflateReset returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc or state being Z_NULL).
*/

ZEXTERN int ZEXPORT inflateReset2 OF((z_streamp strm,
   int windowBits));
/*
   This function is the same as inflateReset, but it also permits changing the wrap and window size requests. The windowBits parameter is interpreted the same as it is for inflateInit2.

   inflateReset2 returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent (such as zalloc or state being Z_NULL), or if the windowBits parameter is invalid.
*/
ZEXTERN int ZEXPORT inflatePrime (z_streamp strm,
               int bits,
               int value));

/*
   This function inserts bits in the inflate input stream. The intent is
   that this function is used to start inflating at a bit position in the
   middle of a byte. The provided bits will be used before any bytes are used
   from next_in. This function should only be used with raw inflate, and
   should be used before the first inflate() call after inflateInit2() or
   inflateReset(). bits must be less than or equal to 16, and that many of the
   least significant bits of value will be inserted in the input.
   
   If bits is negative, then the input stream bit buffer is emptied. Then
   inflatePrime() can be called again to put bits in the buffer. This is used
   to clear out bits leftover after feeding inflate a block description prior
   to feeding inflate codes.
   
   inflatePrime returns Z_OK if success, or Z_STREAM_ERROR if the source
   stream state was inconsistent.
*/

ZEXTERN long ZEXPORT inflateMark (z_streamp strm);

/*
   This function returns two values, one in the lower 16 bits of the return
   value, and the other in the remaining upper bits, obtained by shifting the
   return value down 16 bits. If the upper value is -1 and the lower value is
   zero, then inflate() is currently decoding information outside of a block.
   If the upper value is -1 and the lower value is non-zero, then inflate is in
   the middle of a stored block, with the lower value equaling the number of
   bytes from the input remaining to copy. If the upper value is not -1, then
   it is the number of bits back from the current bit position in the input of
   the code (literal or length/distance pair) currently being processed. In
   that case the lower value is the number of bytes already emitted for that
   code.
   
   A code is being processed if inflate is waiting for more input to complete
   decoding of the code, or if it has completed decoding but is waiting for
   more output space to write the literal or match data.
   
   inflateMark() is used to mark locations in the input data for random
   access, which may be at bit positions, and to note those cases where the
   output of a code may span boundaries of random access blocks. The current
   location in the input stream can be determined from avail_in and data_type
   as noted in the description for the Z_BLOCK flush parameter for inflate.
   
   inflateMark returns the value noted above or -1 <= 16 if the provided
   source stream state was inconsistent.
inflateGetHeader() requests that gzip header information be stored in the provided gz_header structure. inflateGetHeader() may be called after inflateInit2() or inflateReset(), and before the first call of inflate(). As inflate() processes the gzip stream, head->done is zero until the header is completed, at which time head->done is set to one. If a zlib stream is being decoded, then head->done is set to -1 to indicate that there will be no gzip header information forthcoming. Note that Z_BLOCK or Z_TREES can be used to force inflate() to return immediately after header processing is complete and before any actual data is decompressed.

The text, time, xflags, and os fields are filled in with the gzip header contents. hcrc is set to true if there is a header CRC. (The header CRC was valid if done is set to one.) If extra is not Z_NULL, then extra_max contains the maximum number of bytes to write to extra. Once done is true, extra_len contains the actual extra field length, and extra contains the extra field, or that field truncated if extra_max is less than extra_len. If name is not Z_NULL, then up to name_max characters are written there, terminated with a zero unless the length is greater than name_max. If comment is not Z_NULL, then up to comm_max characters are written there, terminated with a zero unless the length is greater than comm_max. When any of extra, name, or comment are not Z_NULL and the respective field is not present in the header, then that field is set to Z_NULL to signal its absence. This allows the use of deflateSetHeader() with the returned structure to duplicate the header. However if those fields are set to allocated memory, then the application will need to save those pointers elsewhere so that they can be eventually freed.

