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Maintainer: Colin Watson <cjwatson@debian.org>
Files: update-passwd.c, man/*
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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
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1.4 bash 3.2.48

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<one line to give the program's name and a brief idea of what it does.>
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    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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Public License instead of this License.

1.5 bison 2.7.1
1.5.1 Available under license:

#!/usr/bin/perl -0777 -pi

# Update b4_copyright invocations or b4_copyright_years definitions to include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}

my $old_re = <<'EOF'

(?::[^n])

#BEFORE
(?:
  b4_copyright\n([^[]])*\n  m4_(?::push|pop)\n([^\[b4_copyright_years]*\n))

#AFTER
)

(\s* (?:\d\{4\}\s*|-)*)

EOF

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
    $this_year = $year + 1900;
}

my $old_re = <<'EOF'

(?::[^n])

#BEFORE
(?:
  b4_copyright\n([^[]])*\n  m4_(?::push|pop)\n([^\[b4_copyright_years]*\n))

#AFTER
)

(\s* (?:\d\{4\}\s*|-)*)

EOF
while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');

    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ';
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year, $this_year/;
        }
    }

    # Normalize all whitespace.
    $year_lines =~ s/$/ \s+/g;

    # Put spaces after commas.
    $year_lines =~ s/, \?/ /g;

    # Compress to intervals.
    $year_lines =~ s/
        \d{4}
        (?:
            (, |-)
            ((??:
                if ( $2 eq '-' ) { \d{4}; } )
            elsif (!$3)   { $1 + 1;  } )
            else          { $3 + 1;  } )
        )+
    /$1-$3/gx;

    # Format within margin.
    my $year_lines_new;
    my $indent = index ($b4_copyright_line, '\[');
    --$indent if ($b4_copyright_line =~ m/\w/);
    while (length $year_lines)
my $text_margin = $margin - $indent;
if ((\$year_lines =~ s/^\n\s\s(.+\.$text_margin)\n\s\s//)
  || (\$year_lines =~ s/\n\s\S\s(?=\n\s\s)/))
{
  my $line = "$\n\n" . ("\n\s\s") . $1;
  ++$indent if (!$year_lines_new);
  $year_lines_new .= $line;
}
else
{
  # Should be unreachable, but we don't want an infinite
  # loop if it can be reached.
  die;
}

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length("$b4_copyright_line$year_lines_new");
}
}

while (/(\bb4_copyright\])/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = Sold_re;
  pos () = $start;
  $re =~ s/#BEFORE/#G/;
  if (!/$re/x)
  {
    my $line = (substr ($_, 0, $start) =~ s/\n\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a b4_copyright\n";
  }
  pos () = $end;
}

while (/(\bb4_copyright_years\])/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = Sold_re;
  $re =~ s/#AFTER/#G/;
  if (!/$re/x)
# The substr operation blows away pos (), so restoring pos ()
# at the end is necessary.
my $line = (substr ($_, 0, $start) =~ s/
/
/g) + 1;
print STDERR
 "$ARGV:$line: warning: failed to update a" . 
 . b4_copyright_years\n";
}
pos () = $end;
}
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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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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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c-ares
========

This is c-ares, an asynchronous resolver library. It is intended for
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The full source code is available in the 'c-ares' release archives, and in a
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* The distributed ares_build.h file is only intended to be used on systems which can not run the also distributed configure script.

* The distributed ares_build.h file is generated as a copy of ares_build.h.dist when the c-ares source code distribution archive file is originally created.

* If you check out from git on a non-configure platform, you must run the appropriate buildconf* script to set up ares_build.h and other local files before being able of compiling the library.

* On systems capable of running the configure script, the configure process will overwrite the distributed ares_build.h file with one that is suitable and specific to the library being configured and built, this new file is generated from the ares_build.h.in template file.

* If you intend to distribute an already compiled c-ares library you _MUST_ also distribute along with it the generated ares_build.h which has been used to compile it. Otherwise the library will be of no use for the users of the library that you have built. It is _your_ responsibility to provide this file. No one at the c-ares project can know how you have built the library.

* File ares_build.h includes platform and configuration dependent info, and must not be modified by anyone. Configure script generates it for you.

* We cannot assume anything else but very basic compiler features being present. While c-ares requires an ANSI C compiler to build, some of the earlier ANSI compilers clearly can't deal with some preprocessor operators.

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 *
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1.11 coreutils 6.9
1.11.1 Available under license :

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<signature of Ty Coon>, 1 April 1989
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1.12 cracklib 2.9.1-r0
1.12.1 Available under license:

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

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

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

Attachments: Message as HTML
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.

-- Nathan

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
>
> 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

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =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

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> 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
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> 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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gm...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
> I am sympathetic. Guys, what do you reckon?
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....
> My apologies for not chiming in in anything resembling a reasonable
timeframe.
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> > In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> 
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now?
>
> yes. go for it. thanks++

- a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now?
> >
> > yes. go for it. thanks++

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

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

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.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 l91Gxptp020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floated
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE86E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
> > -------- Forwarded message --------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
> 
> The license for my code in the Cracklib distribution is henceforth GPL.
> 
> Happy now? :-)
>
> -a

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Version 2.1, February 1999

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    Claudio Ciccani <klan@users.sf.net>.

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*/

1.23 dropbear 2014.63 :19 February 2014
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 *
 * curve25519-donna: Curve25519 elliptic curve, public key function
 *
 * http://code.google.com/p/curve25519-donna/
 *
 * Adam Langley <agl@imperialviolet.org>
 *
 * Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
 *
 * More information about curve25519 can be found here
 * http://cr.yp.to/ecdh.html
 *
 * djb's sample implementation of curve25519 is written in a special assembly
 * language called qhasm and uses the floating point registers.
This is, almost, a clean room reimplementation from the curve25519 paper. It uses many of the tricks described therein. Only the recip function is taken from the sample implementation.

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1.24 e2fsprogs 1.42.9
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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-?
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Gadi Oxman, August 1995

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Theodore Ts'o
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Specifically, the GPL parts of FFmpeg are
- libpostproc
- optional x86 optimizations in the files
  libavcodec/x86/idct_mmx.c
- the X11 grabber in libavdevice/x11grab.c

There are a handful of files under other licensing terms, namely:

* The files libavcodec/jfdctfst.c, libavcodec/jfdctint.c, libavcodec/jrevdct.c
  are taken from libjpeg, see the top of the files for licensing details.

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for you. Read the file COPYING.LGPLv3 or, if you have enabled GPL parts,
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external libraries:
-------------------

Some external libraries, e.g. libx264, are under GPL and can be used in
conjunction with FFmpeg. They require --enable-gpl to be passed to configure
as well.

The OpenCORE external libraries are under the Apache License 2.0. That license
is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of
those licenses. So to combine the OpenCORE libraries with FFmpeg, the license
version needs to be upgraded by passing --enable-version3 to configure.

The nonfree external libraries libfaac and libaacplus can be hooked up in FFmpeg.
You need to pass --enable-nonfree to configure to enable it. Employ this option
with care as FFmpeg then becomes nonfree and unredistributable.

1.30 findutils 4.2.31
:c0c8b511cde0419ebb6984250b7f4870

1.30.1 Available under license :

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1.31 flex 2.5.38

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1.33 fontconfig 2.11.0

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*/

#include "fcint.h"
#include "fcftint.h"
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <ft2build.h>
#include FT_FREETYPE_H
#include FT_SFNT_NAMES_H
#include FT_TRUETYPE_IDS_H
#include FT_TRUETYPE_TABLES_H
#include FT_TYPE1_TABLES_H
#if HAVE_FT_GET_X11_FONT_FORMAT
#include FT_XFREE86_H
#endif
#if HAVE_FT_GET_BDF_PROPERTY
#include FT_BDF_H
#include FT_MODULE_H
#endif

#include "ftglue.h"

#if HAVE_WARNING_CPP_DIRECTIVE
#if !HAVE_FT_GET_BDF_PROPERTY
#warning "No FT_Get_BDF_Property: Please install freetype 2.1.4 or later"
#endif
#endif

#if !HAVE_FT_GET_PS_FONT_INFO
#warning "No FT_Get_PS_Font_Info: Please install freetype 2.1.1 or later"
#endif

/*
* Keep Han languages separated by eliminating languages
* that the codePageRange bits says aren't supported
*/

static const struct {
    char    bit;
    const FcChar8   lang[6];
} FcCodePageRange[] = {

{ 17,"ja" },
{ 18,"zh-cn" },
{ 19,"ko" },
{ 20,"zh-tw" },
};

#define NUM_CODE_PAGE_RANGE (int) (sizeof FcCodePageRange / sizeof FcCodePageRange[0])

FcBool
FcFreeTypeIsExclusiveLang (const FcChar8 *lang)
{
    int i;

    for (i = 0; i < NUM_CODE_PAGE_RANGE; i++)
    {
        if (FcLangCompare (lang, FcCodePageRange[i].lang) == FcLangEqual)
            return FcTrue;
    }
    return FcFalse;
}

typedef struct {
    const FT_UShort platform_id;
    const FT_UShort encoding_id;
    const char fromcode[12];
} FcFtEncoding;

#define TT_ENCODING_DONT_CARE 0xffff
#define FC_ENCODING_MAC_ROMAN "MACINTOSH"

static const FcFtEncoding fcFtEncoding[] = {
    {  TT_PLATFORM_APPLE_UNICODE,TT_ENCODING_DONT_CARE,"UTF-16BE" },
    {  TT_PLATFORM_MACINTOSH,TT_MAC_ID_ROMAN,"MACINTOSH" },
    {  TT_PLATFORM_MACINTOSH,TT_MAC_ID_JAPANESE,"SJIS" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_SYMBOL_CS,"UTF-16BE" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_UNICODE_CS,"UTF-16BE" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_SJIS,"SJIS-WIN" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_GB2312,"GB2312" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_BIG_5,"BIG-5" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_WANSUNG,"Wansung" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_JOHAB,"Johab" },
    {  TT_PLATFORM_MICROSOFT,TT_MS_ID_UCS_4,"UTF-16BE" },
    {  TT_PLATFORM_ISO,TT_ISO_ID_7BIT_ASCII,"ASCII" },
    {  TT_PLATFORM_ISO,TT_ISO_ID_10646,"UTF-16BE" },
    {  TT_PLATFORM_ISO,TT_ISO_ID_8859_1,"ISO-8859-1" },
};

#define NUM_FC_FT_ENCODING (int) (sizeof (fcFtEncoding) / sizeof (fcFtEncoding[0]))
typedef struct {
    const FT_UShort platform_id;
    const FT_UShort language_id;
    const char lang[8];
} FcFtLanguage;

#define TT_LANGUAGE_DONT_CARE 0xffff

static const FcFtLanguage fcFtLanguage[] = {
    { TT_PLATFORM_APPLE_UNICODE, TT_LANGUAGE_DONT_CARE, "" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ENGLISH, "en" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FRENCH, "fr" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GERMAN, "de" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ITALIAN, "it" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_DUTCH, "nl" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SWEDISH, "sv" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SPANISH, "es" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_DANISH, "da" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_PORTUGUESE, "pt" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_NORWEGIAN, "no" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_HEBREW, "he" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_JAPANESE, "ja" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ARABIC, "ar" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FINNISH, "fi" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GREEK, "el" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ICELANDIC, "is" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MALTESE, "mt" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TURKISH, "tr" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CROATIAN, "hr" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CHINESE_TRADITIONAL, "zh-tw" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_URDU, "ur" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_HINDI, "hi" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_THAI, "th" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KOREAN, "ko" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_LITHUANIAN, "lt" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_POLISH, "pl" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_HUNGARIAN, "hu" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ESTONIAN, "et" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_LETTISH, "lv" },
    /* { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SAAMISK, ??? */
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FAROESE, "fo" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FARSI, "fa" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_RUSSIAN, "ru" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CHINESE_SIMPLIFIED, "zh-cn" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FLEMISH, "nl" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_IRISH, "ga" },
    { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ALBANIAN, "sq" },
}
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ROMANIAN, "ro"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CZECH, "cs"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SLOVAK, "sk"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SLOVENIAN, "sl"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_YIDDISH, "yi"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SERBIAN, "sr"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MACEDONIAN, "mk"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BULGARIAN, "bg"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_UKRAINIAN, "uk"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BYELORUSSIAN, "be"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_UZBEK, "uz"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KAZAKH, "kk"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI, "az"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI_CYRILLIC_SCRIPT, "az"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI_ARABIC_SCRIPT, "az"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ARmenian, "hy"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GEORGIAN, "ka"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MOLdAVIAN, "mo"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KIRghiz, "ky"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TAjiki, "tg"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Turkmen, "tk"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MONGolian, "mo"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MONGolian_MONGolian_SCRIPT, "mo"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MONGolian_CYRILLIC_SCRIPT, "mo"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Pashto, "ps"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Kurdish, "ku"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KashmirI, "ks"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Sindhi, "sd"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Tibetan, "bo"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Nepali, "ne"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Sanskrit, "sa"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Marathi, "mr"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Bengali, "bn"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Assamese, "as"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GujaratI, "gu"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Punjabi, "pa"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Oriya, "or"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Malayalam, "ml"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Kannada, "kn"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Tamil, "ta"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Telugu, "te"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Sinhalese, "si"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Burmese, "my"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Khmer, "km"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Lao, "lo"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Vietnamese, "vi"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Indonesian, "id"],
[TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_Tagalog, "tl"].
/* The following codes are new as of 2000-03-10 */
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SCOTTISH_GAELIC },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_IRISH_GAELIC },

#if 0 /* these seem to be errors that have been dropped */
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SCOTTISH_GAELIC },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_IRISH_GAELIC },
#endif
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_PANAMA,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_DOMINICAN_REPUBLIC,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_VENEZUELA,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_COLOMBIA,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_PERU,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_ARGENTINA,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_ECUALDOR,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_CHILE,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH URUGUAY,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_PARAGUAY,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_BOLIVIA,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_EL_SALVADOR,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_HONDURAS,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_NICARAGUA,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSPANISH_PUERTO_RICO,"es" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFINNISH_FINLAND,"fi" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFRENCH_FRANCE,"fr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFRENCH_BELGIUM,"fr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFRENCH_CANADA,"fr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFRENCH_SWITZERLAND,"fr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFRENCH_LUXEMBOURG,"fr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDFRENCH_MONACO,"fr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDHEBREW_ISRAEL,"he" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDHUNGARIAN_HUNGARY,"hu" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDICELANDIC_ICELAND,"is" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDITALIAN_ITALY,"it" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDITALIAN_SWITZERLAND,"it" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDJAPANESE_JAPAN,"ja" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDKOREAN_EXTENDED_WANSUNG_KOREA,"ko" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDKOREAN_JOHAB_KOREA,"ko" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDTHUIGHLANDS,"nl" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDDUTCH_BELGIUM,"nl" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDNORWEGIAN_NORWAY_BOKMAL,"no" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDNORWEGIAN_NORWAY_NYNORSK,"nn" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDPOLISH_POLAND,"pl" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDPORTUGUESE_BRAZIL,"pt" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDPORTUGUESE_PORTUGAL,"pt" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDRHAETO_ROMANIC_SWITZERLAND,"rm" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDROMANIAN_ROMANIA,"ro" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDMOLDAVIAN_MOLDAVIA,"mo" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDRUSSIAN_RUSSIA,"ru" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDRUSSIAN_MOLDAVIA,"ru" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDCROATIAN_CROATIA,"hr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSERBIAN_SERBIA_LATIN,"sr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSERBIAN_SERBIA_CYRILLIC,"sr" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSLOVAK_SLOVAKIA,"sk" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDALBANIAN_ALBANIA,"sq" },
{ TTPLATFORMMICROSOFT,TTMSLANGIDSWEDISH_SWEDEN,"sv" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SWEDISH_FINLAND, "sv" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_THAI_THAILAND, "th" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TURKISH_TURKEY, "tr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_URDU_PAKISTAN, "ur" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_INDONESIAN_INDONESIA, "id" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_UKRAINIAN_UKRAINE, "uk" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_BELARUSIAN_BELARUS, "be" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SLOVENE_SLOVENIA, "sl" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ESTONIAN_ESTONIA, "et" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_LATVIAN_LATVIA, "lv" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_LITHUANIAN_LITHUANIA, "lt" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MAORI_NEW_ZEALAND, "mi" },

#ifdef TT_MS_LANGID_MAORI_NEW_ZEALAND
 /* this seems to be an error that have been dropped */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MAORI_NEW_ZEALAND, "mi" },
#endif

{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FARSI_IRAN, "fa" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_VIETNAMESE_VIET_NAM, "vi" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ARmenian_Armenia, "hy" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_AZERI_AZERBAIJAN_LATIN, "az" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_AZERI_AZERBAIJAN_CYRILLIC, "az" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_BASQUE_SPAIN, "eu" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SORBIAN_GERMANY, "wen" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MACEDONIAN_MACEDONIA, "mk" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SUTU_SOUTH_AFRICA, "st" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TSONGA_SOUTH_AFRICA, "ts" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TSWANA_SOUTH_AFRICA, "tn" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_VENDA_SOUTH_AFRICA, "ven" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_XHOSA_SOUTH_AFRICA, "xh" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ZULU_SOUTH_AFRICA, "zu" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_AFRIKAANS_SOUTH_AFRICA, "af" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_GEORGIAN_GEORGIA, "ka" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FAEROESE_FAEROE_ISLANDS, "fo" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_HINDI_INDIA, "hi" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MALAY_INDONESIA, "ms" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_UZBEK_UZBEKISTAN_LATIN, "uz" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_UZBEK_UZBEKISTAN_CYRILLIC, "uz" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SCOTTISH_GAELIC_UNITED KINGDOM, "gd" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_IRISH_GAELIC_IRELAND, "ga" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MALAY_MALAYSIA, "ms" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MALAY_BRUNEI_DARUSSALAM, "ms" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KAZAK_KAZAKSTAN, "kk" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SWAHILI_KENYA, "sw" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_UZBEK_UZBEKISTAN_LATIN, "uz" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_UZBEK_UZBEKISTAN_CYRILLIC, "uz" },
/* new as of 2001-01-01 */
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_GENERAL,"ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CHINESE_GENERAL,"zh" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_GENERAL,"en" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_WEST_INDIES,"fr" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_REUNION,"fr" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_CONGO,"fr" },

{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_SENEGAL,"fr" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_CAMEROON,"fr" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_COTE_D_IVOIRE,"fr" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_MALI,"fr" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_BOSNIAN_BOSNIA_HERZEGOVINA,"bs" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_UKRANIAN_UKRAN","uk" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_TAJIK_TAJIKISTAN,"tg" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_YIDDISH_GERMANY,"yi" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_KIRGHIZ_KIRGHIZSTAN,"ky" },

{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_TURKMEN_TURKMENISTAN,"tk" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_MONGOLIAN_MONGOLIA,"mn" },

/* the following seems to be inconsistent; */
here is the current "official" way: */
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_TIBETAN_BHUTAN,"bo" },
/* and here is what is used by Passport SDK */
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_TIBETAN_CHINA,"bo" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_DZONGHKA_BHUTAN,"dz" },
/* end of inconsistency */

{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_WELSH_WALES,"cy" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_KHMERNH_CAMBODIA,"km" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_LAO_LAOS,"lo" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_BURMESE_MYANMAR,"my" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GALICIAN_SPAIN,"gl" },
/* the following one is only encountered in Microsoft RTF specification */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KASHMIRI_PAKISTAN,"ks" },
/* the following one is not in the Passport list, looks like an omission */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KASHMIRI_INDIA,"ks" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_NEPALI_NEPAL,"ne" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_NEPALI_INDIA,"ne" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FRISIAN_NETHERLANDS,"fy" },
/* new as of 2001-03-01 (from Office Xp) */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_HONG_KONG,"en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_INDIA,"en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_MALAYSIA,"en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_SINGAPORE,"en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SYRIAC_SYRIA,"syr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SINHALESE_SRI_LANKA,"si" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_CHEROKEE_UNITED_STATES,"chr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_PASHTO_AFGHANISTAN,"ps" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FILIPINO_PHILIPPINES,"phi" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_DHIVEHI_MALDIVES,"div" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_OROMO_ETHIOPIA,"om" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TIGRIGNA_ETHIOPIA,"ti" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TIGRIGNA_ERYTHREA,"ti" },
/* New additions from Windows Xp/Passport SDK 2001-11-10. */
/* don't ask what this one means... It is commented out currently. */
#endif
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_GREEK_GREECE2 },
#endif
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SPANISH_UNITED_STATES,"es" },
/* The following two IDs blatantly violate MS specs by using a */
/* sublanguage >,. */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SPANISH_LATIN_AMERICA,"es" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FRENCH_NORTH_AFRICA,"fr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FRENCH_MOROCCO,"fr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FRENCH_HAITI,"fr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_BENGALI_BANGLADESH,"bn" },
#define NUM_FC_FT_LANGUAGE (int) (sizeof (fcFtLanguage) / sizeof (fcFtLanguage[0]))

typedef struct {
    FT_UShort language_id;
    char fromcode[12];
} FcMacRomanFake;

static const FcMacRomanFake fcMacRomanFake[] = {
    { TT_MS_LANGID_JAPANESE_JAPAN, "SJIS-WIN" },
    { TT_MS_LANGID_ENGLISH_UNITED_STATES, "ASCII" },
};

static FcChar8 *
FcFontCapabilities(FT_Face face);