If inflateGetHeader is not used, then the header information is simply discarded. The header is always checked for validity, including the header CRC if present. inflateReset() will reset the process to discard the header information. The application would need to call inflateGetHeader() again to retrieve the header from the next gzip stream.

inflateGetHeader returns Z_OK if success, or Z_STREAM_ERROR if the source stream state was inconsistent.

inflateBackInit() initializes the internal stream state for decompression using inflateBack() calls. The fields zalloc, zfree and opaque in strm must be initialized.
before the call. If zalloc and zfree are Z_NULL, then the default library-derived memory allocation routines are used. windowBits is the base two logarithm of the window size, in the range 8..15. window is a caller supplied buffer of that size. Except for special applications where it is assured that deflate was used with small window sizes, windowBits must be 15 and a 32K byte window must be supplied to be able to decompress general deflate streams.

See inflateBack() for the usage of these routines.

inflateBackInit will return Z_OK on success, Z_STREAM_ERROR if any of the parameters are invalid, Z_MEM_ERROR if the internal state could not be allocated, or Z_VERSION_ERROR if the version of the library does not match the version of the header file.

*/

typedef unsigned (*in_func) (void FAR *, unsigned char FAR FAR *);
typedef int (*out_func) (void FAR *, unsigned char *, unsigned);

ZEXTERN int ZEXPORT inflateBack (z_streamp strm,
in_func in, void FAR *in_desc,
out_func out, void FAR *out_desc);

/* inflateBack() does a raw inflate with a single call using a call-back interface for input and output. This is more efficient than inflate() for file i/o applications in that it avoids copying between the output and the sliding window by simply making the window itself the output buffer. This function trusts the application to not change the output buffer passed by the output function, at least until inflateBack() returns.

inflateBackInit() must be called first to allocate the internal state and to initialize the state with the user-provided window buffer. inflateBack() may then be used multiple times to inflate a complete, raw deflate stream with each call. inflateBackEnd() is then called to free the allocated state.

A raw deflate stream is one with no zlib or gzip header or trailer. This routine would normally be used in a utility that reads zip or gzip files and writes out uncompressed files. The utility would decode the header and process the trailer on its own, hence this routine expects only the raw deflate stream to decompress. This is different from the normal behavior of inflate(), which expects either a zlib or gzip header and trailer around the deflate stream.

inflateBack() uses two subroutines supplied by the caller that are then called by inflateBack() for input and output. inflateBack() calls those routines until it reads a complete deflate stream and writes out all of the uncompressed data, or until it encounters an error. The function's
parameters and return types are defined above in the in_func and out_func
typedefs. inflateBack() will call in(in_desc, &buf) which should return the
number of bytes of provided input, and a pointer to that input in buf. If
there is no input available, in() must return zero--buf is ignored in that
case--and inflateBack() will return a buffer error. inflateBack() will call
out(out_desc, buf, len) to write the uncompressed data buf[0..len-1]. out()
should return zero on success, or non-zero on failure. If out() returns
non-zero, inflateBack() will return with an error. Neither in() nor out()
are permitted to change the contents of the window provided to
inflateBackInit(), which is also the buffer that out() uses to write from.
The length written by out() will be at most the window size. Any non-zero
amount of input may be provided by in().

For convenience, inflateBack() can be provided input on the first call by
setting strm->next_in and strm->avail_in. If that input is exhausted, then
in() will be called. Therefore strm->next_in must be initialized before
calling inflateBack(). If strm->next_in is Z_NULL, then in() will be called
immediately for input. If strm->next_in is not Z_NULL, then strm->avail_in
must also be initialized, and then if strm->avail_in is not zero, input will
initially be taken from strm->next_in[0 .. strm->avail_in - 1].

The in_desc and out_desc parameters of inflateBack() is passed as the
first parameter of in() and out() respectively when they are called. These
descriptors can be optionally used to pass any information that the caller-
supplied in() and out() functions need to do their job.

On return, inflateBack() will set strm->next_in and strm->avail_in to
pass back any unused input that was provided by the last in() call. The
return values of inflateBack() can be Z_STREAM_END on success, Z_BUF_ERROR
if in() or out() returned an error, Z_DATA_ERROR if there was a format error
in the deflate stream (in which case strm->msg is set to indicate the nature
of the error), or Z_STREAM_ERROR if the stream was not properly initialized.
In the case of Z_BUF_ERROR, an input or output error can be distinguished
using strm->next_in which will be Z_NULL only if in() returned an error. If
strm->next_in is not Z_NULL, then the Z_BUF_ERROR was due to out() returning
non-zero. (in() will always be called before out(), so strm->next_in is
assured to be defined if out() returns non-zero.) Note that inflateBack()
cannot return Z_OK.