#define NUM_FC_MAC_ROMAN_FAKE (int) (sizeof (fcMacRomanFake) / sizeof (fcMacRomanFake[0]))

#if USE_ICONV
#include <iconv.h>
#endif

/*
 * A shift-JIS will have many high bits turned on
*/
static FcBool
FcLooksLikeSJIS (FcChar8 *string, int len)
{
    int nhigh = 0, nlow = 0;

    while (len-- > 0)
    {
        if (*string++ & 0x80) nhigh++;
        else nlow++;
    }

    /*
    * Heuristic -- if more than 1/3 of the bytes have the high-bit set,
    * this is likely to be SJIS and not ROMAN
    */
    if (nhigh * 2 > nlow)
        return FcTrue;
    return FcFalse;
}

static FcChar8 *
FcSfntNameTranscode (FT_SfntName *sname)
{
    int i;
    const char *fromcode;
#if USE_ICONV
    iconv_t cd;
#endif
    FcChar8 *utf8;

    for (i = 0; i < NUM_FC_FT_ENCODING; i++)
        if (fcFtEncoding[i].platform_id == sname->platform_id &&
            (fcFtEncoding[i].encoding_id == TT_ENCODING_DONT_CARE ||
            fcFtEncoding[i].encoding_id == sname->encoding_id))
            break;
    if (i == NUM_FC_FT_ENCODING)
        return 0;
    fromcode = fcFtEncoding[i].fromcode;
#if USE_ICONV
    cd = iconv_open(NULL, fromcode);
    utf8 = (FcChar8 *)iconv(cd, (char **)NULL, (FcChar8 *)sname->string, (size_t)sname->string_len);
    iconv_close(cd);
#else
    utf8 = (FcChar8 *)sname->string;
#endif

    /*
    * Many names encoded for TT_PLATFORM_MACINTOSH are broken
    * in various ways. Kludge around them.
    */
    if (!strcmp (fromcode, FC_ENCODING_MAC_ROMAN))
    {
        if (sname->language_id == TT_MAC_LANGID_ENGLISH &&
            FcLooksLikeSJIS (sname->string, sname->string_len))
        {

fromcode = "SJIS";
}
else if (sname->language_id >= 0x100)
{
    /*
    * "real" Mac language IDs are all less than 150.
    * Names using one of the MS language IDs are assumed
    * to use an associated encoding (Yes, this is a kludge)
    */
    int f;
    fromcode = NULL;
    for (f = 0; f < NUM_FC_MAC_ROMAN_FAKE; f++)
        if (fcMacRomanFake[f].language_id == sname->language_id)
            fromcode = fcMacRomanFake[f].fromcode;
        break;

    if (!fromcode)
        return 0;
}

if (!strcmp (fromcode, "UCS-2BE") || !strcmp (fromcode, "UTF-16BE"))
{
    FcChar8 *src = sname->string;
    int src_len = sname->string_len;
    int len;
    int wchar;
    int ilen, olen;
    FcChar8 *u8;
    FcChar32 ucs4;

    /*
    * Convert Utf16 to Utf8
    */
    if (!FcUtf16Len (src, FcEndianBig, src_len, &len, &wchar))
        return 0;

    /*
    * Allocate plenty of space. Freed below
    */
    utf8 = malloc (len * FC_UTF8_MAX_LEN + 1);
    if (!utf8)
        return 0;

    u8 = utf8;
while ((ilen = FcUtf16ToUcs4 (src, FcEndianBig, &ucs4, src_len)) > 0) {
    src_len -= ilen;
    src += ilen;
    olen = FcUcs4ToUtf8 (ucs4, u8);
    u8 += olen;
}  
    *u8 = '\0';
    goto done;
}
    if (!strcmp (fromcode, "ASCII") && !strcmp (fromcode, "ISO-8859-1")) {
    FcChar8  *src = sname->string;
    int    src_len = sname->string_len;
    int    olen;
    FcChar8  *u8;
    FcChar32 ucs4;

    /*
     * Convert Latin1 to Utf8. Freed below
     */
    utf8 = malloc (src_len * 2 + 1);
    if (!utf8)
        return 0;
    u8 = utf8;
    while (src_len > 0) {
        ucs4 = *src++;
        src_len--;
        olen = FcUcs4ToUtf8 (ucs4, u8);
        u8 += olen;
    }  
    *u8 = '\0';
    goto done;
}  
#if USE.Iconv
    cd = iconv_open ("UTF-8", fromcode);
    if (cd && cd != (iconv_t) (-1)) {
        size_t    in_bytes_left = sname->string_len;
        size_t    out_bytes_left = sname->string_len * FCUTF8_MAX_LEN;
        char    *inbuf, *outbuf;

        utf8 = malloc (out_bytes_left + 1);
        if (!utf8)
            {  
                iconv_close (cd);
            }  
        else  
            {
                outbuf = utf8;
                size_t    in_bytes = sname->string_len;
                size_t    out_bytes = out_bytes_left;
                for (size_t i = 0; i < in_bytes; i++)
                    {
                        ucs4 = *src++;
                        src_len--;
                        olen = FcUcs4ToUtf8 (ucs4, u8);
                        u8 += olen;
                    }  
                *u8 = '\0';
                goto done;
            }
        iconv_close (cd);
    }  
#endif
return 0;
}

outbuf = (char *) utf8;
inbuf = (char *) sname->string;

while (in_bytes_left)
{
    size_t did = iconv (cd, &inbuf, &in_bytes_left,
                      &outbuf, &out_bytes_left);
    if (did == (size_t) (-1))
    {
        iconv_close (cd);
        free (utf8);
        return 0;
    }
}

iconv_close (cd);
*outbuf = '\0';
goto done;

#ifendif

return 0;

done:

if (FcStrCmpIgnoreBlanksAndCase (utf8, (FcChar8 *) "") == 0)
{
    free (utf8);
    return 0;
}

return utf8;

static const FcChar8 *
FcSfntNameLanguage (FT_SfntName *sname)
{
    int i;
    FT_UShort platform_id = sname->platform_id;
    FT_UShort language_id = sname->language_id;

    /*
     * Many names encoded for TT_PLATFORM_MACINTOSH are broken
     * in various ways. Kludge around them.
     */
    if (platform_id == TT_PLATFORM_MACINTOSH &&
        sname->encoding_id == TT_MAC_ID_ROMAN &&
        FcLooksLikeSJIS (sname->string, sname->string_len))
    {
language_id = TT_MAC_LANGID_JAPANESE;

for (i = 0; i < NUM_FC_FT_LANGUAGE; i++)
if (fcFtLanguage[i].platform_id == platform_id &&
(fcFtLanguage[i].language_id == TT_LANGUAGE_DONT_CARE ||
fcFtLanguage[i].language_id == language_id))
{
    if (fcFtLanguage[i].lang[0] == '\0')
        return NULL;
    else
        return (FcChar8 *) fcFtLanguage[i].lang;
}
return 0;

/* Order is significant.  For example, some B&H fonts are hinted by
URW++, and both strings appear in the notice. */

static const char *FcNoticeFoundries[][2] =
{
    {"Adobe", "adobe"},
    {"Bigelow", "b&h"},
    {"Bitstream", "bitstream"},
    {"Gnat", "culmus"},
    {"Iorsh", "culmus"},
    {"HanYang System", "hanyang"},
    {"Font21", "hwan"},
    {"IBM", "ibm"},
    {"International Typeface Corporation", "itc"},
    {"Linotype", "linotype"},
    {"LINOTYPE-HELL", "linotype"},
    {"Microsoft", "microsoft"},
    {"Monotype", "monotype"},
    {"Omega", "omega"},
    {"Tiro Typeworks", "tiro"},
    {"URW", "urw"},
    {"XFree86", "xfree86"},
    {"Xorg", "xorg"},
};

#define NUM_NOTICE_FOUNDRIES(int) (sizeof (FcNoticeFoundries) / sizeof (FcNoticeFoundries[0]))

static const FcChar8 *
FcNoticeFoundry(const FT_String *notice)
{
    int i;


if (notice)  
for (i = 0; i < NUM_NOTICE_FOUNDRIES; i++)  
    {  
        const char *n = FcNoticeFoundries[i][0];  
        const char *f = FcNoticeFoundries[i][1];  

        if (strstr ((const char *) notice, n))  
           return (const FcChar8 *) f;  
    }  

return 0;  
}  

static FcBool  
FcVendorMatch(const FT_Char vendor[4], const FT_Char *vendor_string)  
{  
    /* vendor is not necessarily NUL-terminated. */  
    int i, len;  

    len = strlen((char *) vendor_string);  
if (memcmp(vendor, vendor_string, len) != 0)  
            return FcFalse;  
    for (i = len; i < 4; i++)  
        if (vendor[i] != ' ' && vendor[i] != '\0')  
            return FcFalse;  
    return FcTrue;  
}  

/* This table is partly taken from ttmkfdir by Joerg Pommnitz. */  

/* It should not contain useless entries (such as UNKN) nor duplicate  
entries for padding both with spaces and NULs. */  

static const struct  
{  
    const FT_Char   vendor[5];  
    const FcChar8   foundry[13];  
}  
FcVendorFoundries[] = {  
{ "ADBE", "adobe"},  
{ "AGFA", "agfa"},  
{ "ALTS", "altsys"},  
{ "APPL", "apple"},  
{ "ARPH", "arphic"},  
{ "ATEC", "alltype"},  
{ "B&H", "b&h"},  
{ "BITS", "bitstream"},  
{ "CANO", "cannon"},  
{ "CLM", "culmus"},  
{ "DYNA", "dynalab"},  
{ "EPSN", "epson"},  
}
{ "FJ", "fujitsu"},
{ "IBM", "ibm"},
{ "TTC", "ito"},
{ "IMPR", "impress"},
{ "LARA", "larabiefonts"},
{ "LEAF", "interleaf"},
{ "LETR", "letraset"},
{ "LINO", "linotype"},
{ "MACR", "macromedia"},
{ "MONO", "monotype"},
{ "MS", "microsoft"},
{ "MT", "monotype"},
{ "NEC", "nec"},
{ "PARA", "paratype"},
{ "QMSI", "qms"},
{ "RICO", "ricoh"},
{ "URW", "urw"},
{ "Y&Y", "y&y"}
};

#define NUM_VENDOR_FOUNDRIES (int) (sizeof (FcVendorFoundries) / sizeof (FcVendorFoundries[0]))

static const FcChar8 *
FcVendorFoundry(const FT_Char vendor[4])
{
    int i;

    if (vendor)
        for(i = 0; i < NUM_VENDOR_FOUNDRIES; i++)
            if (FcVendorMatch (vendor, FcVendorFoundries[i].vendor))
                return FcVendorFoundries[i].foundry;

    return 0;
}

typedef struct _FcStringConst {
    const FcChar8 *name;
    int value;
} FcStringConst;

static int
FcStringIsConst (const FcChar8 *string,
    const FcStringConst *c,
    int nc)
{
    int i;

    for (i = 0; i < nc; i++)
        if (FcStrCmpIgnoreBlanksAndCase (string, c[i].name) == 0)
return c[i].value;
    return -1;
}

static int
FcStringContainsConst (const FcChar8 *string,
    const FcStringConst *c,
    int nc)
{
    int i;

    for (i = 0; i < nc; i++)
    {
        if (c[i].name[0] == '<')
            if (FcStrContainsWord (string, c[i].name + 1))
                return c[i].value;
        else
            if (FcStrContainsIgnoreBlanksAndCase (string, c[i].name))
                return c[i].value;
    }
    return -1;
}

typedef FcChar8 *FC8;

static const FcStringConst weightConsts[] = {
    { (FC8) "thin", FC_WEIGHT_THIN },
    { (FC8) "extralight", FC_WEIGHT_EXTRALIGHT },
    { (FC8) "ultralight", FC_WEIGHT_ULTRALIGHT },
    { (FC8) "light", FC_WEIGHT_LIGHT },
    { (FC8) "book", FC_WEIGHT_BOOK },
    { (FC8) "regular", FC_WEIGHT_REGULAR },
    { (FC8) "normal", FC_WEIGHT_NORMAL },
    { (FC8) "medium", FC_WEIGHT_MEDIUM },
    { (FC8) "demibold", FC_WEIGHT_DEMIBOLD },
    { (FC8) "demi", FC_WEIGHT_DEMIBOLD },
    { (FC8) "semibold", FC_WEIGHT_SEMIBOLD },
    { (FC8) "extrabold", FC_WEIGHT_EXTRABOLD },
    { (FC8) "superbold", FC_WEIGHT_EXTRABOLD },
    { (FC8) "ultrabold", FC_WEIGHT ULTRABOLD },
    { (FC8) "bold", FC_WEIGHT_BOLD },
    { (FC8) "ultrablack", FC_WEIGHT_ULTRABLACK },
    { (FC8) "superblack", FC_WEIGHT_EXTRABLACK },
    { (FC8) "extrablack", FC_WEIGHT_EXTRABLACK },
static const FcStringConst  widthConsts[] = {
    { (FC8) "ultracondensed", FC_WIDTH_ULTRACONDENSED },
    { (FC8) "extracondensed", FC_WIDTH_EXTRACONDENSED },
    { (FC8) "semicondensed", FC_WIDTH_SEMICONDENSED },
    { (FC8) "condensed", FC_WIDTH_CONDENSED }, /* must be after *condensed */
    { (FC8) "normal", FC_WIDTH_NORMAL },
    { (FC8) "semiexpanded", FC_WIDTH_SEMIEXPANDED },
    { (FC8) "extraexpanded", FC_WIDTH_EXTRAEXPANDED },
    { (FC8) "ultraexpanded", FC_WIDTH_ULTRAEXPANDED },
    { (FC8) "expanded", FC_WIDTH_EXPANDED }, /* must be after *expanded */
    { (FC8) "extended", FC_WIDTH_EXTENDED },
};

#define NUM_WIDTH_CONSTS    (int) (sizeof (widthConsts) / sizeof (widthConsts[0]))

static const FcStringConst  slantConsts[] = {
    { (FC8) "italic", FC_SLANT_ITALIC },
    { (FC8) "kursiv", FC_SLANT_ITALIC },
    { (FC8) "oblique", FC_SLANT_OBLIQUE },
};

#define NUM_SLANT_CONSTS    (int) (sizeof (slantConsts) / sizeof (slantConsts[0]))

static const FcStringConst  decorativeConsts[] = {
    { (FC8) "shadow", FcTrue },
    { (FC8) "caps", FcTrue },
    { (FC8) "antiqua", FcTrue },
    { (FC8) "roman", FcTrue },
    { (FC8) "embossed", FcTrue },
    { (FC8) "dunhill", FcTrue },
};

#define NUM_DECORATIVE_CONSTS  (int) (sizeof (decorativeConsts) / sizeof (decorativeConsts[0]))
#define FcContainsDecorative(s) FcStringContainsConst (s, decorativeConstrs, NUM_DECORATIVE_CONSTS)

static double
FcGetPixelSize (FT_Face face, int i)
{
    #if HAVE_FT_GET_BDF_PROPERTY
        if (face->num_fixed_sizes == 1)
        {
            BDF_PropertyRec prop;
            int rc;
            rc = FT_Get_BDF_Property (face, "PIXEL_SIZE", &prop);
            if (rc == 0 && prop.type == BDF_PROPERTY_TYPE_INTEGER)
                return (double) prop.u.integer;
        }
    #endif

    #if HAVE_FT_BITMAP_SIZE_Y_PPEM
        return (double) face->available_sizes[i].y_ppem / 64.0;
    #else
        return (double) face->available_sizes[i].height;
    #endif
}

static FcBool
FcStringInPatternElement (FcPattern *pat, const char *elt, FcChar8 *string)
{
    int e;
    FcChar8 *old;
    for (e = 0; FcPatternGetString (pat, elt, e, &old) == FcResultMatch; e++)
    {
        if (!FcStrCmpIgnoreBlanksAndCase (old, string))
            return FcTrue;
    }
    return FcFalse;
}

static const FT_UShort platform_order[] = {
    TT_PLATFORM_MICROSOFT, TT_PLATFORM_APPLE_UNICODE, TT_PLATFORM_MACINTOSH,
};
#define NUM_PLATFORM_ORDER (sizeof (platform_order) / sizeof (platform_order[0]))

static const FT_UShort nameid_order[] = {
    #ifdef TT_NAME_ID_WWS_FAMILY
        TT_NAME_ID_WWS_FAMILY,
    #endif
};
TT_NAME_ID_PREFERRED_FAMILY,
TT_NAME_ID_FONT_FAMILY,
TT_NAME_ID_MAC_FULL_NAME,
TT_NAME_ID_FULL_NAME,
#endif TT_NAME_ID_WWS_SUBFAMILY
    TT_NAME_ID_WWS_SUBFAMILY,
#endif
    TT_NAME_ID_PREFERRED_SUBFAMILY,
    TT_NAME_ID_FONT_SUBFAMILY,
    TT_NAME_ID_TRADEMARK,
    TT_NAME_ID_MANUFACTURER,
};

#define NUM_NAMEID_ORDER  (sizeof (nameid_order) / sizeof (nameid_order[0]))

FcPattern *
FcFreeTypeQueryFace (const FT_Face  face,
    const FcChar8  *file,
    int    id,
    FcBlanks  *blanks)
{
    FcPattern  *pat;
    int       slant = -1;
    int       weight = -1;
    int       width = -1;
    FcBool    decorative = FcFalse;
    int       i;
    FcCharSet  *cs;
    FcLangSet  *ls;
#if 0
    FcChar8   *family = 0;
#endif
    FcChar8   *complex_;
    const FcChar8  *foundry = 0;
    int       spacing;
    TT_OS2    *os2;
#if HAVE_FT_GET_PS_FONT_INFO
    PS_FontInfoRec  psfontinfo;
#endif
#if HAVE_FT_GET_BDF_PROPERTY
    BDF_PropertyRec prop;
#endif
    TT_Header    *head;
    const FcChar8  *exclusiveLang = 0;
    FT_SfntName   sname;
    FT_UInt       snamei, snamec;

    int      nfamily = 0;
    int      nfamily_lang = 0;
int  nstyle = 0;
int  nstyle_lang = 0;
int  nfullname = 0;
int  nfullname_lang = 0;
unsigned int  p, n;
int  platform, nameid;

FcChar8  *style = 0;
int         st;
char        psname[256];
const char  *tmp;

FcChar8  *hashstr = NULL;
FT_Error  err;
FT_ULong   len = 0, alen;

pat = FcPatternCreate ();
if (!pat)
goto bail0;

if (!FcPatternAddBool (pat, FC_OUTLINE,
(face->face_flags & FT_FACE_FLAG_SCALABLE) != 0))
goto bail1;

if (!FcPatternAddBool (pat, FC_SCALABLE,
(face->face_flags & FT_FACE_FLAG_SCALABLE) != 0))
goto bail1;

/*
 * Get the OS/2 table
 */

os2 = (TT_OS2 *) FT_Get_Sfnt_Table (face, ft_sfnt_os2);

/*
 * Look first in the OS/2 table for the foundry, if
 * not found here, the various notices will be searched for
 * that information, either from the sfnt name tables or
 * the Postscript FontInfo dictionary. Finally, the
 * BDF properties will queried.
 */

if (os2 && os2->version >= 0x0001 && os2->version != 0xffff)
    foundry = FcVendorFoundry(os2->achVendID);

if (FcDebug () & FC_DBG_SCANV)
    printf ("\n");
/*
Grub through the name table looking for family and style names. FreeType makes quite a hash of them:

```
snamec = FT_Get_Sfnt_Name_Count (face);
for (p = 0; p <= NUM_PLATFORM_ORDER; p++)
{
  if (p < NUM_PLATFORM_ORDER)
    platform = platform_order[p];
  else
    platform = 0xffff;

/*
 * Order nameids so preferred names appear first in the resulting list
 */
for (n = 0; n < NUM_NAMEID_ORDER; n++)
{
  nameid = nameid_order[n];

  for (snamei = 0; snamei < snamec; snamei++)
  {
    FcChar8*utf8, *pp;
    const FcChar8*lang;
    const char*elt = 0, *eltlang = 0;
    int*np = 0, *nlangp = 0;
    size_tlen;

    if (FT_Get_Sfnt_Name (face, snamei, &sname) != 0)
      continue;
    if (sname.name_id != nameid)
      continue;

    /*
    * Sort platforms in preference order, accepting all other platforms last
    */
    if (p < NUM_PLATFORM_ORDER)
    {
      if (sname.platform_id != platform)
        continue;
    }
    else
    {
      unsigned intsp;

      for (sp = 0; sp < NUM_PLATFORM_ORDER; sp++)
        if (sname.platform_id == platform_order[sp])
          continue;
    }
  }
}
```
break;
  if (sp != NUM_PLATFORM_ORDER)
continue;
}
utf8 = FcSfntNameTranscode (&sname);
lang = FcSfntNameLanguage (&sname);

if (!utf8)
  continue;

switch (sname.name_id) {
  #ifdef TT_NAME_ID_WWS_FAMILY
    case TT_NAME_ID_WWS_FAMILY:
      #endif
    case TT_NAME_ID_PREFERRED_FAMILY:
    case TT_NAME_ID_FONT_FAMILY:
      #if 0
    case TT_NAME_ID_UNIQUE_ID:
      #endif
      if (FcDebug () & FC_DBG_SCANV)
printf ("found family (n %2d p %d e %d l 0x%04x) %s\n",
    sname.name_id, sname.platform_id,
    sname.encoding_id, sname.language_id,
    utf8);
    elt = FC_FAMILY;
    eltlang = FC_FAMILYLANG;
    np = &nfamily;
    nlangp = &nfamily_lang;
    break;
  case TT_NAME_ID_MAC_FULL_NAME:
  case TT_NAME_ID_FULL_NAME:
    if (FcDebug () & FC_DBG_SCANV)
printf ("found full   (n %2d p %d e %d l 0x%04x) %s\n",
    sname.name_id, sname.platform_id,
    sname.encoding_id, sname.language_id,
    utf8);
    elt = FC_FULLNAME;
    eltlang = FC_FULLNAMELANG;
    np = &fullname;
    nlangp = &fullname_lang;
    break;
  #ifdef TT_NAME_ID_WWS_SUBFAMILY
    case TT_NAME_ID_WWS_SUBFAMILY:
      #endif
    case TT_NAME_ID_PREFERRED_SUBFAMILY:
    case TT_NAME_ID_FONT_SUBFAMILY:
if (utf8)
{
    pp = utf8;
    while (*pp == ' ')
        pp++;
    len = strlen ((const char *) pp);
    memmove (utf8, pp, len + 1);
    pp = utf8 + len - 1;
    while (*pp == ' ')
        pp--;
    *(pp + 1) = 0;
}
    if (FcDebug () & FC_DBG_SCANV)
        printf ("found style (n %2d p %d e %d l 0x%04x) %s\n",
            sname.name_id, sname.platform_id,
            sname.encoding_id, sname.language_id,
            utf8);
    elt = FC_STYLE;
    eltlang = FC_STYLELANG;
    np = &nstyle;
    nlangp = &nstyle_lang;
    break;
    case TT_NAME_ID_TRADEMARK:
    case TT_NAME_ID_MANUFACTURER:
        /* If the foundry wasn't found in the OS/2 table, look here */
        if(!foundry)
            break;
    if (elt)
    {
        if (FcStringInPatternElement (pat, elt, utf8))
            free (utf8);
        continue;
    }
    /* add new element */
    if (!FcPatternAddString (pat, elt, utf8))
    {
        goto bail1;
    }
    free (utf8);
    goto bail1;
    free (utf8);
    if (lang)
    {
        /* pad lang list with 'xx' to line up with elt */
while (*nlangp < *np)
{
    if (!FcPatternAddString (pat, eltlang, (FcChar8 *) "xx"))
        goto bail1;
    ++*nlangp;
}
if (!FcPatternAddString (pat, eltlang, lang))
    goto bail1;
    ++*nlangp;
} else
    free (utf8);
}
}

if (!nfamily && face->family_name &&
    FcStrCmpIgnoreBlanksAndCase ((FcChar8 *) face->family_name, (FcChar8 *) "") != 0)
{
    if (FcDebug () & FC_DBG_SCANV)
        printf ("using FreeType family \"%s\"\n", face->family_name);
    if (!FcPatternAddString (pat, FC_FAMILY, (FcChar8 *) face->family_name))
        goto bail1;
    ++nfamily;
}

if (!nstyle && face->style_name &&
    FcStrCmpIgnoreBlanksAndCase ((FcChar8 *) face->style_name, (FcChar8 *) "") != 0)
{
    if (FcDebug () & FC_DBG_SCANV)
        printf ("using FreeType style \"%s\"\n", face->style_name);
    if (!FcPatternAddString (pat, FC_STYLE, (FcChar8 *) face->style_name))
        goto bail1;
    ++nstyle;
}

if (!nfamily)
{
    FcChar8*start, *end;
    FcChar8*family;

    start = (FcChar8 *) strrchr ((char *) file, '/');
    if (start)
        start++;
    else
        start = (FcChar8 *) file;
end = (FcChar8 *) strrchr ((char *) start, '.');
if (!end)
end = start + strlen ((char *) start);
/* freed below */
family = malloc (end - start + 1);
strncpy ((char *) family, (char *) start, end - start);
family[end - start] = '\0';
if (FcDebug () & FC_DBG_SCANV)
printf ("using filename for family %s\n", family);
if (!FcPatternAddString (pat, FC_FAMILY, family))
{
free (family);
goto bail1;
}
free (family);
++nfamily;
}
/* Add the PostScript name into the cache */
tmp = FT_Get_Postscript_Name (face);
if (!tmp)
{
FcChar8 *family, *familylang = NULL;
size_t len;
int n = 0;
/* Workaround when FT_Get_Postscript_Name didn't give any name.
* try to find out the English family name and convert.
*/
while (FcPatternObjectGetString (pat, FC_FAMILYLANG_OBJECT, n, &familylang) == FcResultMatch)
{
if (FcStrCmp (familylang, (const FcChar8 *)"en") == 0)
break;
n++;
familylang = NULL;
}
if (!familylang)
n = 0;
if (FcPatternObjectGetString (pat, FC_FAMILY_OBJECT, n, &family) != FcResultMatch)
goto bail1;
len = strlen ((const char *)family);
/* the literal name in PostScript Language is limited to 127 characters though,
* It is the architectural limit. so assuming 255 characters may works enough.
*/
for (i = 0; i < len && i < 255; i++)
{
/* those characters are not allowed to be the literal name in PostScript */

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static const char exclusive_chars[] = "\x04()<>["]\t\f\r\n ";

if (strchr(exclusive_chars, family[i]) != NULL)
psname[i] = '-';
else
psname[i] = family[i];
}
psname[i] = 0;
else
{
strcpy (psname, tmp);
}
if (!FcPatternAddString (pat, FC_POSTSCRIPT_NAME, (const FcChar8 *)psname))
goto bail1;

if (!FcPatternAddString (pat, FC_FILE, file))
goto bail1;

if (!FcPatternAddInteger (pat, FC_INDEX, id))
goto bail1;

#if 0
/*
 * don't even try this -- CJK 'monospace' fonts are really
 * dual width, and most other fonts don't bother to set
 * the attribute.  Sigh.
 */
if ((face->face_flags & FT_FACE_FLAG_FIXED_WIDTH) != 0)
if (!FcPatternAddInteger (pat, FC_SPACING, FC_MONO))
goto bail1;
#endif

/*
 * Find the font revision (if available)
 */
head = (TT_Header *) FT_Get_Sfnt_Table (face, ft_sfnt_head);
if (head)
{
if (!FcPatternAddInteger (pat, FC_FONTVERSION, head->Font_Revision))
goto bail1;
}
else
{
if (!FcPatternAddInteger (pat, FC_FONTVERSION, 0))
goto bail1;
}
if (os2 && os2->version >= 0x0001 && os2->version != 0xffff)
{
for (i = 0; i < NUM_CODE_PAGE_RANGE; i++)
{
    FT_ULong bits;
    int bit;
    if (FcCodePageRange[i].bit < 32)
    {
        bits = os2->ulCodePageRange1;
        bit = FcCodePageRange[i].bit;
    }
    else
    {
        bits = os2->ulCodePageRange2;
        bit = FcCodePageRange[i].bit - 32;
    }
    if (bits & (1 << bit))
    {
        /*
        * If the font advertises support for multiple
        * "exclusive" languages, then include support
        * for any language found to have coverage
        */
        if (exclusiveLang)
        {
            exclusiveLang = 0;
            break;
        }
        exclusiveLang = FcCodePageRange[i].lang;
    }
}
}

if (os2 && os2->version != 0xffff)
{
    if (os2->usWeightClass == 0)
    :
    else if (os2->usWeightClass < 150)
        weight = FC_WEIGHT_THIN;
    else if (os2->usWeightClass < 250)
        weight = FC_WEIGHT_EXTRALIGHT;
    else if (os2->usWeightClass < 350)
        weight = FC_WEIGHT_LIGHT;
    else if (os2->usWeightClass < 450)
        weight = FC_WEIGHT_REGULAR;
    else if (os2->usWeightClass < 550)
        weight = FC_WEIGHT_MEDIUM;
    else if (os2->usWeightClass < 650)

weight = FC_WEIGHT_SEMIBOLD;
else if (os2->usWeightClass < 750)
    weight = FC_WEIGHT_BOLD;
else if (os2->usWeightClass < 850)
    weight = FC_WEIGHT_EXTRABOLD;
else if (os2->usWeightClass < 925)
    weight = FC_WEIGHT_BLACK;
else if (os2->usWeightClass < 1000)
    weight = FC_WEIGHT_EXTRABLACK;
if ((FcDebug() & FC_DBG_SCANV) & weight != -1)
    printf ("os2 weight class %d maps to weight %d\n",
            os2->usWeightClass, weight);

switch (os2->usWidthClass) {
    case 1: width = FC_WIDTH_ULTRACONDENSED; break;
    case 2: width = FC_WIDTH_EXTRACONDENSED; break;
    case 3: width = FC_WIDTHCONDENSED; break;
    case 4: width = FC_WIDTH_SEMICONDENSED; break;
    case 5: width = FC_WIDTH_NORMAL; break;
    case 6: width = FC_WIDTH_SEMIEXPANDED; break;
    case 7: width = FC_WIDTH_EXPANDED; break;
    case 8: width = FC_WIDTH_EXTRAEXPANDED; break;
    case 9: width = FC_WIDTH_ULTRAEXPANDED; break;
}
if ((FcDebug() & FCDBGSCANV) && width != -1)
    printf ("os2 width class %d maps to width %d\n",
            os2->usWidthClass, width);

if (os2 && (complex = FcFontCapabilities(face)))
    if (!FcPatternAddString (pat, FC_CAPABILITY, complex))
        free (complex);
    goto bail1;
free (complex);
}

/*
 * Type 1: Check for FontInfo dictionary information
 * Code from g2@magestudios.net (Gerard Escalante)
 */

#if HAVE_FT_GET_PS_FONT_INFO
    if (FT_Get_PS_Font_Info(face, &psfontinfo) == 0)
        if (weight == -1 & psfontinfo.weight)

weight = FcIsWeight((FcChar8 *) psfontinfo.weight);
    if (FcDebug() & FC_DBG_SCANV)
      printf(“\uType1 weight %s maps to %d\n”,
                            psfontinfo.weight, weight);
}

#if 0
/*
 * Don’t bother with italic_angle; FreeType already extracts that
 * information for us and sticks it into style_flags
 */
    if (psfontinfo.italic_angle)
      slant = FC_SLANT_ITALIC;
    else
      slant = FC_SLANT_ROMAN;
#endif

if(!foundry)
    foundry = FcNoticeFoundry(psfontinfo.notice);
#endif /* HAVE_FT_GET_PS_FONT_INFO */

#if HAVE_FT_GET_BDF_PROPERTY
/*
 * Finally, look for a FOUNDRY BDF property if no other
 * mechanism has managed to locate a foundry
 */

    if (!foundry)
    {
        int          rc;
        rc = FT_Get_BDF_Property(face, ”FOUNDRY”, &prop);
        if(rc == 0 &&
            prop.type == BDF_PROPERTY_TYPE_ATOM)
            foundry = (FcChar8 *) prop.u.atom;
    }

    if (width == -1)
    {
        if (FT_Get_BDF_Property(face, ”RELATIVE_SETWIDTH”, &prop) == 0 &&
            (prop.type == BDF_PROPERTY_TYPE_INTEGER ||
             prop.type == BDF_PROPERTY_TYPE_CARDINAL))
        {
            FT_Int32 value;

            if (prop.type == BDF_PROPERTY_TYPE_INTEGER)
                value = prop.u.integer;
            else
                value = (FT_Int32) prop.u.cardinal;
        }
switch ((value + 5) / 10) {
    case 1: width = FC_WIDTH_ULTRACONDENSED; break;
    case 2: width = FC_WIDTH_EXTRACONDENSED; break;
    case 3: width = FC_WIDTH_CONDENSED; break;
    case 4: width = FC_WIDTH_SEMICONDENSED; break;
    case 5: width = FC_WIDTH_NORMAL; break;
    case 6: width = FC_WIDTH_SEMIEXPANDED; break;
    case 7: width = FC_WIDTH_EXPANDED; break;
    case 8: width = FC_WIDTH_EXTRAEXPANDED; break;
    case 9: width = FC_WIDTH_ULTRAEXPANDED; break;
}

if (width == -1 &&
    FT_Get_BDF_Property (face, "SETWIDTH_NAME", &prop) == 0 &&
    prop.type == BDF_PROPERTY_TYPE_ATOM)
{
    width = FcIsWidth ((FcChar8 *) prop.u.atom);
    if (FcDebug() & FC_DBG_SCANV)
        printf ("\tsetwidth %s maps to %d\n", prop.u.atom, width);
}
#endif

/*
 * Look for weight, width and slant names in the style value
 */
for (st = 0; FcPatternGetString (pat, FC_STYLE, st, &style) == FcResultMatch; st++)
{
    if (weight == -1)
    {
        weight = FcContainsWeight (style);
        if (FcDebug() & FC_DBG_SCANV)
            printf ("\tStyle %s maps to weight %d\n", style, weight);
    }
    if (width == -1)
    {
        width = FcContainsWidth (style);
        if (FcDebug() & FC_DBG_SCANV)
            printf ("\tStyle %s maps to width %d\n", style, width);
    }
    if (slant == -1)
    {
        slant = FcContainsSlant (style);
        if (FcDebug() & FC_DBG_SCANV)
            printf ("\tStyle %s maps to slant %d\n", style, slant);
    }
    if (decorative == FcFalse)
    {

decorative = FcContainsDecorative (style) > 0;
if (FcDebug() & FC_DBG_SCANV)
printf ("\tStyle %s maps to decorative %d\n", style, decorative);
}
}
/
/*
 * Pull default values from the FreeType flags if more
 * specific values not found above
 */
if (slant == -1)
{
    slant = FC_SLANT_ROMAN;
if (face->style_flags & FT_STYLE_FLAG_ITALIC)
    slant = FC_SLANT_ITALIC;
}

if (weight == -1)
{
    weight = FC_WEIGHT_MEDIUM;
if (face->style_flags & FT_STYLE_FLAG_BOLD)
    weight = FC_WEIGHT_BOLD;
}

if (width == -1)
width = FC_WIDTH_NORMAL;

if (foundry == 0)
foundry = (FcChar8 *) "unknown";

if (!FcPatternAddInteger (pat, FC_SLANT, slant))
goto bail1;

if (!FcPatternAddInteger (pat, FC_WEIGHT, weight))
goto bail1;

if (!FcPatternAddInteger (pat, FC_WIDTH, width))
goto bail1;

if (!FcPatternAddString (pat, FC_FOUNDRY, foundry))
goto bail1;

if (!FcPatternAddBool (pat, FC_DECORATIVE, decorative))
goto bail1;

err = FT_Load_Sfnt_Table (face, 0, 0, NULL, &len);
if (err == FT_Err_Ok)
{
    char *fontdata;
alen = (len + 63) & ~63;
fontdata = malloc (alen);
if (!fontdata)
    goto bail3;
err = FT_Load_Sfnt_Table (face, 0, 0, (FT_Byte *)fontdata, &len);
if (err != FT_Err_Ok)
{
    free (fontdata);
    goto bail3;
}
memset (&fontdata[len], 0, alen - len);
hashstr = FcHashGetSHA256DigestFromMemory (fontdata, len);
free (fontdata);
}
else if (err == FT_Err_Invalid_Face_Handle)
{
#if HAVE_FT_GET_BDF_PROPERTY
/* For PCF fonts, override the computed spacing with the one from
the property */
if(FT_Get_BDF_Property(face, "SPACING", &prop) == 0 &&
prop.type == BDF_PROPERTY_TYPE_ATOM) {
    if(!strcmp(prop.u.atom, "c") || !strcmp(prop.u.atom, "C"))
        spacing = FC_CHARCELL;
    else if(!strcmp(prop.u.atom, "m") || !strcmp(prop.u.atom, "M"))
        spacing = FC_MONO;
    else if(!strcmp(prop.u.atom, "p") || !strcmp(prop.u.atom, "P"))
        spacing = FC_PROPORTIONAL;
}
#endif

/*
 * Skip over PCF fonts that have no encoded characters; they're
 * usually just Unicode fonts transcoded to some legacy encoding
 * FT forces us to approximate whether a font is a PCF font
 * or not by whether it has any BDF properties. Try PIXEL_SIZE;
 * I don't know how to get a list of BDF properties on the font. -PL
 */
if (FcCharSetCount (cs) == 0)
{
#if HAVE_FT_GET_BDF_PROPERTY
    if(FT_Get_BDF_Property(face, "PIXEL_SIZE", &prop) == 0)
        goto bail2;
#endif
}
if (!FcPatternAddCharSet (pat, FC_CHARSET, cs))
goto bail2;

ls = FcFreeTypeLangSet (cs, exclusiveLang);
if (!ls)
goto bail2;

if (!FcPatternAddLangSet (pat, FC_LANG, ls))
{
    FcLangSetDestroy (ls);
goto bail2;
}

FcLangSetDestroy (ls);

if (spacing != FC_PROPORTIONAL)
if (!FcPatternAddInteger (pat, FC_SPACING, spacing))
goto bail2;

if (!face->face_flags & FT_FACE_FLAG_SCALABLE)
{
    for (i = 0; i < face->num_fixed_sizes; i++)
        if (!FcPatternAddDouble (pat, FC_PIXEL_SIZE,
FcGetPixelSize (face, i)))
goto bail2;
if (!FcPatternAddBool (pat, FC_ANTIALIAS, FcFalse))
    goto bail2;
}
#endif

/*
 * Use the (not well documented or supported) X-specific function
 * from FreeType to figure out the font format
 */
{
    const char *font_format = FT_Get_X11_Font_Format (face);
    if (font_format)
        if (!FcPatternAddString (pat, FC_FONTFORMAT, (FcChar8 *) font_format))
            goto bail2;
}
#endif

/*
 * Drop our reference to the charset
 */
FcCharSetDestroy (cs);

return pat;

bail2:
    FcCharSetDestroy (cs);
bail1:
    FcPatternDestroy (pat);
bail0:
    return NULL;
}

FcPattern *
FcFreeTypeQuery(const FcChar8 *file, int id, FcBlanks *blanks, int *count)
{
    FT_Face face;
    FT_Library ftLibrary;
    FcPattern *pat = NULL;

    if (FT_Init_FreeType (&ftLibrary))
        return NULL;
    if (FT_New_Face (ftLibrary, (char *) file, id, &face))
        goto bail;

    if (FT_Init_FreeType (&ftLibrary))
        return NULL;
    if (FT_New_Face (ftLibrary, (char *) file, id, &face))
        goto bail;
*count = face->num_faces;

pat = FcFreeTypeQueryFace (face, file, id, blanks);