*/

ZEXTERN int ZEXPORT inflateBackEnd OF((z_streamp strm));
/*

All memory allocated by inflateBackInit() is freed.

inflateBackEnd() returns Z_OK on success, or Z_STREAM_ERROR if the stream
state was inconsistent.

*/
ZEXTERN uLong ZEXPORT zlibCompileFlags OF((void));
/* Return flags indicating compile-time options.

Type sizes, two bits each, 00 = 16 bits, 01 = 32, 10 = 64, 11 = other:
1.0: size of uInt
3.2: size of uLong
5.4: size of voidpf (pointer)
7.6: size of z_off_t

Compiler, assembler, and debug options:
8: DEBUG
9: ASMV or ASMINF -- use ASM code
10: ZLIB_WINAPI -- exported functions use the WINAPI calling convention
11: 0 (reserved)

One-time table building (smaller code, but not thread-safe if true):
12: BUILDFIXED -- build static block decoding tables when needed
13: DYNAMIC_CRC_TABLE -- build CRC calculation tables when needed
14,15: 0 (reserved)

Library content (indicates missing functionality):
16: NO_GZCOMPRESS -- gz* functions cannot compress (to avoid linking
deflate code when not needed)
17: NO_GZIP -- deflate can't write gzip streams, and inflate can't detect
and decode gzip streams (to avoid linking crc code)
18-19: 0 (reserved)

Operation variations (changes in library functionality):
20: PKZIP_BUG_WORKAROUND -- slightly more permissive inflate
21: FASTEST -- deflate algorithm with only one, lowest compression level
22,23: 0 (reserved)

The sprintf variant used by gzprintf (zero is best):
24: 0 = vs*, 1 = s* -- 1 means limited to 20 arguments after the format
25: 0 = *nprintf, 1 = *printf -- 1 means gzprintf() not secure!
26: 0 = returns value, 1 = void -- 1 means inferred string length returned

Remainder:
27-31: 0 (reserved)
*/

#ifndef Z_SOLO

/* utility functions */

/*

The following utility functions are implemented on top of the basic
stream-oriented functions. To simplify the interface, some default options
are assumed (compression level and memory usage, standard memory allocation functions). The source code of these utility functions can be modified if you need special options.

*/

ZEXTERN int ZEXPORT compress OF((Bytef *dest, uLongf *destLen, const Bytef *source, uLong sourceLen));

/*
  Compresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

  compress returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer.
  */

ZEXTERN int ZEXPORT compress2 OF((Bytef *dest, uLongf *destLen, const Bytef *source, uLong sourceLen, int level));

/*
  Compresses the source buffer into the destination buffer. The level parameter has the same meaning as in deflateInit. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be at least the value returned by compressBound(sourceLen). Upon exit, destLen is the actual size of the compressed buffer.

  compress2 returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer, Z_STREAM_ERROR if the level parameter is invalid.
  */

ZEXTERN uLong ZEXPORT compressBound OF((uLong sourceLen));

/*
  compressBound() returns an upper bound on the compressed size after compress() or compress2() on sourceLen bytes. It would be used before a compress() or compress2() call to allocate the destination buffer.
  */

ZEXTERN int ZEXPORT uncompress OF((Bytef *dest, uLongf *destLen, const Bytef *source, uLong sourceLen));

/*
  Decompresses the source buffer into the destination buffer. sourceLen is the byte length of the source buffer. Upon entry, destLen is the total size of the destination buffer, which must be large enough to hold the entire
uncompressed data. (The size of the uncompressed data must have been saved previously by the compressor and transmitted to the decompressor by some mechanism outside the scope of this compression library.) Upon exit, destLen is the actual size of the uncompressed buffer.

uncompress returns Z_OK if success, Z_MEM_ERROR if there was not enough memory, Z_BUF_ERROR if there was not enough room in the output buffer, or Z_DATA_ERROR if the input data was corrupted or incomplete. In the case where there is not enough room, uncompress() will fill the output buffer with the uncompressed data up to that point.