FT_Done_Face (face);
bail:
    FT_Done_FreeType (ftLibrary);
    return pat;
}

/*
 * For our purposes, this approximation is sufficient
 */
#if !HAVE_FT_GET_NEXT_CHAR
#define FT_Get_Next_Char(face, ucs4, gi) ((ucs4) >= 0xffffff ?
    (*gi) = 0, 0 :
    (*gi) = 1, (ucs4) + 1)
#warning "No FT_Get_Next_Char: Please install freetype version 2.1.0 or newer"
#endif

typedef struct _FcCharEnt {
    FcChar16   bmp;
    unsigned char   encode;
} FcCharEnt;

struct _FcCharMap {
    const FcCharEnt *ent;
    int      nent;
};

typedef struct _FcFontDecode {
    FT_Encoding  encoding;
    const FcCharMap *map;
    FcChar32     max;
} FcFontDecode;

static const FcCharEnt AdobeSymbolEnt[] = {
    { 0x0020, 0x20 }, /* SPACE# space */
    { 0x0021, 0x21 }, /* EXCLAMATION MARK# exclam */
    { 0x0023, 0x23 }, /* NUMBER SIGN# numbersign */
    { 0x0025, 0x25 }, /* PERCENT SIGN# percent */
    { 0x0026, 0x26 }, /* AMPERSAND# ampersand */
    { 0x0028, 0x28 }, /* LEFT PARENTHESES# parenleft */
    { 0x0029, 0x29 }, /* RIGHT PARENTHESES# parenright */
    { 0x002B, 0x2B }, /* PLUS SIGN# plus */
    { 0x002C, 0x2C }, /* COMMA# comma */
    { 0x002E, 0x2E }, /* FULL STOP# period */
{ 0x002F, 0x2F }, /* SOLIDUS # slash */
{ 0x0030, 0x30 }, /* DIGIT ZERO # zero */
{ 0x0031, 0x31 }, /* DIGIT ONE # one */
{ 0x0032, 0x32 }, /* DIGIT TWO # two */
{ 0x0033, 0x33 }, /* DIGIT THREE # three */
{ 0x0034, 0x34 }, /* DIGIT FOUR # four */
{ 0x0035, 0x35 }, /* DIGIT FIVE # five */
{ 0x0036, 0x36 }, /* DIGIT SIX # six */
{ 0x0037, 0x37 }, /* DIGIT SEVEN # seven */
{ 0x0038, 0x38 }, /* DIGIT EIGHT # eight */
{ 0x0039, 0x39 }, /* DIGIT NINE # nine */
{ 0x003A, 0x3A }, /* COLON # colon */
{ 0x003B, 0x3B }, /* SEMICOLON # semicolon */
{ 0x003C, 0x3C }, /* LESS-THAN SIGN # less */
{ 0x003D, 0x3D }, /* EQUALS SIGN # equal */
{ 0x003E, 0x3E }, /* GREATER-THAN SIGN # greater */
{ 0x003F, 0x3F }, /* QUESTION MARK # question */
{ 0x005B, 0x5B }, /* LEFT SQUARE BRACKET # bracketleft */
{ 0x005D, 0x5D }, /* RIGHT SQUARE BRACKET # bracketright */
{ 0x005F, 0x5F }, /* LOW LINE # underscore */
{ 0x007B, 0x7B }, /* LEFT CURLY BRACKET # braceleft */
{ 0x007C, 0x7C }, /* VERTICAL LINE # bar */
{ 0x007D, 0x7D }, /* RIGHT CURLY BRACKET # braceright */
{ 0x00A0, 0x20 }, /* NO-BREAK SPACE # space */
{ 0x00AC, 0xD8 }, /* NOT SIGN # logicalnot */
{ 0x00B0, 0xB0 }, /* DEGREE SIGN # degree */
{ 0x00B1, 0xB1 }, /* PLUS-MINUS SIGN # plusminus */
{ 0x00B5, 0x52 }, /* GREEK CAPITAL LETTER RHO # Rho */
{ 0x03A3, 0x53 }, /* GREEK CAPITAL LETTER SIGMA# Sigma */
{ 0x03A4, 0x54 }, /* GREEK CAPITAL LETTER TAU# Tau */
{ 0x03A5, 0x55 }, /* GREEK CAPITAL LETTER UPSILON# Upsilon */
{ 0x03A6, 0x46 }, /* GREEK CAPITAL LETTER PHI# Phi */
{ 0x03A7, 0x43 }, /* GREEK CAPITAL LETTER CHI# Chi */
{ 0x03A8, 0x59 }, /* GREEK CAPITAL LETTER PSI# Psi */
{ 0x03A9, 0x57 }, /* GREEK CAPITAL LETTER OMEGA# Omega */
{ 0x03B1, 0x61 }, /* GREEK SMALL LETTER ALPHA# alpha */
{ 0x03B2, 0x62 }, /* GREEK SMALL LETTER BETA# beta */
{ 0x03B3, 0x67 }, /* GREEK SMALL LETTER GAMMA# gamma */
{ 0x03B4, 0x64 }, /* GREEK SMALL LETTER DELTA# delta */
{ 0x03B5, 0x65 }, /* GREEK SMALL LETTER EPSILON# epsilon */
{ 0x03B6, 0x7A }, /* GREEK SMALL LETTER ZETA# zeta */
{ 0x03B7, 0x68 }, /* GREEK SMALL LETTER ETA# eta */
{ 0x03B8, 0x71 }, /* GREEK SMALL LETTER THETA# theta */
{ 0x03B9, 0x69 }, /* GREEK SMALL LETTER IOTA# iota */
{ 0x03BA, 0x6B }, /* GREEK SMALL LETTER KAPPA# kappa */
{ 0x03BB, 0x6C }, /* GREEK SMALL LETTER LAMDA# lambda */
{ 0x03BC, 0x6D }, /* GREEK SMALL LETTER MU# mu */
{ 0x03BD, 0x6E }, /* GREEK SMALL LETTER NU# nu */
{ 0x03BE, 0x78 }, /* GREEK SMALL LETTER XI# xi */
{ 0x03BF, 0x6F }, /* GREEK SMALL LETTER OMICRON# omicron */
{ 0x03C0, 0x70 }, /* GREEK SMALL LETTER PI# pi */
{ 0x03C1, 0x72 }, /* GREEK SMALL LETTER RHO# rho */
{ 0x03C2, 0x56 }, /* GREEK SMALL LETTER FINAL SIGMA# sigma1 */
{ 0x03C3, 0x73 }, /* GREEK SMALL LETTER SIGMA# sigma */
{ 0x03C4, 0x74 }, /* GREEK SMALL LETTER TAU# tau */
{ 0x03C5, 0x75 }, /* GREEK SMALL LETTER UPSILON# upsilon */
{ 0x03C6, 0x66 }, /* GREEK SMALL LETTER PHI# phi */
{ 0x03C7, 0x63 }, /* GREEK SMALL LETTER CHI# chi */
{ 0x03C8, 0x79 }, /* GREEK SMALL LETTER PSI# psi */
{ 0x03C9, 0x77 }, /* GREEK SMALL LETTER OMEGA# omega */
{ 0x03D1, 0x4A }, /* GREEK THETA SYMBOL# theta1 */
{ 0x03D2, 0xA1 }, /* GREEK UPSILON WITH HOOK SYMBOL# Upsilon1 */
{ 0x03D5, 0x6A }, /* GREEK PHI SYMBOL# phi1 */
{ 0x03D6, 0x76 }, /* GREEK PI SYMBOL# omega1 */
{ 0x2022, 0xB7 }, /* BULLET# bullet */
{ 0x2026, 0xBC }, /* HORIZONTAL ELLIPSIS# ellipsis */
{ 0x2032, 0xA2 }, /* PRIME# minute */
{ 0x2033, 0xB2 }, /* DOUBLE PRIME# second */
{ 0x2044, 0xA4 }, /* FRACTION SLASH# fraction */
{ 0x20AC, 0xA0 }, /* EURO SIGN# Euro */
{ 0x2111, 0xC1 }, /* BLACK-LETTER CAPITAL I# Ifraktur */
{ 0x2118, 0xC3 }, /* SCRIPT CAPITAL P# weierstrass */
{ 0x211C, 0xC2 }, /* BLACK-LETTER CAPITAL R# Rfraktur */
{ 0x2126, 0x57 }, /* OHM SIGN# Omega */
{ 0x2135, 0xC0 }, /* ALEF SYMBOL# aleph */
{ 0x2190, 0xAC }, /* LEFTWARDS ARROW# arrowleft */
\{ 0x2191, 0xAD \}, /* UPWARDS ARROW# arrowup */
\{ 0x2192, 0xAE \}, /* RIGHTWARDS ARROW# arrowright */
\{ 0x2193, 0xAF \}, /* DOWNWARDS ARROW# arrowdown */
\{ 0x2194, 0xAB \}, /* LEFT RIGHT ARROW# arrowboth */
\{ 0x21B5, 0xBF \}, /* DOWNWARDS ARROW WITH CORNER LEFTWARDS# carriagereturn */
\{ 0x21D0, 0xDC \}, /* LEFTWARDS DOUBLE ARROW# arrowdblleft */
\{ 0x21D1, 0xDD \}, /* UPWARDS DOUBLE ARROW# arrowdblup */
\{ 0x21D2, 0xDE \}, /* RIGHTWARDS DOUBLE ARROW# arrowdblright */
\{ 0x21D3, 0xDF \}, /* DOWNWARDS DOUBLE ARROW# arrowdbldown */
\{ 0x21D4, 0xDB \}, /* LEFT RIGHT DOUBLE ARROW# arrowdblboth */
\{ 0x2200, 0x22 \}, /* FOR ALL# universal */
\{ 0x2202, 0xB6 \}, /* PARTIAL DIFFERENTIAL# partialdiff */
\{ 0x2203, 0x24 \}, /* THERE EXISTS# existential */
\{ 0x2205, 0xC6 \}, /* EMPTY SET# emptyset */
\{ 0x2206, 0x44 \}, /* INCREMENT# Delta */
\{ 0x2207, 0xD1 \}, /* NABLA# gradient */
\{ 0x2208, 0xCE \}, /* ELEMENT OF# element */
\{ 0x2209, 0xCF \}, /* NOT AN ELEMENT OF# notelement */
\{ 0x220B, 0x27 \}, /* CONTAINS AS MEMBER# suchthat */
\{ 0x220F, 0xD5 \}, /* N-ARY PRODUCT# product */
\{ 0x2211, 0xE5 \}, /* N-ARY SUMMATION# summation */
\{ 0x2212, 0x2D \}, /* MINUS SIGN# minus */
\{ 0x2215, 0xA4 \}, /* DIVISION SLASH# fraction */
\{ 0x2217, 0xA7 \}, /* ASTERISK OPERATOR# asteriskmath */
\{ 0x221A, 0xE5 \}, /* SQUARE ROOT# radical */
\{ 0x221B, 0xB5 \}, /* PROPORTIONAL TO# proportional */
\{ 0x221E, 0xA5 \}, /* INFINITY# infinity */
\{ 0x2220, 0xD0 \}, /* ANGLE# angle */
\{ 0x2227, 0xD9 \}, /* LOGICAL AND# logicaland */
\{ 0x2228, 0xDA \}, /* LOGICAL OR# logicalor */
\{ 0x2229, 0xC7 \}, /* INTERSECTION# intersection */
\{ 0x222A, 0xC8 \}, /* UNION# union */
\{ 0x222B, 0xF2 \}, /* INTEGRAL# integral */
\{ 0x2234, 0x5C \}, /* THEREFORE# therefore */
\{ 0x2235, 0x7E \}, /* TILDE OPERATOR# similar */
\{ 0x2245, 0x40 \}, /* APPROXIMATELY EQUAL TO# congruent */
\{ 0x2248, 0xBB \}, /* ALMOST EQUAL TO# approxequal */
\{ 0x2260, 0xB9 \}, /* NOT EQUAL TO# notequal */
\{ 0x2261, 0xBA \}, /* IDENTICAL TO# equivalence */
\{ 0x2264, 0xA3 \}, /* LESS-THAN OR EQUAL TO# lessequal */
\{ 0x2265, 0xB3 \}, /* GREATER-THAN OR EQUAL TO# greaterequal */
\{ 0x2282, 0xCC \}, /* SUBSET OF# propersubset */
\{ 0x2283, 0xC9 \}, /* SUPERSET OF# propersuperset */
\{ 0x2284, 0xCB \}, /* NOT A SUBSET OF# notsubset */
\{ 0x2286, 0xCD \}, /* SUBSET OF OR EQUAL TO# reflexsubset */
\{ 0x2287, 0xCA \}, /* SUPERSET OF OR EQUAL TO# reflexsuperset */
\{ 0x2295, 0xC5 \}, /* CIRCLED PLUS# circleplus */
\{ 0x2297, 0xC4 \}, /* CIRCLED TIMES# circlemultiply */
static const FcCharMap AdobeSymbol = {
    AdobeSymbolEnt,
    sizeof (AdobeSymbolEnt) / sizeof (AdobeSymbolEnt[0]),
};

static const FcFontDecode fcFontDecoders[] = {

{ ft_encoding_unicode,0,(1 << 21) - 1 },
{ ft_encoding_symbol,&AdobeSymbol,(1 << 16) - 1 },
);

#define NUM_DECODE  (int) (sizeof (fcFontDecoders) / sizeof (fcFontDecoders[0]))

static const FcChar32 prefer_unicode[] = {
  0x20ac, /**< EURO SIGN */
};

#define NUM_PREFER_UNICODE  (int) (sizeof (prefer_unicode) / sizeof (prefer_unicode[0]))

FcChar32
FcFreeTypeUcs4ToPrivate (FcChar32 ucs4, const FcCharMap *map)
{
  int low, high, mid;
  FcChar16 bmp;

  low = 0;
  high = map->nent - 1;
  if (ucs4 < map->ent[low].bmp || map->ent[high].bmp < ucs4)
    return ~0;
  while (low <= high)
  {
    mid = (high + low) >> 1;
    bmp = map->ent[mid].bmp;
    if (ucs4 == bmp)
      return (FT_ULong) map->ent[mid].encode;
    if (ucs4 < bmp)
      high = mid - 1;
    else
      low = mid + 1;
  }
  return ~0;
}

FcChar32
FcFreeTypePrivateToUcs4 (FcChar32 private, const FcCharMap *map)
{
  int i;

  for (i = 0; i < map->nent; i++)
    if (map->ent[i].encode == private)
      return (FcChar32) map->ent[i].bmp;
  return ~0;
}

const FcCharMap *
FcFreeTypeGetPrivateMap (FT_Encoding encoding) {
    int i;

    for (i = 0; i < NUM_DECODE; i++)
        if (fcFontDecoders[i].encoding == encoding)
            return fcFontDecoders[i].map;
    return 0;
}

#include "../fc-glyphname/fcglyphname.h"

static FcChar32
FcHashGlyphName (const FcChar8 *name) {
    FcChar32 h = 0;
    FcChar8 c;

    while ((c = *name++))
        h = ((h << 1) | (h >> 31)) ^ c;
    return h;
}

#if HAVE_FT_HAS_PS_GLYPH_NAMES
/*
 * Use Type1 glyph names for fonts which have reliable names
 * and which export an Adobe Custom mapping
 */
static FcBool
FcFreeTypeUseNames (FT_Face face) {
    FT_Int  map;
    if (!FT_Has_PS_Glyph_Names (face))
        return FcFalse;
    for (map = 0; map < face->num_charmaps; map++)
        if (face->charmaps[map]->encoding == ft_encoding_adobe_custom)
            return FcTrue;
    return FcFalse;
}

static const FcChar8 *
FcUcs4ToGlyphName (FcChar32 ucs4) {
    int i = (int) (ucs4 % FC_GLYPHNAME_HASH);
    return 0;
}
FcGlyphId gn;

while ((gn = _fc_ucs_to_name[i]) != -1) {
    if (_fc_glyph_names[gn].ucs == ucs4)
        return _fc_glyph_names[gn].name;
    if (!r)
        r = (int) (ucs4 % FC_GLYPHNAME_REHASH);
    if (!r)
        r = 1;
    i += r;
    if (i >= FC_GLYPHNAME_HASH)
        i -= FC_GLYPHNAME_HASH;
}
return 0;

static FcChar32
FcGlyphNameToUcs4 (FcChar8 *name)
{
    FcChar32 h = FcHashGlyphName (name);
    int i = (int) (h % FC_GLYPHNAME_HASH);
    int r = 0;
    FcGlyphId gn;

    while ((gn = _fc_name_to_ucs[i]) != -1) {
        if (!strcmp ((char *) name, (char *) _fc_glyph_names[gn].name))
            return _fc_glyph_names[gn].ucs;
        if (!r)
            r = (int) (h % FC_GLYPHNAME_REHASH);
        if (!r)
            r = 1;
        i += r;
        if (i >= FC_GLYPHNAME_HASH)
            i -= FC_GLYPHNAME_HASH;
    }
    return 0xffff;
}

/*
 * Work around a bug in some FreeType versions which fail
 * to correctly bounds check glyph name buffers and overwrite
 * the stack. As Postscript names have a limit of 127 characters,
* this should be sufficient.

/*

#if FC_GLYPHNAME_MAXLEN < 127
#define FC_GLYPHNAME_BUFLEN 127
#else
#define FC_GLYPHNAME_BUFLEN FC_GLYPHNAME_MAXLEN
#endif

/*
 * Search through a font for a glyph by name.  This is
 * currently a linear search as there doesn't appear to be
 * any defined order within the font
 */
static FT_UInt
FcFreeTypeGlyphNameIndex (FT_Face face, const FcChar8 *name)
{
    FT_UInt gindex;
    FcChar8 name_buf[FC_GLYPHNAME_BUFLEN + 2];

    for (gindex = 0; gindex < (FT_UInt) face->num_glyphs; gindex++)
    {
        if (FT_Get_Glyph_Name (face, gindex, name_buf, FC_GLYPHNAME_BUFLEN+1) == 0)
            if (!strcmp ((char *) name, (char *) name_buf))
                return gindex;
    }
    return 0;
}
#endif

/*
 * Map a UCS4 glyph to a glyph index.  Use all available encoding
 * tables to try and find one that works.  This information is expected
 * to be cached by higher levels, so performance isn't critical
 */

FT_UInt
FcFreeTypeCharIndex (FT_Face face, FcChar32 ucs4)
{
    int initial, offset, decode;
    FT_UInt glyphindex;
    FcChar32 charcode;
    int p;

    initial = 0;

    if (!face)
        return 0;
/*
 * Find the current encoding
 */
if (face->charmap)
{
for (; initial < NUM_DECODE; initial++)
    if (fcFontDecoders[initial].encoding == face->charmap->encoding)
        break;
if (initial == NUM_DECODE)
    initial = 0;
}  
for (p = 0; p < NUM_PREFER_UNICODE; p++)
if (ucs4 == prefer_unicode[p])
{
    initial = 0;
    break;
}
/*
 * Check each encoding for the glyph, starting with the current one
 */
for (offset = 0; offset < NUM_DECODE; offset++)
{
    decode = (initial + offset) % NUM_DECODE;
    if (!face->charmap || face->charmap->encoding != fcFontDecoders[decode].encoding)
        if (FT_Select_Charmap (face, fcFontDecoders[decode].encoding) != 0)
            continue;
    if (fcFontDecoders[decode].map)
    {
        charcode = FcFreeTypeUcs4ToPrivate (ucs4, fcFontDecoders[decode].map);
        if (charcode == ~0U)
            continue;
    }
    else
        charcode = ucs4;
    glyphindex = FT_Get_Char_Index (face, (FT_ULong) charcode);
    if (glyphindex)
        return glyphindex;
}
#if HAVE_FT_HAS_PS_GLYPH_NAMES
/*
 * Check postscript name table if present
 */
if (FcFreeTypeUseNames (face))
{
    const FcChar8*name = FcUcs4ToGlyphName (ucs4);
    if (name)
    {
glyphindex = FcFreeTypeGlyphNameIndex (face, name);
if (glyphindex)
return glyphindex;
}
#endif
return 0;

static FcBool
FcFreeTypeCheckGlyph (FT_Face face, FcChar32 ucs4,
    FT_UInt glyph, FcBlanks *blanks,
    FT_Pos *advance,
    FcBool using_strike)
{
    FT_Int load_flags = FT_LOAD_IGNORE_GLOBAL_ADVANCE_WIDTH | FT_LOAD_NO_SCALE |
    FT_LOAD_NO_HINTING;
    FT_GlyphSlot slot;

    if (using_strike)
    load_flags &= ~FT_LOAD_NO_SCALE;

    /*
     * When using scalable fonts, only report those glyphs
     * which can be scaled; otherwise those fonts will
     * only be available at some sizes, and never when
     * transformed. Avoid this by simply reporting bitmap-only
     * glyphs as missing
     */
    if (face->face_flags & FT_FACE_FLAG_SCALABLE)
    load_flags |= FT_LOAD_NO_BITMAP;

    if (FT_Load_Glyph (face, glyph, load_flags))
    return FcFalse;

    slot = face->glyph;
    if (!glyph)
    return FcFalse;

    *advance = slot->metrics.horiAdvance;

    switch ((int) slot->format) {
        case ft_glyph_format_bitmap:
        /*
         * Bitmaps are assumed to be reasonable; if
         * this proves to be a rash assumption, this
         * code can be easily modified
         */
return FcTrue;
    case ft_glyph_format_outline:
        /*
         * Glyphs with contours are always OK
         */
        if (slot->outline.n_contours != 0)
            return FcTrue;
        /*
         * Glyphs with no contours are only OK if
         * they're members of the Blanks set specified
         * in the configuration. If blanks isn't set,
         * then allow any glyph to be blank
         */
        if (!blanks || FcBlanksIsMember (blanks, ucs4))
            return FcTrue;
        /* fall through ... */
        default:
        break;
    }
    return FcFalse;
}

#define APPROXIMATELY_EQUAL(x,y) (FC_ABS ((x) - (y)) <= FC_MAX (FC_ABS (x), FC_ABS (y)) / 33)

static FcCharSet *
FcFreeTypeCharSetAndSpacingForSize (FT_Face face, FcBlanks *blanks, int *spacing, FT_Int strike_index)
{
    FcChar32 page, off, ucs4;
    #ifdef CHECK
    FcChar32 font_max = 0;
    #endif
    FcCharSet *fcs;
    FcCharLeaf *leaf;
    const FcCharMap *map;
    int o;
    int i;
    FT_UInt glyph;
    FT_Pos advance, advance_one = 0, advance_two = 0;
    FcBool has_advance = FcFalse, fixed_advance = FcTrue, dual_advance = FcFalse;
    FcBool using_strike = FcFalse;

    fcs = FcCharSetCreate ();
    if (!fcs)
        goto bail0;

    #if HAVE_FT_SELECT_SIZE
    if (strike_index >= 0) {
        if (FT_Select_Size (face, strike_index) != FT_Err_Ok)
        return FcFalse;
    }
    #endif
goto bail1;
using_strike = FcTrue;
}
#endif