/* gzip file access functions */

/*
This library supports reading and writing files in gzip (.gz) format with an interface similar to that of stdio, using the functions that start with "gz". The gzip format is different from the zlib format. gzip is a gzip wrapper, documented in RFC 1952, wrapped around a deflate stream.
*/

typedef struct gzFile_s *gzFile; /* semi-opaque gzip file descriptor */

/*
ZEXTERN gzFile ZEXPORT gzopen OF((const char *path, const char *mode));

Opens a gzip (.gz) file for reading or writing. The mode parameter is as in fopen ("rb" or "wb") but can also include a compression level ("wb9") or a strategy: 'f' for filtered data as in "wb6f", 'h' for Huffman-only compression as in "wb1h", 'R' for run-length encoding as in "wb1R", or 'F' for fixed code compression as in "wb9F". (See the description of deflateInit2 for more information about the strategy parameter.) 'T' will request transparent writing or appending with no compression and not using the gzip format.

"a" can be used instead of "w" to request that the gzip stream that will be written be appended to the file. "+" will result in an error, since reading and writing to the same gzip file is not supported.

These functions, as well as gzip, will read and decode a sequence of gzip streams in a file. The append function of gzopen() can be used to create such a file. (Also see gzflush() for another way to do this.) When appending, gzopen does not test whether the file begins with a gzip stream, nor does it look for the end of the gzip streams to begin appending. gzopen will simply append a gzip stream to the existing file.

gzopen can be used to read a file which is not in gzip format; in this case gzread will directly read from the file without decompression. When
reading, this will be detected automatically by looking for the magic two-byte gzip header.

gzopen returns NULL if the file could not be opened, if there was insufficient memory to allocate the gzFile state, or if an invalid mode was specified (an 'r', 'w', or 'a' was not provided, or '+' was provided). errno can be checked to determine if the reason gzopen failed was that the file could not be opened.

/*
ZEXTERN gzFile ZEXPORT gzdopen OF((int fd, const char *mode));
/*
gzdopen associates a gzFile with the file descriptor fd. File descriptors are obtained from calls like open, dup, creat, pipe or fileno (if the file has been previously opened with fopen). The mode parameter is as in gzopen.

The next call of gzclose on the returned gzFile will also close the file descriptor fd, just like fclose(fdopen(fd, mode)) closes the file descriptor fd. If you want to keep fd open, use fd = dup(fd_keep); gz = gzdopen(fd, mode);. The duplicated descriptor should be saved to avoid a leak, since gzdopen does not close fd if it fails. If you are using fileno() to get the file descriptor from a FILE *, then you will have to use dup() to avoid double-close()ing the file descriptor. Both gzclose() and fclose() will close the associated file descriptor, so they need to have different file descriptors.

gzdopen returns NULL if there was insufficient memory to allocate the gzFile state, if an invalid mode was specified (an 'r', 'w', or 'a' was not provided, or '+' was provided), or if fd is -1. The file descriptor is not used until the next gz* read, write, seek, or close operation, so gzdopen will not detect if fd is invalid (unless fd is -1).

/*
ZEXTERN int ZEXPORT gzbuffer OF((gzFile file, unsigned size));
/*
Set the internal buffer size used by this library's functions. The default buffer size is 8192 bytes. This function must be called after gzopen() or gzdopen(), and before any other calls that read or write the file. The buffer memory allocation is always deferred to the first read or write. Two buffers are allocated, either both of the specified size when writing, or one of the specified size and the other twice that size when reading. A larger buffer size of, for example, 64K or 128K bytes will noticeably increase the speed of decompression (reading).

The new buffer size also affects the maximum length for gzprintf().

gzbuffer() returns 0 on success, or -1 on failure, such as being called too late.
ZEXTERN int ZEXPORT gzsetparams OF((gzFile file, int level, int strategy));
/*
 * Dynamically update the compression level or strategy. See the description
 * of deflateInit2 for the meaning of these parameters.
 *
gzsetparams returns Z_OK if success, or Z_STREAM_ERROR if the file was not
opened for writing.
*/

ZEXTERN int ZEXPORT gzread OF((gzFile file, voidp buf, unsigned len));
/*
 * Reads the given number of uncompressed bytes from the compressed file. If
the input file is not in gzip format, gzread copies the given number of
bytes into the buffer directly from the file.

After reaching the end of a gzip stream in the input, gzread will continue
to read, looking for another gzip stream. Any number of gzip streams may be
concatenated in the input file, and will all be decompressed by gzread().
If something other than a gzip stream is encountered after a gzip stream,
that remaining trailing garbage is ignored (and no error is returned).

gzread can be used to read a gzip file that is being concurrently written.
Upon reaching the end of the input, gzread will return with the available
data. If the error code returned by gzerror is Z_OK or Z_BUF_ERROR, then
gzclearerr can be used to clear the end of file indicator in order to permit
gzread to be tried again. Z_OK indicates that a gzip stream was completed
on the last gzread. Z_BUF_ERROR indicates that the input file ended in the
middle of a gzip stream. Note that gzread does not return -1 in the event
of an incomplete gzip stream. This error is deferred until gzclose(), which
will return Z_BUF_ERROR if the last gzread ended in the middle of a gzip
stream. Alternatively, gzerror can be used before gzclose to detect this
case.

gzread returns the number of uncompressed bytes actually read, less than
len for end of file, or -1 for error.
*/

ZEXTERN int ZEXPORT gzwrite OF((gzFile file, voidpc buf, unsigned len));
/*
 * Writes the given number of uncompressed bytes into the compressed file.
gzwrite returns the number of uncompressed bytes written or 0 in case of
error.
*/

ZEXTERN int ZEXPORTVA gzprintf Z_ARG((gzFile file, const char *format, ...));
/* Converts, formats, and writes the arguments to the compressed file under control of the format string, as in fprintf.  gzprintf returns the number of uncompressed bytes actually written, or 0 in case of error.  The number of uncompressed bytes written is limited to 8191, or one less than the buffer size given to gzbuffer().  The caller should assure that this limit is not exceeded.  If it is exceeded, then gzprintf() will return an error (0) with nothing written.  In this case, there may also be a buffer overflow with unpredictable consequences, which is possible only if zlib was compiled with the insecure functions sprintf() or vsprintf() because the secure snprintf() or vsnprintf() functions were not available.  This can be determined using zlibCompileFlags(). */

ZEXTERN int ZEXPORT gzputs OF((gzFile file, const char *s));
/*
   Writes the given null-terminated string to the compressed file, excluding the terminating null character.

   gzputs returns the number of characters written, or -1 in case of error.
*/

ZEXTERN char * ZEXPORT gzgets OF((gzFile file, char *buf, int len));
/*
   Reads bytes from the compressed file until len-1 characters are read, or a newline character is read and transferred to buf, or an end-of-file condition is encountered.  If any characters are read or if len == 1, the string is terminated with a null character.  If no characters are read due to an end-of-file or len < 1, then the buffer is left untouched.

   gzgets returns buf which is a null-terminated string, or it returns NULL for end-of-file or in case of error.  If there was an error, the contents at buf are indeterminate.
*/

ZEXTERN int ZEXPORT gzputc OF((gzFile file, int c));
/*
   Writes c, converted to an unsigned char, into the compressed file.  gzputc returns the value that was written, or -1 in case of error.
*/

ZEXTERN int ZEXPORT gzgetc OF((gzFile file));
/*
   Reads one byte from the compressed file.  gzgetc returns this byte or -1 in case of end of file or error.  This is implemented as a macro for speed.  As such, it does not do all of the checking the other functions do.  I.e., it does not check to see if file is NULL, nor whether the structure file points to has been clobbered or not.
ZEXTERN int ZEXPORT gzungetc((int c, gzFile file));
/*
   Push one character back onto the stream to be read as the first character
   on the next read. At least one character of push-back is allowed.
   gzungetc() returns the character pushed, or -1 on failure. gzungetc() will
   fail if c is -1, and may fail if a character has been pushed but not read
   yet. If gzungetc is used immediately after gzopen or gzdopen, at least the
   output buffer size of pushed characters is allowed. (See gzbuffer above.)
   The pushed character will be discarded if the stream is repositioned with
   gzseek() or gzrewind().
*/

ZEXTERN int ZEXPORT gzflush((gzFile file, int flush));
/*
   Flushes all pending output into the compressed file. The parameter flush
   is as in the deflate() function. The return value is the zlib error number
   (see function gzerror below). gzflush is only permitted when writing.