#ifdef CHECK
    printf ("Family %s style %s\n", face->family_name, face->style_name);
#endif
for (o = 0; o < NUM_DECODE; o++)
{
    if (FT_Select_Charmap (face, fcFontDecoders[o].encoding) != 0)
        continue;
    map = fcFontDecoders[o].map;
    if (map)
    {
        /*
         * Non-Unicode tables are easy; there's a list of all possible
         * characters
         */
        for (i = 0; i < map->nent; i++)
            {
            ucs4 = map->ent[i].bmp;
            glyph = FT_Get_Char_Index (face, map->ent[i].encode);
            if (glyph &&
                FcFreeTypeCheckGlyph (face, ucs4, glyph, blanks, &advance, using_strike))
                {
                    /*
                     * ignore glyphs with zero advance. They're
                     * combining characters, and while their behaviour
                     * isn't well defined for monospaced applications in
                     * Unicode, there are many fonts which include
                     * zero-width combining characters in otherwise
                     * monospaced fonts.
                     */
                    if (advance)
                        {
                        has_advance = FcTrue;
                        advance_one = advance;
                        }
                    else if (!APPROXIMATELY_EQUAL (advance, advance_one))
                        {
                        if (fixed_advance)
                            {
                            dual_advance = FcTrue;
                            fixed_advance = FcFalse;
                            advance_two = advance;
                            }
else if (!APPROXIMATELY_EQUAL (advance, advance_two))
dual_advance = FcFalse;
}
}

leaf = FcCharSetFindLeafCreate (fcs, ucs4);
if (!leaf)
goto bail1;

leaf->map[(ucs4 & 0xff) >> 5] |= (1 << (ucs4 & 0x1f));
#ifdef CHECK
if (ucs4 > font_max)
font_max = ucs4;
#endif
}
}
}
else
{
    page = ~0;
    leaf = NULL;
    ucs4 = FT_Get_First_Char (face, &glyph);
    while (glyph != 0)
    {
        if (FcFreeTypeCheckGlyph (face, ucs4, glyph, blanks, &advance, using_strike))
        {
            if (advance)
            {
                if (!has_advance)
                {
                    has_advance = FcTrue;
                    advance_one = advance;
                }
            }
        }
    }
    if ((ucs4 >> 8) != page)
    {
        page = ucs4;
        leaf = FcCharSetCreateFromAdvance (fcs, ucs4, &advance, &advance_one, &advance_two);
        if (leaf)
        {
            leaf->map[(ucs4 & 0xff) >> 5] |= (1 << (ucs4 & 0x1f));
            if (ucs4 > font_max)
            font_max = ucs4;
        }
    
else if (!APPROXIMATELY_EQUAL (advance, advance_one))
{
    if (fixed_advance)
    {
        dual_advance = FcTrue;
        fixed_advance = FcFalse;
        advance_two = advance;
    }
else if (!APPROXIMATELY_EQUAL (advance, advance_two))
dual_advance = FcFalse;
}
}

if ((ucs4 >> 8) != page)
{

}}
page = (ucs4 >> 8);
leaf = FcCharSetFindLeafCreate (fcs, ucs4);
if (!leaf)
    goto bail1;
}
off = ucs4 & 0xff;
leaf->map[off >> 5] |= (1 << (off & 0x1f));
#ifdef CHECK
    if (ucs4 > font_max)
font_max = ucs4;
#endif
}
ucs4 = FT_Get_Next_Char (face, ucs4, &glyph);
}
#ifdef CHECK
for (ucs4 = 0; ucs4 < 0x10000; ucs4++)
{
    FcBool FT_Has, FC_Has;
    FT_Has = FT_Get_Char_Index (face, ucs4) != 0;
    FC_Has = FcCharSetHasChar (fcs, ucs4);
    if (FT_Has != FC_Has)
    {
        printf ("0x%08x FT says %d FC says %d\n", ucs4, FT_Has, FC_Has);
    }
}
#endif
#else HAVE_FT_HAS_PS_GLYPH_NAMES
/*
 * Add mapping from PS glyph names if available
 */
if (FcFreeTypeUseNames (face))
{
    FcChar8 name_buf[FC_GLYPHNAME_BUflen + 2];

for (glyph = 0; glyph < (FT_UInt) face->num_glyphs; glyph++)
{
    if (FT_Get_Glyph_Name (face, glyph, name_buf, FC_GLYPHNAME_BUflen+1) == 0)
    {
        ucs4 = FcGlyphNameToUcs4 (name_buf);
        if (ucs4 != 0xffff && !has_advance)
            FcFreeTypeCheckGlyph (face, ucs4, glyph, blanks, &advance, using_strike);
    }
}
has_advance = FcTrue;
advance_one = advance;
else if (!APPROXIMATELY_EQUAL (advance, advance_one))
{
    if (fixed_advance)
    {
        dual_advance = FcTrue;
        fixed_advance = FcFalse;
        advance_two = advance;
    }
    else if (!APPROXIMATELY_EQUAL (advance, advance_two))
        dual_advance = FcFalse;
}
leaf = Fc CharSetFindLeafCreate (fcs, ucs4);
if (!leaf)
goto bail1;
leaf->map[(ucs4 & 0xff) >> 5] |= (1 << (ucs4 & 0x1f));
#ifdef CHECK
    if (ucs4 > font_max)
        font_max = ucs4;
#endif

for (ucs4 = 0; ucs4 <= font_max; ucs4++)
{
    FcBool has_char = (glyph = Fc FreeTypeCharIndex (face, ucs4)) != 0;
    FcBool has_bit = Fc CharSetHasChar (fcs, ucs4);
    if (has_char && !has_bit)
    {
        if (!Fc FreeTypeCheckGlyph (face, ucs4, glyph, blanks, &advance, using_strike))
            printf ("Bitmap missing broken char 0x%\x\n", ucs4);
        else
            printf ("Bitmap missing char 0x%\x\n", ucs4);
    }
    else if (!has_char && has_bit)
        printf ("Bitmap extra char 0x%\x\n", ucs4);
#endif
    if (fixed_advance)
*spacing = FC_MONO;
else if (dual_advance && APPROXIMATELY_EQUAL (2 * FC_MIN (advance_one, advance_two), FC_MAX
(advance_one, advance_two)))
    *spacing = FC_DUAL;
else
*spacing = FC_PROPORTIONAL;
return fcs;
}

FcCharSet *
FcFreeTypeCharSetAndSpacing (FT_Face face, FcBlanks *blanks, int *spacing)
{
    FcCharSet*cs;

    /*
    * Check for bitmap-only ttf fonts that are missing the glyf table.
    * In that case, pick a size and look for glyphs in that size instead
    */
    if (!(face->face_flags & FT_FACE_FLAG_SCALABLE) &&
        face->num_fixed_sizes > 0 &&
        FT_Get_Sfnt_Table (face, ft_sfnt_head))
    {
        FT_Int  strike_index = 0;
        int    i;

        /* Select the face closest to 16 pixels tall */
        for (i = 1; i < face->num_fixed_sizes; i++) {
            if (abs (face->available_sizes[i].height - 16) <
                abs (face->available_sizes[strike_index].height - 16))
                strike_index = i;
        }
        cs = FcFreeTypeCharSetAndSpacingForSize (face, blanks, spacing, strike_index);
    }
    else
    cs = FcFreeTypeCharSetAndSpacingForSize (face, blanks, spacing, -1);
    return cs;
}

FcCharSet *
FcFreeTypeCharSet (FT_Face face, FcBlanks *blanks)
{
    int spacing;

    return FcFreeTypeCharSetAndSpacing (face, blanks, &spacing);
static void addtag(FcChar8 *complex_, FT_ULong tag)
{
    FcChar8 tagstring[OTLAYOUT_ID_LEN + 1];

    tagstring[0] = (FcChar8)(tag >> 24),
    tagstring[1] = (FcChar8)(tag >> 16),
    tagstring[2] = (FcChar8)(tag >>  8),
    tagstring[3] = (FcChar8)(tag),
    tagstring[4] = '\0';

    /* skip tags which aren't alphanumeric, under the assumption that
     * they're probably broken
     */
    if (!FcIsValidScript(tagstring[0]) ||
        !FcIsValidScript(tagstring[1]) ||
        !FcIsValidScript(tagstring[2]) ||
        !FcIsValidScript(tagstring[3]))
        return;

    if (*complex_ != '\0')
        strcat ((char *) complex_, " ");
    strcat ((char *) complex_, OTLAYOUT_HEAD);
    strcat ((char *) complex_, (char *) tagstring);
}

static int
compareulong (const void *a, const void *b)
{
    const FT_ULong *ua = (const FT_ULong *) a;
    const FT_ULong *ub = (const FT_ULong *) b;
    return *ua - *ub;
}

static int
GetScriptTags(FT_Face face, FT_ULong tabletag, FT_ULong **stags)
{
    FT_ULong cur_offset, new_offset, base_offset;
    FT_Stream stream = face->stream;
    FT_Error error;
    FT_UShort n, p;
    int script_count;

    if (!stream)
        return 0;

    if ((error = ftglue_face_goto_table(face, tabletag, stream)))
        return 0;

    base_offset = ftglue_stream_pos(stream);

    /* skip version */

    if (ftglue_stream_seek(stream, base_offset + 4L) || ftglue_stream_frame_enter(stream, 2L))
        return 0;

    new_offset = GET_UShort() + base_offset;

    ftglue_stream_frame_exit(stream);

    cur_offset = ftglue_stream_pos(stream);

    if (ftglue_stream_seek(stream, new_offset) != FT_Err_Ok)
        return 0;

    base_offset = ftglue_stream_pos(stream);

    if (ftglue_stream_frame_enter(stream, 2L))
        return 0;

    script_count = GET_UShort();

    ftglue_stream_frame_exit(stream);
*stags = malloc(script_count * sizeof (FT_ULong));
if (!stags)
return 0;

p = 0;
for (n = 0; n < script_count; n++)
{
    if (ftglue_stream_frame_enter(stream, 6L))
goto Fail;

(*stags)[p] = GET_ULong();
new_offset = GET_UShort() + base_offset;

ftglue_stream_frame_exit(stream);
cur_offset = ftglue_stream_pos(stream);
error = ftglue_stream_seek(stream, new_offset);

if (error == FT_Err_Ok)
p++;
}

(void)ftglue_stream_seek(stream, cur_offset);

if (!p)
goto Fail;

/* sort the tag list before returning it */
qsort(*stags, script_count, sizeof(FT_ULong), compareulong);

return script_count;

Fail:
    free(*stags);
    *stags = NULL;
    return 0;
}

static FcChar8 *
FcFontCapabilities(FT_Face face)
{
    FcBool issilgraphitefont = 0;
    FT_Error err;
    FT_ULong len = 0;
    FT_ULong *gsubtags=NULL, *gpostags=NULL;
    FT_UShort gsub_count=0, gpos_count=0;
    FT_ULong maxsize;
FcChar8 *complex_ = NULL;
int indx1 = 0, indx2 = 0;

err = FT_Load_Sfnt_Table(face, TTAG_SILF, 0, 0, &len);
issilgraphitefont = (err == FT_Err_Ok);

gpos_count = GetScriptTags(face, TTAG_GPOS, &gpostags);
gsub_count = GetScriptTags(face, TTAG_GSUB, &gsubtags);

if (!issilgraphitefont && !gsub_count && !gpos_count)
goto bail;

maxsize = (((FT_ULong) gpos_count + (FT_ULong) gsub_count) * OTLAYOUT_LEN +
           (issilgraphitefont ? 13 : 0));
complex_ = malloc (sizeof (FcChar8) * maxsize);
if (!complex_)
goto bail;

complex_[0] = '\0';
if (issilgraphitefont)
    strcpy((char *) complex_, "ttable:Silf ");

while ((indx1 < gsub_count) || (indx2 < gpos_count)) {
    if (indx1 == gsub_count) {
        addtag(complex_, gpostags[indx2]);
        indx2++;
    } else if ((indx2 == gsub_count) || (gsubtags[indx1] < gpostags[indx2])) {
        addtag(complex_, gsubtags[indx1]);
        indx1++;
    } else if (gsubtags[indx1] == gpostags[indx2]) {
        addtag(complex_, gsubtags[indx1]);
        indx1++;
        indx2++;
    } else {
        addtag(complex_, gpostags[indx2]);
        indx2++;
    }
}

if (FcDebug () & FC_DBG_SCANV)
    printf("complex_ features in this font: %s\n", complex_);
bail:
    free(gsubtags);
    free(gpostags);
    return complex_;
#include "fcftaliastail.h"
#undef __fcfreetype__
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*/

#include "fcint.h"
#include "fcarch.h"
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <dirent.h>
#include <string.h>
#include <sys/types.h>
#include <assert.h>
#if defined(HAVE_MMAP) || defined(__CYGWIN__)
  #include <unistd.h>
  #include <sys/mman.h>
#endif
#ifndef O_BINARY
#define O_BINARY 0
#endif

struct MD5Context {
  FcChar32 buf[4];
  FcChar32 bits[2];
  unsigned char in[64];
};

static void MD5Init(struct MD5Context *ctx);
static void MD5Update(struct MD5Context *ctx, const unsigned char *buf, unsigned len);
static void MD5Final(unsigned char digest[16], struct MD5Context *ctx);
static void MD5Transform(FcChar32 buf[4], FcChar32 in[16]);

#define CACHEBASE_LEN (1 + 32 + 1 + sizeof (FC_ARCHITECTURE) + sizeof (FC_CACHE_SUFFIX))

static FcBool
FcCacheIsMmapSafe (int fd)
{
  enum {
    MMAP_NOT_INITIALIZED = 0,
    MMAP_USE,
    MMAP_DONT_USE,
    MMAP_CHECK_FS,
  } status;
  static void *static_status;

  status = (intptr_t) fc_atomic_ptr_get (&static_status);
if (status == MMAP_NOT_INITIALIZED)
{
    const char *env = getenv("FONTCONFIG_USE_MMAP");
    FcBool use;
    if (env && FcNameBool((const FcChar8*) env, &use))
        status = use ? MMAP_USE : MMAP_DONT_USE;
    else
        status = MMAP_CHECK_FS;
    (void) fc_atomic_ptr_cmpexch(&static_status, NULL, (void *) status);
}

if (status == MMAP_CHECK_FS)
return FcIsFsMmapSafe(fd);
else
return status == MMAP_USE;

}

static const char bin2hex[] = {'0', '1', '2', '3', '4', '5', '6', '7',
'8', '9', 'a', 'b', 'c', 'd', 'e', 'f'};

static FcChar8 *
FcDirCacheBasename (const FcChar8 * dir, FcChar8 cache_base[CACHEBASE_LEN])
{
    unsigned char hash[16];
    FcChar8*hex_hash;
    int cnt;
    struct MD5Context ctx;

    MD5Init(&ctx);
    MD5Update(&ctx, (const unsigned char*)dir, strlen((const char*) dir));

    MD5Final(hash, &ctx);

    cache_base[0] = '/';
    hex_hash = cache_base + 1;
    for (cnt = 0; cnt < 16; ++cnt)
    {
        hex_hash[2*cnt] = bin2hex[hash[cnt] >> 4];
        hex_hash[2*cnt+1] = bin2hex[hash[cnt] & 0xf];
    }
    hex_hash[2*cnt] = 0;
    strcat((char*) cache_base, "\-" FC_ARCHITECTURE FC_CACHE_SUFFIX);

    return cache_base;
}
FcBool
FcDirCacheUnlink (const FcChar8 *dir, FcConfig *config)
{
    FcChar8*cache_hashed = NULL;
    FcChar8 cache_base[CACHEBASE_LEN];
    FcStrList*list;
    FcChar8*cache_dir;
    const FcChar8 *sysroot = FcConfigGetSysRoot (config);

    FcDirCacheBasename (dir, cache_base);

    list = FcStrListCreate (config->cacheDirs);
    if (!list)
        return FcFalse;

    while ((cache_dir = FcStrListNext (list)))
    {
        if (sysroot)
            cache_hashed = FcStrBuildFilename (sysroot, cache_dir, cache_base, NULL);
        else
            cache_hashed = FcStrBuildFilename (cache_dir, cache_base, NULL);

        if (!cache_hashed)
            break;

        (void) unlink ((char *) cache_hashed);
        FcStrFree (cache_hashed);
    }

    FcStrListDone (list);
    /* return FcFalse if something went wrong */
    if (cache_dir)
        return FcFalse;
    return FcTrue;
}

static int
FcDirCacheOpenFile (const FcChar8 *cache_file, struct stat *file_stat)
{
    int fd;

    #ifdef _WIN32
        if (FcStat (cache_file, file_stat) < 0)
            return -1;
    #endif
    fd = FcOpen((char *) cache_file, O_RDONLY | O_BINARY);
    if (fd < 0)
        return fd;
    #ifndef _WIN32
        if (fstat (fd, file_stat) < 0)
            return fd;
    #endif
    return fd;

    #ifdef _WIN32
        if (FcStat (cache_file, file_stat) < 0)
            return -1;
    #endif
    fd = FcOpen((char *) cache_file, O_RDONLY | O_BINARY);
    if (fd < 0)
        return fd;
    #ifndef _WIN32
        if (fstat (fd, file_stat) < 0)
            return fd;
    #endif

/*
* Look for a cache file for the specified dir. Attempt
* to use each one we find, stopping when the callback
* indicates success
*/

static FcBool
FcDirCacheProcess (FcConfig *config, const FcChar8 *dir,
                   FcBool (*callback) (int fd, struct stat *fd_stat,
                                  struct stat *dir_stat, void *closure),
                   void *closure, FcChar8 **cache_file_ret)
{
    int fd = -1;
    FcChar8 cache_base[CACHEBASE_LEN];
    FcStrList*list;
    FcChar8*cache_dir;
    struct stat file_stat, dir_stat;
    FcBool ret = FcFalse;

    if (FcStatChecksum (dir, &dir_stat) < 0)
        return FcFalse;

    FcDirCacheBasename (dir, cache_base);

    list = FcStrListCreate (config->cacheDirs);
    if (!list)
        return FcFalse;

    while ((cache_dir = FcStrListNext (list)))
    {
        const FcChar8 *sysroot = FcConfigGetSysRoot (config);
        FcChar8*cache_hashed;

        if (sysroot)
            cache_hashed = FcStrBuildFilename (sysroot, cache_dir, cache_base, NULL);
        else
            cache_hashed = FcStrBuildFilename (cache_dir, cache_base, NULL);

        if (!cache_hashed)
            break;

        fd = FcDirCacheOpenFile (cache_hashed, &file_stat);
        if (fd >= 0) {
ret = (*callback) (fd, &file_stat, &dir_stat, closure);
close (fd);
if (ret)
{
if (cache_file_ret)
    *cache_file_ret = cache_hashed;
else
    FcStrFree (cache_hashed);
break;
}
FcStrFree (cache_hashed);
FcStrListDone (list);
return ret;
}

#define FC_CACHE_MIN_MMAP   1024

/*
 * Skip list element, make sure the 'next' pointer is the last thing
 * in the structure, it will be allocated large enough to hold all
 * of the necessary pointers
 */
typedef struct _FcCacheSkip FcCacheSkip;

struct _FcCacheSkip {
    FcCache *cache;
    FcRef ref;
    intptr_t size;
    dev_t cache_dev;
    ino_t cache_ino;
    time_t cache_mtime;
    FcCacheSkip *next[1];
};

/*
 * The head of the skip list; pointers for every possible level
 * in the skip list, plus the largest level in the list
 */
#define FC_CACHE_MAX_LEVEL  16

/* Protected by cache_lock below */
static FcCacheSkip*fcCacheChains[FC_CACHE_MAX_LEVEL];
static int fcCacheMaxLevel;
static FcMutex *cache_lock;

static void
lock_cache (void)
{
    FcMutex *lock;
    retry:
    lock = fc_atomic_ptr_get (&cache_lock);
    if (!lock) {
        lock = (FcMutex *) malloc (sizeof (FcMutex));
        FcMutexInit (lock);
        if (!fc_atomic_ptr_cmpexch (&cache_lock, NULL, lock)) {
            FcMutexFinish (lock);
            goto retry;
        }
    }
    FcMutexLock (lock);
    /* Initialize random state */
    FcRandom ();
    return;
}
FcMutexLock (lock);

static void
unlock_cache (void)
{
    FcMutexUnlock (cache_lock);
}

static void
free_lock (void)
{
    FcMutex *lock;
    lock = fc_atomic_ptr_get (&cache_lock);
    if (lock && fc_atomic_ptr_cmpexch (&cache_lock, lock, NULL)) {
        FcMutexFinish (lock);
        free (lock);
    }
}


/*
 * Generate a random level number, distributed
 * so that each level is 1/4 as likely as the one before
 */
/*
 * Note that level numbers run 1 <= level <= MAX_LEVEL
 */

static int
random_level (void)
{
  /* tricky bit -- each bit is '1' 75% of the time */
  long int bits = FcRandom () | FcRandom ();
  intlevel = 0;

  while (++level < FC_CACHE_MAX_LEVEL)
  {
    if (bits & 1)
      break;
    bits >>= 1;
  }
  return level;
}

/*
 * Insert cache into the list
 */

static FcBool
FcCacheInsert (FcCache *cache, struct stat *cache_stat)
{
  FcCacheSkip **update[FC_CACHE_MAX_LEVEL];
  FcCacheSkip *s, **next;
  int i, level;

  lock_cache ();

  /*
   * Find links along each chain
   */
  next = fcCacheChains;
  for (i = fcCacheMaxLevel; --i >= 0; )
  {
    for (; (s = next[i]); next = s->next)
      if (s->cache > cache)
        break;
    update[i] = &next[i];
  }

  /*
   * Create new list element
   */
  level = random_level ();
  if (level > fcCacheMaxLevel)
level = fcCacheMaxLevel + 1;
update[fcCacheMaxLevel] = &fcCacheChains[fcCacheMaxLevel];
fcCacheMaxLevel = level;
}

s = malloc (sizeof (FcCacheSkip) + (level - 1) * sizeof (FcCacheSkip *));
if (!s)
return FcFalse;

s->cache = cache;
s->size = cache->size;
FcRefInit (&s->ref, 1);
if (cache_stat)
{
s->cache_dev = cache_stat->st_dev;
s->cache_ino = cache_stat->st_ino;
s->cache_mtime = cache_stat->st_mtime;
}
else
{
    s->cache_dev = 0;
s->cache_ino = 0;
s->cache_mtime = 0;
}