   If the flush parameter is Z_FINISH, the remaining data is written and the
   gzip stream is completed in the output. If gzwrite() is called again, a new
   gzip stream will be started in the output. gzread() is able to read such
   concatenated gzip streams.

   gzflush should be called only when strictly necessary because it will
   degrade compression if called too often.
*/

/*
ZEXTERN z_off_t ZEXPORT gzseek((gzFile file,
   z_off_t offset, int whence));

   Sets the starting position for the next gzread or gzwrite on the given
   compressed file. The offset represents a number of bytes in the
   uncompressed data stream. The whence parameter is defined as in lseek(2);
   the value SEEK_END is not supported.

   If the file is opened for reading, this function is emulated but can be
   extremely slow. If the file is opened for writing, only forward seeks are
   supported; gzseek then compresses a sequence of zeroes up to the new
   starting position.

   gzseek returns the resulting offset location as measured in bytes from
   the beginning of the uncompressed stream, or -1 in case of error, in
   particular if the file is opened for writing and the new starting position
   would be before the current position.
*/
ZEXTERN int ZEXPORT  gzrewind OF((gzFile file));
/*
 Rewinds the given file. This function is supported only for reading.

    gzrewind(file) is equivalent to (int)gzseek(file, 0L, SEEK_SET)
 */
/
/*
ZEXTERN z_off_t ZEXPORT  gztell OF((gzFile file));

 Returns the starting position for the next gzread or gzwrite on the given compressed file. This position represents a number of bytes in the uncompressed data stream, and is zero when starting, even if appending or reading a gzip stream from the middle of a file using gzdopen().

    gztell(file) is equivalent to gzseek(file, 0L, SEEK_CUR)
 */
/
/*
ZEXTERN z_off_t ZEXPORT gzoffset OF((gzFile file));

 Returns the current offset in the file being read or written. This offset includes the count of bytes that precede the gzip stream, for example when appending or when using gzdopen() for reading. When reading, the offset does not include as yet unused buffered input. This information can be used for a progress indicator. On error, gzoffset() returns -1.
 */
/
ZEXTERN int ZEXPORT  gzeof OF((gzFile file));
/*
 Returns true (1) if the end-of-file indicator has been set while reading, false (0) otherwise. Note that the end-of-file indicator is set only if the read tried to go past the end of the input, but came up short. Therefore, just like feof(), gzeof() may return false even if there is no more data to read, in the event that the last read request was for the exact number of bytes remaining in the input file. This will happen if the input file size is an exact multiple of the buffer size.

 If gzeof() returns true, then the read functions will return no more data, unless the end-of-file indicator is reset by gzclearerr() and the input file has grown since the previous end of file was detected.
 */
/
ZEXTERN int ZEXPORT  gzdirect OF((gzFile file));
/*
 Returns true (1) if file is being copied directly while reading, or false (0) if file is a gzip stream being decompressed.
 */
If the input file is empty, gzdirect() will return true, since the input does not contain a gzip stream.

If gzdirect() is used immediately after gzopen() or gzdopen() it will cause buffers to be allocated to allow reading the file to determine if it is a gzip file. Therefore if gzbuffer() is used, it should be called before gzdirect().

When writing, gzdirect() returns true (1) if transparent writing was requested ("wT" for the gzopen() mode), or false (0) otherwise. (Note: gzdirect() is not needed when writing. Transparent writing must be explicitly requested, so the application already knows the answer. When linking statically, using gzdirect() will include all of the zlib code for gzip file reading and decompression, which may not be desired.)