/*
 * Insert into all fcCacheChains
 */
for (i = 0; i < level; i++)
{
s->next[i] = *update[i];
*update[i] = s;
}

unlock_cache();
return FcTrue;

static FcCacheSkip *
FcCacheFindByAddrUnlocked (void *object)
{
    int i;
    FcCacheSkip **next = fcCacheChains;
    FcCacheSkip *s;

    if (!object)
        return NULL;

    for (i = 0; i < level; i++)
    {
        s->next[i] = *next;
        *next = s;
    }

    return s;
}
/*
 * Walk chain pointers one level at a time
 */
for (i = fcCacheMaxLevel; --i >= 0;)
while (next[i] && (char *) object >= ((char *) next[i]->cache + next[i]->size))
    next = next[i]->next;
/*
 * Here we are
 */
s = next[0];
if (s && (char *) object < ((char *) s->cache + s->size))
    return s;
return NULL;
}

static FcCacheSkip *
FcCacheFindByAddr (void *object)
{
    FcCacheSkip *ret;
    lock_cache ();
    ret = FcCacheFindByAddrUnlocked (object);
    unlock_cache ();
    return ret;
}

static void
FcCacheRemoveUnlocked (FcCache *cache)
{
    FcCacheSkip **update[FC_CACHE_MAX_LEVEL];
    FcCacheSkip *s, **next;
    int i;

    /*
     * Find links along each chain
     */
    next = fcCacheChains;
    for (i = fcCacheMaxLevel; --i >= 0; )
    {
        for (; (s = next[i]); next = s->next)
            if (s->cache >= cache)
                break;
        update[i] = &next[i];
    }
    s = next[0];
    for (i = 0; i < fcCacheMaxLevel && *update[i] == s; i++)
        *update[i] = s->next[i];
    while (fcCacheMaxLevel > 0 && fcCacheChains[fcCacheMaxLevel - 1] == NULL)
static FcCache *
FcCacheFindByStat (struct stat *cache_stat)
{
    FcCacheSkip *s;

    lock_cache ();
    for (s = fcCacheChains[0]; s; s = s->next[0])
        if (s->cache_dev == cache_stat->st_dev &&
            s->cache_ino == cache_stat->st_ino &&
            s->cache_mtime == cache_stat->st_mtime)
        {
            FcRefInc (&s->ref);
            unlock_cache ();
            return s->cache;
        }
    unlock_cache ();
    return NULL;
}

static void
FcDirCacheDisposeUnlocked (FcCache *cache)
{
    FcCacheRemoveUnlocked (cache);

    switch (cache->magic) {
        case FC_CACHE_MAGIC_ALLOC:
            free (cache);
            break;
        case FC_CACHE_MAGIC_MMAP:
            #if defined(HAVE_MMAP) || defined(__CYGWIN__)
                munmap (cache, cache->size);
            #elif defined(_WIN32)
                UnmapViewOfFile (cache);
            #endif
            break;
    }
}

void
FcCacheObjectReference (void *object)
{
    FcCacheSkip *skip = FcCacheFindByAddr (object);

    if (skip)
FcRefInc (&skip->ref);
}

void
FcCacheObjectDereference (void *object)
{
    FcCacheSkip*skip;

    lock_cache ();
    skip = FcCacheFindByAddrUnlocked (object);
    if (skip)
        if (FcRefDec (&skip->ref) == 1)
            FcDirCacheDisposeUnlocked (skip->cache);
    unlock_cache ();
}

void
FcCacheFini (void)
{
    int i;

    for (i = 0; i < FC_CACHE_MAX_LEVEL; i++)
        assert (fcCacheChains[i] == NULL);
    assert (fcCacheMaxLevel == 0);

    free_lock ();
}

static FcBool
FcCacheTimeValid (FcCache *cache, struct stat *dir_stat)
{
    struct stat statdir_static;

    if (!dir_stat)
        if (FcStatChecksum (FcCacheDir (cache), &statdir_static) < 0)
            return FcFalse;
        dir_stat = &statdir_static;

    if (FcDebug () & FC_DBG_CACHE)
        printf ("FcCacheTimeValid dir "%#s" cache checksum %d dir checksum %d
", FcCacheDir (cache), cache->checksum, (int) dir_stat->st_mtime);
    return cache->checksum == (int) dir_stat->st_mtime;
}
* Map a cache file into memory

 */
static FcCache *
FcDirCacheMapFd (int fd, struct stat *fd_stat, struct stat *dir_stat)
{
    FcCache*cache;
    FcBoolallocated = FcFalse;

    if (fd_stat->st_size < (int) sizeof (FcCache))
        return NULL;
    cache = FcCacheFindByStat (fd_stat);
    if (cache)
        if (FcCacheTimeValid (cache, dir_stat))
            return cache;
    FcDirCacheUnload (cache);
    cache = NULL;
}

/*
 * Large cache files are mmap'ed, smaller cache files are read. This
 * balances the system cost of mmap against per-process memory usage.
 */
if (FcCacheIsMmapSafe (fd) && fd_stat->st_size >= FC_CACHE_MIN_MMAP)
{
    #if defined(HAVE_MMAP) || defined(__CYGWIN__)
    cache = mmap (0, fd_stat->st_size, PROT_READ, MAP_SHARED, fd, 0);
    #ifdef HAVE_POSIX_FADVISE
    posix_fadvise (fd, 0, fd_stat->st_size, POSIX_FADV_WILLNEED);
    #endif
    if (cache == MAP_FAILED)
        cache = NULL;
    #elif defined(_WIN32)
    {
        HANDLE hFileMap;
        cache = NULL;
        hFileMap = CreateFileMapping((HANDLE) _get_osfhandle(fd), NULL,
PAGE_READONLY, 0, 0, NULL);
        if (hFileMap != NULL)
            { cache = MapViewOfFile (hFileMap, FILE_MAP_READ, 0, 0,
                fd_stat->st_size);
            CloseHandle (hFileMap);
            }
    #endif
}
if (!cache)
{
    cache = malloc (fd_stat->st_size);
    if (!cache)
        return NULL;

    if (read (fd, cache, fd_stat->st_size) != fd_stat->st_size)
    {
        free (cache);
        return NULL;
    }
    allocated = FcTrue;
}
    if (cache->magic != FC_CACHE_MAGIC_MMAP ||
    cache->version < FC_CACHE_CONTENT_VERSION ||
    cache->size != (intptr_t) fd_stat->st_size ||
    !FcCacheTimeValid (cache, dir_stat) ||
    !FcCacheInsert (cache, fd_stat))
    {
        if (allocated)
            free (cache);
        else
        {
#if defined(HAVE_MMAP) || defined(__CYGWIN__)
            munmap (cache, fd_stat->st_size);
#else defined(_WIN32)
            UnmapViewOfFile (cache);
#endif
        }
        return NULL;
    }
/* Mark allocated caches so they're freed rather than unmapped */
    if (allocated)
        cache->magic = FC_CACHE_MAGIC_ALLOC;

    return cache;
}

void
FcDirCacheReference (FcCache *cache, int nref)
{
    FcCacheSkip *skip = FcCacheFindByAddr (cache);
    if (skip)
        FcRefAdd (&skip->ref, nref);
}
void
FcDirCacheUnload (FcCache *cache)
{
    FcCacheObjectDereference (cache);
}

static FcBool
FcDirCacheMapHelper (int fd, struct stat *fd_stat, struct stat *dir_stat, void *closure)
{
    FcCache *cache = FcDirCacheMapFd (fd, fd_stat, dir_stat);

    if (!cache)
        return FcFalse;
    *((FcCache **) closure) = cache;
    return FcTrue;
}

FcCache *
FcDirCacheLoad (const FcChar8 *dir, FcConfig *config, FcChar8 **cache_file)
{
    FcCache *cache = NULL;

    if (!FcDirCacheProcess (config, dir,
                FcDirCacheMapHelper,
                &cache, cache_file))
        return NULL;
    return cache;
}

FcCache *
FcDirCacheLoadFile (const FcChar8 *cache_file, struct stat *file_stat)
{
    int fd;
    FcCache *cache;
    struct stat my_file_stat;

    if (!file_stat)
        file_stat = &my_file_stat;
    fd = FcDirCacheOpenFile (cache_file, file_stat);
    if (fd < 0)
        return NULL;
    cache = FcDirCacheMapFd (fd, file_stat, NULL);
    close (fd);
    return cache;
}

/*@ 
* Validate a cache file by reading the header and checking
* the magic number and the size field
*/

static FcBool
FcDirCacheValidateHelper (int fd, struct stat *fd_stat, struct stat *dir_stat, void *closure FC_UNUSED)
{
    FcBool ret = FcTrue;
    FcCache c;

    if (read (fd, &c, sizeof (FcCache)) != sizeof (FcCache))
        ret = FcFalse;
    else if (c.magic != FC_CACHE_MAGIC_MMAP)
        ret = FcFalse;
    else if (c.version < FC_CACHE_CONTENT_VERSION)
        ret = FcFalse;
    else if (fd_stat->st_size != c.size)
        ret = FcFalse;
    else if (c.checksum != (int) dir_stat->st_mtime)
        ret = FcFalse;
    return ret;
}

static FcBool
FcDirCacheValidConfig (const FcChar8 *dir, FcConfig *config)
{
    return FcDirCacheProcess (config, dir,
                                FcDirCacheValidateHelper,
                                NULL, NULL);
}

FcBool
FcDirCacheValid (const FcChar8 *dir)
{
    FcConfig*config;

    config = FcConfigGetCurrent ();
    if (!config)
        return FcFalse;

    return FcDirCacheValidConfig (dir, config);
}

/*
 * Build a cache structure from the given contents
 */

FcCache *
FcDirCacheBuild (FcFontSet *set, const FcChar8 *dir, struct stat *dir_stat, FcStrSet *dirs)
{
    FcSerialize*serialize = FcSerializeCreate ();

FcCache *cache;
int i;
FcChar8*dir_serialize;
intptr_t*dirs_serialize;
FcFontSet*set_serialize;

if (!serialize)
return NULL;
/
* Space for cache structure
/*/  
FcSerializeReserve (serialize, sizeof (FcCache));
/*/  
* Directory name
/*/  
if (!FcStrSerializeAlloc (serialize, dir))
goto bail1;
/*/  
* Subdirs
/*/  
FcSerialize Alloc (serialize, dirs->num * sizeof (FcChar8 *));
for (i = 0; i < dirs->num; i++)
if (!FcStrSerializeAlloc (serialize, dirs->strs[i]))
goto bail1;
/*/  
* Patterns
/*/  
if (!FcFontSetSerializeAlloc (serialize, set))
goto bail1;
/*  
* Serialize layout complete. Now allocate space and fill it */
cache = malloc (serialize->size);
if (!cache)
return NULL;
/* shut up valgrind */
memset (cache, 0, serialize->size);

serialize->linear = cache;

cache->magic = FC_CACHE_MAGICALLOC;
cache->version = FC_CACHE_CONTENT_VERSION;
cache->size = serialize->size;
cache->checksum = (int) dir_stat->st_mtime;
/*  
* Serialize directory name
/*/
dir_serialize = FcStrSerialize (serialize, dir);
if (!dir_serialize)
goto bail2;
cache->dir = FcPtrToOffset (cache, dir_serialize);

/*
 * Serialize sub dirs
 */
dirs_serialize = FcSerializePtr (serialize, dirs);
if (!dirs_serialize)
goto bail2;
cache->dirs = FcPtrToOffset (cache, dirs_serialize);
cache->dirs_count = dirs->num;
for (i = 0; i < dirs->num; i++)
{
FcChar8 *d_serialize = FcStrSerialize (serialize, dirs->strs[i]);
if (!d_serialize)
goto bail2;
dirs_serialize[i] = FcPtrToOffset (dirs_serialize, d_serialize);
}

/*
 * Serialize font set
 */
set_serialize = FcFontSetSerialize (serialize, set);
if (!set_serialize)
goto bail2;
cache->set = FcPtrToOffset (cache, set_serialize);

FcSerializeDestroy (serialize);

FcCacheInsert (cache, NULL);

return cache;

bail2:
free (cache);
bail1:
FcSerializeDestroy (serialize);
return NULL;
}

/* write serialized state to the cache file */
FcBool
FcDirCacheWrite (FcCache *cache, FcConfig *config)
{
FcChar8 *dir = FcCacheDir (cache);
FcChar8 cache_base[CACHEBASE_LEN]:

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FcChar8  *cache_hashed;
int   fd;
FcAtomic  *atomic;
FcStrList  *list;
FcChar8  *cache_dir = NULL;
FcChar8  *test_dir, *d = NULL;
FcCacheSkip  *skip;
struct stat  cache_stat;
unsigned int  magic;
int   written;
const FcChar8  *sysroot = FcConfigGetSysRoot (config);

/*
 * Write it to the first directory in the list which is writable
 */

list = FcStrListCreate (config->cacheDirs);
if (!list)
    return FcFalse;
while ((test_dir = FcStrListNext (list)))
{
    if (d)
        FcStrFree (d);
    if (sysroot)
        d = FcStrBuildFilename (sysroot, test_dir, NULL);
    else
        d = FcStrCopyFilename (test_dir);
    if (access ((char *) d, W_OK) == 0)
    {
        cache_dir = FcStrCopyFilename (d);
        break;
    }
    else
    {
        /*
         * If the directory doesn't exist, try to create it
         */
        if (access ((char *) d, F_OK) == -1) {
            if (FcMakeDirectory (d))
            {
                cache_dir = FcStrCopyFilename (d);
                /* Create CACHEDIR.TAG */
                FcDirCacheCreateTagFile (d);
                break;
            }
        }
    }
}
* Otherwise, try making it writable
*/
else if (chmod ((char *) d, 0755) == 0)
{
    cache_dir = FcStrCopyFilename (d);
    /* Try to create CACHEDIR.TAG too */
    FcDirCacheCreateTagFile (d);
    break;
}
}

if (d)
FcStrFree (d);
FcStrListDone (list);
if (!cache_dir)
    return FcFalse;

FcDirCacheBasename (dir, cache_base);
    cache_hashed = FcStrBuildFilename (cache_dir, cache_base, NULL);
if (!cache_hashed)
    return FcFalse;

FcStrFree (cache_dir);

if (FcDebug () & FC_DBG_CACHE)
    printf("FcDirCacheWriteDir dir \"%s\" file \"%s\n\n", dir, cache_hashed);

    atomic = FcAtomicCreate ((FcChar8 *)cache_hashed);
    if (!atomic)
        goto bail1;

    if (!FcAtomicLock (atomic))
        goto bail3;

    fd = FcOpen((char *)FcAtomicNewFile (atomic), O_RDWR | O_CREAT | O_BINARY, 0666);
    if (fd == -1)
        goto bail4;

    /* Temporarily switch magic to MMAP while writing to file */
    magic = cache->magic;
    if (magic != FC_CACHE_MAGIC_MMAP)
        cache->magic = FC_CACHE_MAGIC_MMAP;

    /*
     * Write cache contents to file
     */
    written = write (fd, cache, cache->size);
/* Switch magic back */
if (magic != FC_CACHE_MAGIC_MMAP)
cache->magic = magic;

if (written != cache->size)
{
    perror("write cache");
goto bail5;
}

close(fd);
if (!FcAtomicReplaceOrig(atomic))
goto bail4;

/* If the file is small, update the cache chain entry such that the
 * new cache file is not read again. If it's large, we don't do that
 * such that we reload it, using mmap, which is shared across processes.
 */
if (cache->size < FC_CACHE_MIN_MMAP && FcStat (cache_hashed, &cache_stat))
{
    lock_cache ();
    if ((skip = FcCacheFindByAddrUnlocked (cache)))
    {
        skip->cache_dev = cache_stat.st_dev;
        skip->cache_ino = cache_stat.st_ino;
        skip->cache_mtime = cache_stat.st_mtime;
    }
    unlock_cache ();
}

FcStrFree (cache_hashed);
FcAtomicUnlock (atomic);
FcAtomicDestroy (atomic);
return FcTrue;

bail5:
    close (fd);

bail4:
    FcAtomicUnlock (atomic);

bail3:
    FcAtomicDestroy (atomic);

bail1:
    FcStrFree (cache_hashed);
    return FcFalse;
}

FcBool
FcDirCacheClean (const FcChar8 *cache_dir, FcBool verbose)
{
DIR*d;
struct dirent *ent;
FcChar8*dir;
FcBoolret = FcTrue;
FcBoolremove;
FcCache*cache;
struct stattarget_stat;
const FcChar8 *sysroot;
/* FIXME: this API needs to support non-current FcConfig */
sysroot = FcConfigGetSysRoot (NULL);
if (sysroot)
dir = FcStrBuildFilename (sysroot, cache_dir, NULL);
else
dir = FcStrCopyFilename (cache_dir);
if (!dir)
{
fprintf (stderr, "Fontconfig error: %s: out of memory\n", cache_dir);
return FcFalse;
}
if (access ((char *) dir, W_OK) != 0)
{
if (verbose || FcDebug () & FC_DBG_CACHE)
printf ("%s: not cleaning %s cache directory\n", dir,
access ((char *) dir, F_OK) == 0 ? "unwritable" : "non-existent");
goto bail0;
}
if (verbose || FcDebug () & FC_DBG_CACHE)
printf ("%s: cleaning cache directory\n", dir);
d = opendir ((char *) dir);
if (!d)
{
perror ((char *) dir);
ret = FcFalse;
goto bail0;
}
while ((ent = readdir (d)))
{
FcChar8*file_name;
const FcChar8*target_dir;
if (ent->d_name[0] == '.')
continue;
/* skip cache files for different architectures and */
/* files which are not cache files at all */
if (strlen(ent->d_name) != 32 + strlen ("-" FC_ARCHITECTURE FC_CACHE_SUFFIX) ||
strcmp(ent->d_name + 32, "-" FC_ARCHITECTURE FC_CACHE_SUFFIX))

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continue;

file_name = FcStrBuildFilename (dir, (FcChar8 *)ent->d_name, NULL);
if (!file_name)
{
    fprintf (stderr, "Fontconfig error: %s: allocation failure\n", dir);
    ret = FcFalse;
    break;
}
remove = FcFalse;
cache = FcDirCacheLoadFile (file_name, NULL);
if (!cache)
{
    if (verbose || FcDebug () & FC_DBG_CACHE)
        printf ("%s: invalid cache file: %s\n", dir, ent->d_name);
    remove = FcTrue;
}
else
{
    target_dir = FcCacheDir (cache);
    if (stat ((char *) target_dir, &target_stat) < 0)
    {
        if (verbose || FcDebug () & FC_DBG_CACHE)
            printf ("%s: %s: missing directory: %s\n", dir, ent->d_name, target_dir);
        remove = FcTrue;
    }
    FcDirCacheUnload (cache);
}
if (remove)
{
    if (unlink ((char *) file_name) < 0)
    {
        perror ((char *) file_name);
        ret = FcFalse;
    }
}
FcStrFree (file_name);
}
closedir (d);
bail0:
FcStrFree (dir);

return ret;
}
* Hokey little macro trick to permit the definitions of C functions
* with the same name as CPP macros
*/
#define args1(x)  (x)
#define args2(x,y)  (x,y)

cost FcChar8 *
FcCacheDir args1(const FcCache *c)
{
    return FcCacheDir (c);
}

FcFontSet *
FcCacheCopySet args1(const FcCache *c)
{
    FcFontSet*old = FcCacheSet (c);
    FcFontSet*new = FcFontSetCreate ();
    int i;
    if (!new)
        return NULL;
    for (i = 0; i < old->nfont; i++)
    {
        FcPattern  *font = FcFontSetFont (old, i);
        FcPatternReference (font);
        if (!FcFontSetAdd (new, font))
        {
            FcFontSetDestroy (new);
            return NULL;
        }
    }
    return new;
}

const FcChar8 *
FcCacheSubdir args2(const FcCache *c, int i)
{
    return FcCacheSubdir (c, i);
}

int
FcCacheNumSubdir args1(const FcCache *c)
{
    return c->dirs_count;
}

int
FcCacheNumFont args1(const FcCache *c)
{
    return FcCacheSet(c)->nfont;
}

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

#ifndef HIGHFIRST
#define byteReverse(buf, len) /* Nothing */
#else
/*
 * Note: this code is harmless on little-endian machines.
 */
void byteReverse(unsigned char *buf, unsigned longs)
{
    FcChar32 t;
    do {
        t = (FcChar32) ((unsigned) buf[3] << 8 | buf[2]) << 16 |
            ((unsigned) buf[1] << 8 | buf[0]);
        *(FcChar32 *) buf = t;
        buf += 4;
    } while (--longs);
}
#endif

/*
 * Start MD5 accumulation. Set bit count to 0 and buffer to mysterious
 * initialization constants.
 */
static void MD5Init(struct MD5Context *ctx)
{
    ctx->buf[0] = 0x67452301;
    ctx->buf[1] = 0xefcdab89;
ctx->buf[2] = 0x98badcfe;
ctx->buf[3] = 0x10325476;

ctx->bits[0] = 0;
ctx->bits[1] = 0;
}

/*
 * Update context to reflect the concatenation of another buffer full
 * of bytes.
 */
static void MD5Update(struct MD5Context *ctx, const unsigned char *buf, unsigned len)
{
    FcChar32 t;

    /* Update bitcount */
    t = ctx->bits[0];
    if (ctx->bits[0] = t + ((FcChar32) len << 3) < t)
        ctx->bits[1]++;

    /* Carry from low to high */
    ctx->bits[1] += len >> 29;

    t = (t >> 3) & 0x3f;

    /* Handle any leading odd-sized chunks */
    if (t)
    {
        unsigned char *p = (unsigned char *) ctx->in + t;

        t = 64 - t;
        if (len < t)
        {
            memcpy(p, buf, len);
            return;
        }
        memcpy(p, buf, t);
        byteReverse(ctx->in, 16);
        MD5Transform(ctx->buf, (FcChar32 *) ctx->in);
        buf += t;
        len -= t;
    }
    /* Process data in 64-byte chunks */

    while (len >= 64) {
        memcpy(ctx->in, buf, 64);
        byteReverse(ctx->in, 16);
        MD5Transform(ctx->buf, (FcChar32 *) ctx->in);
        buf += 64;
        len -= 64;
*/ Handle any remaining bytes of data. */

memcpy(ctx->in, buf, len);

*/
* Final wrapup - pad to 64-byte boundary with the bit pattern
* 1 0* (64-bit count of bits processed, MSB-first)
*/
static void MD5Final(unsigned char digest[16], struct MD5Context *ctx)
{
    unsigned count;
    unsigned char *p;

    /* Compute number of bytes mod 64 */
    count = (ctx->bits[0] >> 3) & 0x3F;

    /* Set the first char of padding to 0x80.  This is safe since there is
     always at least one byte free */
    p = ctx->in + count;
    *p++ = 0x80;

    /* Bytes of padding needed to make 64 bytes */
    count = 64 - 1 - count;

    /* Pad out to 56 mod 64 */
    if (count < 8) {
        /* Two lots of padding: Pad the first block to 64 bytes */
        memset(p, 0, count);
        byteReverse(ctx->in, 16);
        MD5Transform(ctx->buf, (FcChar32 *) ctx->in);

        /* Now fill the next block with 56 bytes */
        memset(ctx->in, 0, 56);
    } else {
        /* Pad block to 56 bytes */
        memset(p, 0, count - 8);
    }
    byteReverse(ctx->in, 14);

    /* Append length in bits and transform */
    ((FcChar32 *) ctx->in)[14] = ctx->bits[0];
    ((FcChar32 *) ctx->in)[15] = ctx->bits[1];

    MD5Transform(ctx->buf, (FcChar32 *) ctx->in);
    byteReverse((unsigned char *) ctx->buf, 4);
memcpy(digest, ctx->buf, 16);
memset(ctx, 0, sizeof(*ctx)); /* In case it’s sensitive */
}

/* The four core functions - F1 is optimized somewhat */

/* #define F1(x, y, z) (x & y | ~x & z) */
#define F1(x, y, z) (z ^ (x & (y ^ z)))
#define F2(x, y, z) F1(z, x, y)
#define F3(x, y, z) (x ^ y ^ z)
#define F4(x, y, z) (y ^ (x | ~z))

/* This is the central step in the MD5 algorithm. */
#define MD5STEP(f, w, x, y, z, data, s) 
  ( w += f(x, y, z) + data,  w = w<<s | w>>(32-s),  w += x )

/* * The core of the MD5 algorithm, this alters an existing MD5 hash to
* reflect the addition of 16 longwords of new data. MD5Update blocks
* the data and converts bytes into longwords for this routine.
*/
static void MD5Transform(FcChar32 buf[4], FcChar32 in[16])
{
  register FcChar32 a, b, c, d;

  a = buf[0];
  b = buf[1];
  c = buf[2];
  d = buf[3];

  MD5STEP(F1, a, b, c, d, in[0] + 0xd76aa478, 7);
  MD5STEP(F1, d, a, b, c, in[1] + 0xe8c7b756, 12);
  MD5STEP(F1, c, d, a, b, in[2] + 0x242070db, 17);
  MD5STEP(F1, b, c, d, a, in[3] + 0x8bdceee, 22);
  MD5STEP(F1, a, b, c, d, in[4] + 0xf57c0faf, 7);
  MD5STEP(F1, d, a, b, c, in[5] + 0x4787c62a, 12);
  MD5STEP(F1, c, d, a, b, in[6] + 0xa8304613, 17);
  MD5STEP(F1, b, c, d, a, in[7] + 0xfd469501, 22);
  MD5STEP(F1, a, b, c, d, in[8] + 0x698098d8, 7);
  MD5STEP(F1, d, a, b, c, in[9] + 0x8b44f7af, 12);
  MD5STEP(F1, c, d, a, b, in[10] + 0xff5bb1, 17);
  MD5STEP(F1, b, c, d, a, in[11] + 0x895cd7be, 22);
  MD5STEP(F1, a, b, c, d, in[12] + 0x6b901122, 7);
  MD5STEP(F1, d, a, b, c, in[13] + 0xfd987193, 12);
  MD5STEP(F1, c, d, a, b, in[14] + 0x679438e, 17);
  MD5STEP(F1, b, c, d, a, in[15] + 0x49b40821, 22);
MD5STEP(F2, a, b, c, d, in[1] + 0xf61e2562, 5);
MD5STEP(F2, d, a, b, c, in[6] + 0xc040b340, 9);
MD5STEP(F2, c, d, a, b, in[11] + 0x026e5a51, 14);
MD5STEP(F2, b, c, d, a, in[0] + 0xe9b6c7aa, 20);
MD5STEP(F2, a, b, c, d, in[5] + 0xd62f105d, 5);
MD5STEP(F2, d, a, b, c, in[10] + 0x02441453, 9);
MD5STEP(F2, c, d, a, b, in[15] + 0xda8a1e681, 14);
MD5STEP(F2, b, c, d, a, in[4] + 0xe7d3fbc8, 20);
MD5STEP(F2, a, b, c, d, in[9] + 0x21e1cde6, 5);
MD5STEP(F2, d, a, b, c, in[14] + 0xc33707d6, 9);
MD5STEP(F2, c, d, a, b, in[3] + 0xf4d50d87, 14);
MD5STEP(F2, b, c, d, a, in[8] + 0x455a14ed, 20);
MD5STEP(F2, a, b, c, d, in[13] + 0xa9e3e905, 5);
MD5STEP(F2, d, a, b, c, in[2] + 0xfcefa3f8, 9);
MD5STEP(F2, c, d, a, b, in[7] + 0x676f02d9, 14);
MD5STEP(F2, b, c, d, a, in[12] + 0x8d2a4c8a, 20);

MD5STEP(F3, a, b, c, d, in[5] + 0xfffa3942, 4);
MD5STEP(F3, d, a, b, c, in[8] + 0x8771f681, 11);
MD5STEP(F3, c, d, a, b, in[11] + 0x6d9d6122, 16);
MD5STEP(F3, b, c, d, a, in[14] + 0xfde5380c, 23);
MD5STEP(F3, a, b, c, d, in[1] + 0xa4b06ec4, 4);
MD5STEP(F3, d, a, b, c, in[4] + 0x46f0cfe9, 11);
MD5STEP(F3, c, d, a, b, in[7] + 0x6bb4b60, 16);
MD5STEP(F3, b, c, d, a, in[10] + 0xbefbfbe7, 23);
MD5STEP(F3, a, b, c, d, in[13] + 0xe8987e6, 4);
MD5STEP(F3, d, a, b, c, in[0] + 0xeaa127fa, 11);
MD5STEP(F3, c, d, a, b, in[3] + 0xda4ef3085, 16);
MD5STEP(F3, b, c, d, a, in[6] + 0x048810d5, 23);
MD5STEP(F3, a, b, c, d, in[9] + 0xc9d47d39, 4);
MD5STEP(F3, d, a, b, c, in[12] + 0xe6db99e5, 11);
MD5STEP(F3, c, d, a, b, in[15] + 0x1fa27cf8, 16);
MD5STEP(F3, b, c, d, a, in[2] + 0xc4ac5665, 23);

MD5STEP(F4, a, b, c, d, in[0] + 0xf4292244, 6);
MD5STEP(F4, d, a, b, c, in[7] + 0x432aff97, 10);
MD5STEP(F4, c, d, a, b, in[14] + 0xab9423a7, 15);
MD5STEP(F4, b, c, d, a, in[5] + 0xc93a039, 21);
MD5STEP(F4, a, b, c, d, in[12] + 0x655b59c3, 6);
MD5STEP(F4, d, a, b, c, in[3] + 0x8f0ccc92, 10);
MD5STEP(F4, c, d, a, b, in[10] + 0x0f0feff47d, 15);
MD5STEP(F4, b, c, d, a, in[1] + 0x85845dd1, 21);
MD5STEP(F4, a, b, c, d, in[8] + 0x6fa47c4f, 6);
MD5STEP(F4, d, a, b, c, in[15] + 0xe62ce6e0, 10);
MD5STEP(F4, c, d, a, b, in[6] + 0xa3014314, 15);
MD5STEP(F4, b, c, d, a, in[13] + 0xe0811a1, 21);
MD5STEP(F4, a, b, c, d, in[4] + 0x7537e82, 6);
MD5STEP(F4, d, a, b, c, in[11] + 0xbd3af235, 10);
MD5STEP(F4, c, d, a, b, in[2] + 0x2ad7d2bb, 15);
MD5STEP(F4, b, c, d, a, in[9] + 0xeb86d391, 21);

buf[0] += a;
buf[1] += b;
buf[2] += c;
buf[3] += d;

FcBool
FcDirCacheCreateTagFile (const FcChar8 *cache_dir)
{
    FcChar8*cache_tag;
    int fd;
    FILE*fp;
    FcAtomic*atomic;
    static const FcChar8 cache_tag_contents[] =
    "Signature: 8a477f597d28d172789f06888606bc55
    # This file is a cache directory tag created by fontconfig.
    # For information about cache directory tags, see:
    #       http://www.brynosaurus.com/cachedir/
    static size_t cache_tag_contents_size = sizeof (cache_tag_contents) - 1;
    FcBool ret = FcFalse;

    if (!cache_dir)
        return FcFalse;

    if (access ((char *) cache_dir, W_OK) == 0)
    {
        /* Create CACHEDIR.TAG */
        cache_tag = FcStrBuildFilename (cache_dir, "CACHEDIR.TAG", NULL);
        if (!cache_tag)
            return FcFalse;
        atomic = FcAtomicCreate ((FcChar8 *)cache_tag);
        if (!atomic)
            goto bail1;
        if (!FcAtomicLock (atomic))
            goto bail2;
        fd = FcOpen((char *)FcAtomicNewFile (atomic), O_RDWR | O_CREAT, 0644);
        if (fd == -1)
            goto bail3;
        fp = fdopen(fd, "wb");
        if (fp == NULL)
            goto bail3;
        fwrite(cache_tag_contents, cache_tag_contents_size, sizeof (FcChar8), fp);
        fclose(fp);
    }
if (!FcAtomicReplaceOrig(atomic))
    goto bail3;

ret = FcTrue;
bail3:
FcAtomicUnlock (atomic);
bail2:
FcAtomicDestroy (atomic);
bail1:
FcStrFree (cache_tag);
}

if (FcDebug () & FC_DBG_CACHE)
{
if (ret)
    printf ("Created CACHEDIR.TAG at %s\n", cache_dir);
else
    printf ("Unable to create CACHEDIR.TAG at %s\n", cache_dir);
}
return ret;
}

void
FcCacheCreateTagFile (const FcConfig *config)
{
FcChar8   *cache_dir = NULL, *d = NULL;
FcStrList *list;
const FcChar8 *sysroot = FcConfigGetSysRoot (config);

list = FcConfigGetCacheDirs (config);
if (!list)
    return;

while ((cache_dir = FcStrListNext (list)))
{
if (d)
    FcStrFree (d);
if (sysroot)
    d = FcStrBuildFilename (sysroot, cache_dir, NULL);
else
    d = FcStrCopyFilename (cache_dir);
if (FcDirCacheCreateTagFile (d))
    break;
if (d)
    FcStrFree (d);
FcStrListDone (list);


#define __fccache__
#include "fcalias2tail.h"
#undef __fccache__

1.34 freetype 2.5.5
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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

That's all there is to it!

1.36 fuse-lib 2.7.3
1.36.1 Available under license:
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Version 2, June 1991

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

Preamble

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

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on
the original authors' reputations.

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

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

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

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

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

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

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

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

   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.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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:7419585306aebf5b6ddff7edda31149a
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1.38 gdbm 1.8.3
:bbae68f3e04db54626c88fa1080b546f

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

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

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

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

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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.

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

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

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

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

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

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

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

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- the GNU.Gettext.dll C# library,
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1.41 glib-2.0 2.38.2
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the 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.)

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

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

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1.46 gst1.0-plugin-dlnasrc 1.0 :6e04ef961f

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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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.

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.

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

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1.48 gstreamer1.0-plugins-base 1.4.5

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

1.49 gstreamer1.0-plugins-good 1.4.5

1.49.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

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   b) You must cause the files modified to carry prominent notices
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      charge to all third parties under the terms of this License.

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

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      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.)

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

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

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

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

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

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

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

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

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

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

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

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

### Shared object suffix
SO = so

### Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

## Versioned libraries rules

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

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

## End FreeBSD-specific setup

### 1.58 iksemel 1.4

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1.61 iw 3.11

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1.62 jansson 2.4

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1.63 jpeg 8d

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt  Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1       Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c  Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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ACKNOWLEDGMENTS
=================
Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

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Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS
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The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force
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There are currently distributions in circulation containing the name "libjpeg" which claim to be a "derivative" or "fork" of the original libjpeg, but don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. Furthermore, they violate the license conditions as described under LEGAL ISSUES above. We have no sympathy for the release of misleading and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

TO DO
=====

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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1.64 json-c 0.12-20140410

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1.65 jsoncpp 0.6.0-rc2
:22bcfd69bc3ee67473ee96535d5af581

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>12 lelong & 1 with Unicode index
>16 lelong x b %d glyphs
>28 lelong x b %dx
>24 lelong x b %d

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

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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714
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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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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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,
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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d) If distribution of the work is made by offering access to copy
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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
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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
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be optional: if the application does not supply it, the square
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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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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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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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.

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

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1.82 libnl 3.2.22 :Thomas Graf

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

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

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1.84 libpcap 1.5.3 :December 18, 2013
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1.85 libpcre 8.34

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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
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# This file contains a list of people who've made non-trivial # contribution to the Google C++ Testing Framework project. People # who commit code to the project are encouraged to add their names # here. Please keep the list sorted by first names.

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1.101 mongoose 2.6
:a171b2526f8bd036c32215f7eb3a44e3

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:afb062cb3502f0e8742d9280b79855a4

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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1.105 nemo-qml-plugin-dbus 2.0.7
:c4d98477aa

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/******************************************************************************/
#ifndef DECLARATIVEDBUSINTERFACE_H
#define DECLARATIVEDBUSINTERFACE_H

#include <QObject>
#include <QMap>
#include <QPair>
#include <QPointer>
#include <QVariant>
#include <QDBusArgument>
#include <QJSValue>
#include <QQmlParserStatus>
#include <QUrl>
#include <QDBusPendingCallWatcher>
#include <QDBusMessage>
#include <QPair>

#include "declaratedbus.h"

class DeclarativeDBusInterface : public QObject, public QQmlParserStatus
{
  Q_OBJECT

  Q_PROPERTY(QString service READ service WRITE setService NOTIFY serviceChanged)
  Q_PROPERTY(QString path READ path WRITE setPath NOTIFY pathChanged)
  Q_PROPERTY(QString iface READ interface WRITE setInterface NOTIFY interfaceChanged)
  Q_PROPERTY(DeclarativeDBus::BusType bus READ bus WRITE setBus NOTIFY busChanged)
  Q_PROPERTY(bool signalsEnabled READ signalsEnabled WRITE setSignalsEnabled NOTIFY signalsEnabledChanged)
  Q_PROPERTY(bool propertiesEnabled READ propertiesEnabled WRITE setPropertiesEnabled NOTIFY propertiesEnabledChanged)

  Q_INTERFACES(QQmlParserStatus)

public:
  DeclarativeDBusInterface(QObject *parent = 0);
  ~DeclarativeDBusInterface();

  QString service() const;
  void setService(const QString &service);

  QString path() const;
  void setPath(const QString &path);

  QString interface() const;
  void setInterface(const QString &interface);

  DeclarativeDBus::BusType bus() const;
  void setBus(DeclarativeDBus::BusType bus);
bool signalsEnabled() const;
void setSignalsEnabled(bool enabled);

bool signalsConnected() const;

bool propertiesEnabled() const;
void setPropertiesEnabled(bool enabled);

void propertiesConnected() const;

Q_INVOKABLE void call(const QString &method,
        const QJSValue &arguments = QJSValue::UndefinedValue,
        const QJSValue &callback = QJSValue::UndefinedValue,
        const QJSValue &errorCallback = QJSValue::UndefinedValue);
Q_INVOKABLE bool typedCall(const QString &method, const QJSValue &arguments,
        const QJSValue &callback=QJSValue::UndefinedValue,
        const QJSValue &errorCallback=QJSValue::UndefinedValue);

Q_INVOKABLE QVariant getProperty(const QString &name);
Q_INVOKABLE void setProperty(const QString &name, const QVariant &newValue);

void classBegin();
void componentComplete();

static QVariant unwind(const QVariant &val, int depth = 0);
static QVariantList argumentsFromScriptValue(const QJSValue &arguments);

signals:
void serviceChanged();
void pathChanged();
void interfaceChanged();
void busChanged();
void signalsEnabledChanged();
void propertiesEnabledChanged();
void propertiesChanged();

private slots:
void pendingCallFinished(QDBusPendingCallWatcher *watcher);
void signalHandler(const QDBusMessage &message);
void introspectionDataReceived(const QString &introspectionData);
void notifyPropertyChange(const QDBusMessage &message);
void propertyValuesReceived(const QDBusMessage &message);

private:
void invalidateIntrospection();
void introspect();
bool dispatch();
const QDBusMessage &message, const QJSValue &callback, const QJSValue &errorCallback);
void disconnectSignalHandler();
void connectSignalHandler();
void disconnectPropertyHandler();
void connectPropertyHandler();
void queryPropertyValues();
void updatePropertyValues(const QDBusArgument &values);

bool marshallDBusArgument(QDBusMessage &msg, const QJSValue &arg);
QDBusMessage constructMessage(const QString &service,
                                const QString &path,
                                const QString &interface,
                                const QString &method,
                                const QJSValue &arguments);

QString m_service;
QString m_path;
QString m_interface;
DeclarativeDBus::BusType m_bus;
QMap<QDBusPendingCallWatcher *, QPair<QJSValue, QJSValue> > m_pendingCalls; // pair: success and error callback
QMap<QString, QMetaMethod> m_signals;
QMap<QString, QMetaProperty> m_properties;
bool m_componentCompleted;
bool m_signalsEnabled;
bool m_signalsConnected;
bool m_propertiesEnabled;
bool m_propertiesConnected;
bool m_introspected;
bool m_providesPropertyInterface;
};

#endif

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* Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)
*/

/**
 * This file contains a macro ('generate_composite_function') which can
 * construct 2D image processing functions, based on a common template.
 * Any combinations of source, destination and mask images with 8bpp,
 * 16bpp, 24bpp, 32bpp color formats are supported.
 *
 * This macro takes care of:
 * - handling of leading and trailing unaligned pixels
 * - doing most of the work related to L2 cache preload
 * - encourages the use of software pipelining for better instructions
 * - scheduling
 *
 * The user of this macro has to provide some configuration parameters
 * (bit depths for the images, prefetch distance, etc.) and a set of
 * macros, which should implement basic code chunks responsible for
 * pixels processing. See 'pixman-arm-neon-asm.S' file for the usage
 * examples.
 *
 * TODO:
 * - try overlapped pixel method (from Ian Rickards) when processing
 * - exactly two blocks of pixels
 * - maybe add an option to do reverse scanline processing
 */

/**
 * Bit flags for 'generate_composite_function' macro which are used
 * to tune generated functions behavior.
 */
.set FLAG_DST_WRITEONLY, 0
.set FLAG_DST_READWRITE, 1
.set FLAG_DEINTERLEAVE_32BPP, 2

/**
 * Offset in stack where mask and source pointer/stride can be accessed
 * from 'init' macro. This is useful for doing special handling for solid mask.
"
*/
.set ARGS_STACK_OFFSET, 40

/
* Constants for selecting preferable prefetch type.
*/
.set PREFETCH_TYPE_NONE, 0 /* No prefetch at all */
.set PREFETCH_TYPE_SIMPLE, 1 /* A simple, fixed-distance-ahead prefetch */
.set PREFETCH_TYPE_ADVANCED, 2 /* Advanced fine-grained prefetch */

/
* Definitions of supplementary pixld/pixst macros (for partial load/store of
* pixel data).
*/

.macro pixldst1 op, elem_size, reg1, mem_operand, abits
  .if abits > 0
    op.&elem_size {d&reg1}, [&mem_operand&,:&abits&]!
  .else
    op.&elem_size {d&reg1}, [&mem_operand&]!
  .endif
.endm

.macro pixldst2 op, elem_size, reg1, reg2, mem_operand, abits
  .if abits > 0
    op.&elem_size {d&reg1, d&reg2}, [&mem_operand&,:&abits&]!
  .else
    op.&elem_size {d&reg1, d&reg2}, [&mem_operand&]!
  .endif
.endm

.macro pixldst4 op, elem_size, reg1, reg2, reg3, reg4, mem_operand, abits
  .if abits > 0
    op.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [&mem_operand&,:&abits&]!
  .else
    op.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [&mem_operand&]!
  .endif
.endm

.macro pixldst0 op, elem_size, reg1, idx, mem_operand, abits
  op.&elem_size {d&reg1[idx]}, [&mem_operand&]!
.endm