ZEXTERN int ZEXPORT gzclose OF((gzFile file));
/*
Flushes all pending output if necessary, closes the compressed file and deallocates the (de)compression state. Note that once file is closed, you cannot call gzerror with file, since its structures have been deallocated. gzclose must not be called more than once on the same file, just as free must not be called more than once on the same allocation.

gzclose will return Z_STREAM_ERROR if file is not valid, Z_ERRNO on a file operation error, Z_MEM_ERROR if out of memory, Z_BUF_ERROR if the last read ended in the middle of a gzip stream, or Z_OK on success.
*/

ZEXTERN int ZEXPORT gzclose_r OF((gzFile file));
ZEXTERN int ZEXPORT gzclose_w OF((gzFile file));
/*
Same as gzclose(), but gzclose_r() is only for use when reading, and gzclose_w() is only for use when writing or appending. The advantage to using these instead of gzclose() is that they avoid linking in zlib compression or decompression code that is not used when only reading or only writing respectively. If gzclose() is used, then both compression and decompression code will be included the application when linking to a static zlib library.
*/

ZEXTERN const char * ZEXPORT gzerror OF((gzFile file, int *errnum));
/*
Returns the error message for the last error which occurred on the given compressed file. errnum is set to zlib error number. If an error occurred in the file system and not in the compression library, errnum is set to Z_ERRNO and the application may consult errno to get the exact error code.
The application must not modify the returned string. Future calls to this function may invalidate the previously returned string. If file is closed, then the string previously returned by gzerror will no longer be available.

.gzerror() should be used to distinguish errors from end-of-file for those functions above that do not distinguish those cases in their return values.

ZEXTERN void ZEXPORT gzclearerr OF((gzFile file));

Clears the error and end-of-file flags for file. This is analogous to the clearerr() function in stdio. This is useful for continuing to read a gzip file that is being written concurrently.

/* checksum functions */

These functions are not related to compression but are exported anyway because they might be useful in applications using the compression library.

ZEXTERN uLong ZEXPORT adler32 OF((uLong adler, const Bytef *buf, uInt len));

Update a running Adler-32 checksum with the bytes buf[0..len-1] and return the updated checksum. If buf is Z_NULL, this function returns the required initial value for the checksum.

An Adler-32 checksum is almost as reliable as a CRC32 but can be computed much faster.

Usage example:

uLong adler = adler32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    adler = adler32(adler, buffer, length);
} 
if (adler != original_adler) error();

ZEXTERN uLong ZEXPORT adler32_combine OF((uLong adler1, uLong adler2,
Combine two Adler-32 checksums into one. For two sequences of bytes, seq1 and seq2 with lengths len1 and len2, Adler-32 checksums were calculated for each, adler1 and adler2. adler32_combine() returns the Adler-32 checksum of seq1 and seq2 concatenated, requiring only adler1, adler2, and len2. Note that the z_off_t type (like off_t) is a signed integer. If len2 is negative, the result has no meaning or utility.

Combine two CRC-32 check values into one. For two sequences of bytes, seq1 and seq2 with lengths len1 and len2, CRC-32 check values were calculated for each, crc1 and crc2. crc32_combine() returns the CRC-32 check value of seq1 and seq2 concatenated, requiring only crc1, crc2, and len2.

Usage example:

```c
uLong crc = crc32(0L, Z_NULL, 0);

while (read_buffer(buffer, length) != EOF) {
    crc = crc32(crc, buffer, length);
}
if (crc != original_crc) error();
```

/*

/* various hacks, don't look :) */

/* deflateInit and inflateInit are macros to allow checking the zlib version
 * and the compiler's view of z_stream:
 */

ZEXTERN int ZEXPORT deflateInit_ OF((z_streamp strm, int level,
const char *version, int stream_size));
ZEXTERN int ZEXPORT inflateInit_ OF((z_streamp strm,
const char *version, int stream_size));
ZEXTERN int ZEXPORT deflateInit2_ OF((z_streamp strm, int level, int method,
int windowBits, int memLevel,
int strategy, const char *version,
int stream_size));

ZEXTERN int ZEXPORT inflateInit2_ OF((z_streamp strm, int windowBits,
const char *version, int stream_size));

ZEXTERN int ZEXPORT inflateBackInit_ OF((z_streamp strm, int windowBits,
unsigned char FAR *window,
const char *version,
int stream_size));

#define deflateInit((strm, level) 
deflateInit_((strm), (level), ZLIB_VERSION, (int)sizeof(z_stream))
#define inflateInit((strm) 
inflateInit_((strm), ZLIB_VERSION, (int)sizeof(z_stream))
#define deflateInit2((strm, level, method, windowBits, memLevel, strategy) 
deflateInit2_((strm),(level),(method),(windowBits),(memLevel),
(strategy), ZLIB_VERSION, (int)sizeof(z_stream))
#define inflateInit2((strm, windowBits) 
inflateInit2_((strm), (windowBits), ZLIB_VERSION, 
(int)sizeof(z_stream))
#define inflateBackInit((strm, windowBits, window) 
inflateBackInit_((strm), (windowBits), (window), 
ZLIB_VERSION, (int)sizeof(z_stream))

#ifndef Z_SOLO

/* gzgetc() macro and its supporting function and exposed data structure. Note
* that the real internal state is much larger than the exposed structure.
* This abbreviated structure exposes just enough for the gzgetc() macro. The
* user should not mess with these exposed elements, since their names or
* behavior could change in the future, perhaps even capriciously. They can
* only be used by the gzgetc() macro. You have been warned.
*/

struct gzFile_s {
  unsigned have;
  unsigned char *next;
  z_off64_t pos;
};
ZEXTERN int ZEXPORT gzgetc_ OF((gzFile file));
#define gzgetc(g) 
  ((g)->have ? ((g)->have--, (g)->pos++, *((g)->next)++) : gzgetc_(g))

/* provide 64-bit offset functions if _LARGEFILE64_SOURCE defined, and/or
* change the regular functions to 64 bits if _FILE_OFFSET_BITS is 64 (if
* both are true, the application gets the *64 functions, and the regular
* functions are changed to 64 bits) -- in case these are set on systems
* without large file support, _LFS64_LARGEFILE must also be true
*/
#if defined(_LARGEFILE64_SOURCE) && _LFS64_LARGEFILE-0
ZEXTERN gzFile ZEXPORT gzopen64 OF((const char *, const char *));
ZEXTERN z_off64_t ZEXPORT gzseek64 OF((gzFile, z_off64_t, int));
ZEXTERN z_off64_t ZEXPORT gztell64 OF((gzFile));
ZEXTERN uLong ZEXPORT gzoffset64 OF((gzFile));
ZEXTERN uLong ZIMPORT adler32_combine64 OF((uLong, uLong, z_off64_t));
ZEXTERN uLong ZIMPORT crc32_combine64 OF((uLong, uLong, z_off64_t));
#endif

#if !defined(ZLIB_INTERNAL) && _FILE_OFFSET_BITS-0 == 64 && _LFS64_LARGEFILE-0
#else /* Z_SOLO */
ZEXTERN uLong ZIMPORT adler32_combine OF((uLong, uLong, z_off_t));
ZEXTERN uLong ZIMPORT crc32_combine OF((uLong, uLong, z_off_t));
#endif /* !Z_SOLO */
/* hack for buggy compilers */
#if !defined(ZUTIL_H) && !defined(NO_DUMMY_DECL)
    struct internal_state { int dummy; };
#endif

/* undocumented functions */
ZEXTERN const char   * ZEXPORT zError OF((int));
ZEXTERN int            ZEXPORT inflateSyncPoint OF((z_streamp));
ZEXTERN const uLongf * ZEXPORT get_crc_table OF((void));
ZEXTERN int            ZEXPORT inflateUndermine OF((z_streamp, int));
ZEXTERN int            ZEXPORT inflateResetKeep OF((z_streamp));
ZEXTERN int            ZEXPORT deflateResetKeep OF((z_streamp));
#ifndef Z_SOLO
ZEXTERN unsigned long  ZEXPORT gzflags OF((void));
#endif

#ifndef __cplusplus

#endif /* ZLIB_H */

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