.macro pixldst3 op, elem_size, reg1, reg2, reg3, mem_operand
  op.&elem_size {d&reg1, d&reg2, d&reg3}, [&mem_operand&]!
.endm

.macro pixldst30 op, elem_size, reg1, reg2, reg3, idx, mem_operand
op&.&elem_size {d&reg1[idx], d&reg2[idx], d&reg3[idx]}, [&mem_operand&]!
.endm

.macro pixldst numbytes, op, elem_size, basereg, mem_operand, abits
    .if numbytes == 32
        pixldst4 op, elem_size, (%(basereg+4), (%(basereg+5), \n            (%(basereg+6), (%(basereg+7), mem_operand, abits
    .elseif numbytes == 16
        pixldst2 op, elem_size, (%(basereg+2), (%(basereg+3), mem_operand, abits
    .elseif numbytes == 8
        pixldst1 op, elem_size, (%(basereg+1), mem_operand, abits
    .elseif numbytes == 4
        .if !RESPECT STRICT_ALIGNMENT || (elem_size == 32)
            pixldst0 op, 32, (%(basereg+0), 1, mem_operand, abits
        .elseif elem_size == 16
            pixldst0 op, 16, (%(basereg+0), 2, mem_operand, abits
            pixldst0 op, 16, (%(basereg+0), 3, mem_operand, abits
        .else
            pixldst0 op, 8, (%(basereg+0), 4, mem_operand, abits
            pixldst0 op, 8, (%(basereg+0), 5, mem_operand, abits
            pixldst0 op, 8, (%(basereg+0), 6, mem_operand, abits
            pixldst0 op, 8, (%(basereg+0), 7, mem_operand, abits
        .endif
    .elseif numbytes == 2
        .if !RESPECT STRICT_ALIGNMENT || (elem_size == 16)
            pixldst0 op, 16, (%(basereg+0), 1, mem_operand, abits
        .else
            pixldst0 op, 8, (%(basereg+0), 2, mem_operand, abits
            pixldst0 op, 8, (%(basereg+0), 3, mem_operand, abits
        .endif
    .elseif numbytes == 1
        pixldst0 op, 8, (%(basereg+0), 1, mem_operand, abits
    .else
        .error "unsupported size: numbytes"
    .endif
.endm

.macro pixld numpix, bpp, basereg, mem_operand, abits=0
    .if bpp > 0
        .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
            pixldst4 vld4, 8, (%(basereg+4), (%(basereg+5), \n                (%(basereg+6), (%(basereg+7), mem_operand, abits
        .elseif (bpp == 24) && (numpix == 8)
            pixldst3 vld3, 8, (%(basereg+3), (%(basereg+4), (%(basereg+5), mem_operand
        .elseif (bpp == 24) && (numpix == 8)
            pixldst3 vld3, 8, (%(basereg+3), (%(basereg+4), (%(basereg+5), mem_operand
        .elseif (bpp == 24) && (numpix == 4)
            pixldst30 vld30, 8, (%(basereg+0), (%(basereg+1), (%(basereg+2), 4, mem_operand
            pixldst30 vld30, 8, (%(basereg+0), (%(basereg+1), (%(basereg+2), 5, mem_operan...
pixldst30 vld3, 8, %basereg+0), %basereg+1), %basereg+2), 7, mem_operand
.elseif (bpp == 24) && (numpix == 2)
  pixldst30 vld3, 8, %basereg+0), %basereg+1), %basereg+2), 2, mem_operand
.pixldst30 vld3, 8, %basereg+0), %basereg+1), %basereg+2), 3, mem_operand
.elseif (bpp == 24) && (numpix == 1)
  pixldst30 vld3, 8, %basereg+0), %basereg+1), %basereg+2), 1, mem_operand
.endm
.pixldst (%numpix * bpp / 8), vld1, %bpp), basereg, mem_operand, abits
.endm
.endm
.pixld_a numpix, bpp, basereg, mem_operand
.if (bpp * numpix) <= 128
  pixld numpix, bpp, basereg, mem_operand, %bpp * numpix)
.else
  pixld numpix, bpp, basereg, mem_operand, 128
.endm
.endm
.pixst_a numpix, bpp, basereg, mem_operand
.if (bpp * numpix) <= 128
  pixst numpix, bpp, basereg, mem_operand, %bpp * numpix)
.else
  pixst numpix, bpp, basereg, mem_operand, 128
.endm
.endm
/*
* Pixel fetcher for nearest scaling (needs TMP1, TMP2, VX, UNIT_X register
* aliases to be defined)
*/

.macro pixld1_s elem_size, reg1, mem_operand
  .if elem_size == 16
    mov     TMP1, VX, asr #16
    adds    VX, VX, UNIT_X
    5: subpls VX, VX, SRC_WIDTH_FIXED
      bpl    5b
      add    TMP1, mem_operand, TMP1, asl #1
      mov    TMP2, VX, asr #16
      5: subpls VX, VX, SRC_WIDTH_FIXED
      bpl    5b
      add    TMP2, mem_operand, TMP2, asl #1
      vld1.16 {d&reg1&[0]}, [TMP1, :16]
      mov    TMP1, VX, asr #16
      adds    VX, VX, UNIT_X
      5: subpls VX, VX, SRC_WIDTH_FIXED
      bpl    5b
      add    TMP1, mem_operand, TMP1, asl #1
      vld1.16 {d&reg1&[1]}, [TMP1, :16]
      mov    TMP2, VX, asr #16
      adds    VX, VX, UNIT_X
      5: subpls VX, VX, SRC_WIDTH_FIXED
      bpl    5b
      add    TMP2, mem_operand, TMP2, asl #1
      vld1.16 {d&reg1&[0]}, [TMP1, :16]
      vld1.16 {d&reg1&[1]}, [TMP2, :16]
  .elseif elem_size == 32
    mov     TMP1, VX, asr #16
    adds    VX, VX, UNIT_X
    5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl    5b
    add    TMP1, mem_operand, TMP1, asl #1
    vld1.16 {d&reg1&[0]}, [TMP1, :16]
    vld1.16 {d&reg1&[1]}, [TMP2, :16]
    mov    TMP2, VX, asr #16
    adds    VX, VX, UNIT_X
    5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl    5b
    add    TMP2, mem_operand, TMP2, asl #1
    vld1.16 {d&reg1&[0]}, [TMP1, :32]
    vld1.16 {d&reg1&[1]}, [TMP2, :32]
  .else
    .error "unsupported"
  .endif
  .endm
.macro pixld2_s elem_size, reg1, reg2, mem_operand
    .if 0 /* elem_size == 32 */
      mov     TMP1, VX, asr #16
      add     VX, VX, UNIT_X, asl #1
      add     TMP1, mem_operand, TMP1, asl #2
      mov     TMP2, VX, asr #16
      sub     VX, VX, UNIT_X
      add     TMP2, mem_operand, TMP2, asl #2
      vld1.32 {d&reg1&[0]}, [TMP1, :32]
      mov     TMP1, VX, asr #16
      add     VX, VX, UNIT_X, asl #1
      add     TMP1, mem_operand, TMP1, asl #2
      vld1.32 {d&reg2&[0]}, [TMP1, :32]
      mov     TMP2, VX, asr #16
      add     VX, VX, UNIT_X
      add     TMP2, mem_operand, TMP2, asl #2
      vld1.32 {d&reg1&[1]}, [TMP1, :32]
      vld1.32 {d&reg2&[1]}, [TMP2, :32]
    .else
      pixld1_s elem_size, reg1, mem_operand
      pixld1_s elem_size, reg2, mem_operand
    .endif
    .endm

.macro pixld0_s elem_size, reg1, idx, mem_operand
    .if elem_size == 16
      mov     TMP1, VX, asr #16
      adds    VX, VX, UNIT_X
      5:  subpls VX, VX, SRC_WIDTH_FIXED
          bpl     5b
          add     TMP1, mem_operand, TMP1, asl #1
          vld1.16 {d&reg1&[idx]}, [TMP1, :16]
      .elseif elem_size == 32
      mov     TMP1, VX, asr #16
      adds    VX, VX, UNIT_X
      5:  subpls VX, VX, SRC_WIDTH_FIXED
          bpl     5b
          add     TMP1, mem_operand, TMP1, asl #2
          vld1.32 {d&reg1&[idx]}, [TMP1, :32]
    .else
      pixld1_s elem_size, reg1, mem_operand
      pixld1_s elem_size, reg2, mem_operand
    .endif
    .endm

.macro pixld_s_internal numbytes, elem_size, basereg, mem_operand
    .if numbytes == 32
      pixld2_s elem_size, %&(basereg+4), %&(basereg+5), mem_operand
    .endif
    .endm
pixld2_s elem_size, %(basereg+6), %(basereg+7), mem_operand
pixdeinterleave elem_size, %(basereg+4)
.elseif numbytes == 16
  pixld2_s elem_size, %(basereg+2), %(basereg+3), mem_operand
.elseif numbytes == 8
  pixld1_s elem_size, %(basereg+1), mem_operand
.elseif numbytes == 4
  .if elem_size == 32
    pixld0_s elem_size, %(basereg+0), 1, mem_operand
  .elseif elem_size == 16
    pixld0_s elem_size, %(basereg+0), 2, mem_operand
    pixld0_s elem_size, %(basereg+0), 3, mem_operand
  .else
    pixld0_s elem_size, %(basereg+0), 4, mem_operand
    pixld0_s elem_size, %(basereg+0), 5, mem_operand
    pixld0_s elem_size, %(basereg+0), 6, mem_operand
    pixld0_s elem_size, %(basereg+0), 7, mem_operand
  .endif
.elseif numbytes == 2
  .if elem_size == 16
    pixld0_s elem_size, %(basereg+0), 1, mem_operand
  .else
    pixld0_s elem_size, %(basereg+0), 2, mem_operand
    pixld0_s elem_size, %(basereg+0), 3, mem_operand
  .endif
  .elseif numbytes == 1
    pixld0_s elem_size, %(basereg+0), 1, mem_operand
  .else
    .error "unsupported size: numbytes"
  .endif
.endm

.macro pixld_s numpix, bpp, basereg, mem_operand
  .if bpp > 0
    pixld_s_internal %(numpix * bpp / 8), %(bpp), basereg, mem_operand
  .endif
.endm

.macro vuzp8 reg1, reg2
  vuzp.8 d&reg1, d&reg2
.endm

.macro vzip8 reg1, reg2
  vzip.8 d&reg1, d&reg2
.endm

/* deinterleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixdeinterleave bpp, basereg
if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
    vuzp8 %(%basereg+0), %(%basereg+1)
    vuzp8 %(%basereg+2), %(%basereg+3)
    vuzp8 %(%basereg+1), %(%basereg+3)
    vuzp8 %(%basereg+0), %(%basereg+2)
endif
endm

/* interleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
macro pixinterleave bpp, basereg
    if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        vzip8 %(%basereg+0), %(%basereg+2)
        vzip8 %(%basereg+1), %(%basereg+3)
        vzip8 %(%basereg+2), %(%basereg+3)
        vzip8 %(%basereg+0), %(%basereg+1)
    endif
endm

/*
 * This is a macro for implementing cache preload. The main idea is that
 * cache preload logic is mostly independent from the rest of pixels
 * processing code. It starts at the top left pixel and moves forward
 * across pixels and can jump across scanlines. Prefetch distance is
 * handled in an 'incremental' way: it starts from 0 and advances to the
 * optimal distance over time. After reaching optimal prefetch distance,
 * it is kept constant. There are some checks which prevent prefetching
 * unneeded pixel lines below the image (but it still can prefetch a bit
 * more data on the right side of the image - not a big issue and may
 * be actually helpful when rendering text glyphs). Additional trick is
 * the use of LDR instruction for prefetch instead of PLD when moving to
 * the next line, the point is that we have a high chance of getting TLB
 * miss in this case, and PLD would be useless.
 *
 * This sounds like it may introduce a noticeable overhead (when working with
 * fully cached data). But in reality, due to having a separate pipeline and
 * instruction queue for NEON unit in ARM Cortex-A8, normal ARM code can
 * execute simultaneously with NEON and be completely shadowed by it. Thus
 * we get no performance overhead at all (*). This looks like a very nice
 * feature of Cortex-A8, if used wisely. We don't have a hardware prefetcher,
 * but still can implement some rather advanced prefetch logic in software
 * for almost zero cost!
 *
 * (*) The overhead of the prefetcher is visible when running some trivial
 * pixels processing like simple copy. Anyway, having prefetch is a must
 * when working with the graphics data.
 */
macro PF a, x:vararg
    if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_ADVANCED)
a x
.endif
.endm

.macro cache_preload std_increment, boost_increment
.if (src_bpp_shift >= 0) || (dst_r_bpp != 0) || (mask_bpp_shift >= 0)
.if regs_shortage
   PF ldr ORIG_W, [sp] /* If we are short on regs, ORIG_W is kept on stack */
.endif
.if std_increment != 0
   PF add PF_X, PF_X, #std_increment
.endif
   PF tst PF_CTL, #0xF
   PF addne PF_X, PF_X, #boost_increment
   PF subne PF_CTL, PF_CTL, #1
   PF cmp PF_X, ORIG_W
.if src_bpp_shift >= 0
   PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]
.endif
.if dst_r_bpp != 0
   PF pld, [PF_DST, PF_X, lsl #dst_bpp_shift]
.endif
.if mask_bpp_shift >= 0
   PF pld, [PF_MASK, PF_X, lsl #mask_bpp_shift]
.endif
   PF subge PF_X, PF_X, ORIG_W
   PF subges PF_CTL, PF_CTL, #0x10
.if src_bpp_shift >= 0
   PF ldrgeb DUMMY, [PF_SRC, SRC_STRIDE, lsl #src_bpp_shift]!
.endif
.if dst_r_bpp != 0
   PF ldrgeb DUMMY, [PF_DST, DST_STRIDE, lsl #dst_bpp_shift]!
.endif
.if mask_bpp_shift >= 0
   PF ldrgeb DUMMY, [PF_MASK, MASK_STRIDE, lsl #mask_bpp_shift]!
.endif
.endm

.macro cache_preload_simple
.if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_SIMPLE)
.if src_bpp > 0
   pld [SRC, #(PREFETCH_DISTANCE_SIMPLE * src_bpp / 8)]
.endif
.if dst_r_bpp > 0
   pld [DST_R, #(PREFETCH_DISTANCE_SIMPLE * dst_r_bpp / 8)]
.endif
.if mask_bpp > 0

pld [MASK, #(PREFETCH_DISTANCE_SIMPLE * mask_bpp / 8)]
.endif
.endif
.endm

.macro fetch_mask_pixblock
    pixld       pixblock_size, mask_bpp, \
        (mask_basereg - pixblock_size * mask_bpp / 64), MASK
.endm

/*
 * Macro which is used to process leading pixels until destination
 * pointer is properly aligned (at 16 bytes boundary). When destination
 * buffer uses 16bpp format, this is unnecessary, or even pointless.
 */

.macro ensure_destination_ptr_alignment
    process_pixblock_head, \ 
        process_pixblock_tail, \ 
        process_pixblock_tail_head
    .if dst_w_bpp != 24
        tst     DST_R, #0xF
        beq     2f
    .irp lowbit, 1, 2, 4, 8, 16
        local skip1
        .if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
            .if lowbit < 16 /* we don't need more than 16-byte alignment */
                tst     DST_R, #lowbit
                beq     1f
            .endif
    .endif
    pixld_src   (lowbit * 8 / dst_w_bpp), src_bpp, src_basereg, SRC
    pixld      (lowbit * 8 / dst_w_bpp), mask_bpp, mask_basereg, MASK
    .if dst_r_bpp > 0
        pixld_a  (lowbit * 8 / dst_r_bpp), dst_r_bpp, dst_r_basereg, DST_R
    .else
        add     DST_R, DST_R, #lowbit
    .endif
    .PF add    PF_X, PF_X, #(lowbit * 8 / dst_w_bpp)
    .sub     W, W, #(lowbit * 8 / dst_w_bpp)
    1:
.endif
.endr
.pixdeinterleave src_bpp, src_basereg
.pixdeinterleave mask_bpp, mask_basereg
.pixdeinterleave dst_r_bpp, dst_r_basereg

process_pixblock_head
.cache_preload 0, pixblock_size
.cache_preload_simple
process_pixblock_tail

.pixinterleave dst_w_bpp, dst_w_basereg
.irp lowbit, 1, 2, 4, 8, 16
.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
.if lowbit < 16 /* we don't need more than 16-byte alignment */
    tst       DST_W, #lowbit
    beq       1f
.endif
.pixst_a    (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst_w_basereg, DST_W
1:
.endif
.endr
.endm

/*
 * Special code for processing up to (pixblock_size - 1) remaining trailing pixels. As SIMD processing performs operation on pixblock_size pixels, anything smaller than this has to be loaded and stored in a special way. Loading and storing of pixel data is performed in such a way that we fill some 'slots' in the NEON registers (some slots naturally are unused), then perform compositing operation as usual. In the end, the data is taken from these 'slots' and saved to memory.
 * cache_preload_flag - allows to suppress prefetch if
 *         set to 0
 * dst_aligned_flag   - selects whether destination buffer
 *         is aligned
 */
.macro process_trailing_pixels cache_preload_flag, dst_aligned_flag, process_pixblock_head, process_pixblock_tail, process_pixblock_tail_head
.tst      W, #(pixblock_size - 1)
.beq      2f
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
    tst      W, #chunk_size
    beq      1f
    pixld_src chunk_size, src_bpp, src_basereg, SRC
    pixld    chunk_size, mask_bpp, mask_basereg, MASK
.if dst_aligned_flag != 0
    pixld_a  chunk_size, dst_r_bpp, dst_r_basereg, DST_R
.else
pixld  chunk_size, dst_r_bpp, dst_r_basereg, DST_R
.endif
.if cache_preload_flag != 0
  PF add  PF_X, PF_X, #chunk_size
.endif
1:
.endif
.endr
.pixdeinterleave src_bpp, src_basereg
.pixdeinterleave mask_bpp, mask_basereg
.pixdeinterleave dst_r_bpp, dst_r_basereg

.process_pixblock_head
.if cache_preload_flag != 0
  cache_preload 0, pixblock_size
  cache_preload_simple
.endif
  process_pixblock_tail
  pixinterleave dst_w_bpp, dst_w_basereg
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
  tst    W, #chunk_size
  beq    1f
.if dst_aligned_flag != 0
  pixst_a  chunk_size, dst_w_bpp, dst_w_basereg, DST_W
.else
  pixst  chunk_size, dst_w_bpp, dst_w_basereg, DST_W
.endif
1:
.endif
.endr
2:
.endm

/*
 * Macro, which performs all the needed operations to switch to the next
 * scanline and start the next loop iteration unless all the scanlines
 * are already processed.
 */
.macro advance_to_next_scanline start_of_loop_label
.if regs_shortage
  ldrd  W, [sp] /* load W and H (width and height) from stack */
.else
  mov    W, ORIG_W
.endif
.add    DST_W, DST_W, DST_STRIDE, lsl #dst_bpp_shift
.if src_bpp != 0
.add    SRC, SRC, SRC_STRIDE, lsl #src_bpp_shift
endif
.endif
.if mask_bpp != 0
    add         MASK, MASK, MASK_STRIDE, lsl #mask_bpp_shift
.endif
.if (dst_w_bpp != 24)
    sub         DST_W, DST_W, W, lsl #dst_bpp_shift
.endif
.if (src_bpp != 24) && (src_bpp != 0)
    sub         SRC, SRC, W, lsl #src_bpp_shift
.endif
.if (mask_bpp != 24) && (mask_bpp != 0)
    sub         MASK, MASK, W, lsl #mask_bpp_shift
.endif
.subs        H, H, #1
.mov         DST_R, DST_W
.if regs_shortage
    str         H, [sp, #4] /* save updated height to stack */
.endif
.bge         start_of_loop_label
.endm

/*
 * Registers are allocated in the following way by default:
 * d0, d1, d2, d3     - reserved for loading source pixel data
 * d4, d5, d6, d7     - reserved for loading destination pixel data
 * d24, d25, d26, d27 - reserved for loading mask pixel data
 * d28, d29, d30, d31 - final destination pixel data for writeback to memory
 */
.macro generate_composite_function fname, src_bpp_, mask_bpp_, dst_w_bpp_, flags, pixblock_size_, prefetch_distance, init, cleanup, process_pixblock_head, process_pixblock_tail, process_pixblock_tail_head, dst_w_basereg_ = 28, dst_r_basereg_ = 4, src_basereg_ = 0, mask_basereg_ = 24

    .func fname
    .global fname
    /* For ELF format also set function visibility to hidden */


ifdef __ELF__
    .hidden fname
    .type fname, %function
#endif
fname:
    push {r4-r12, lr} /* save all registers */

/*
 * Select prefetch type for this function. If prefetch distance is
 * set to 0 or one of the color formats is 24bpp, SIMPLE prefetch
 * has to be used instead of ADVANCED.
 */
    .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_DEFAULT
    .if prefetch_distance == 0
        .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
    .elseif (PREFETCH_TYPE_CURRENT > PREFETCH_TYPE_SIMPLE) &&
        ((src_bpp_ == 24) || (mask_bpp_ == 24) || (dst_w_bpp_ == 24))
        .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_SIMPLE
    .endif

/*
 * Make some macro arguments globally visible and accessible
 * from other macros
 */
    .set src_bpp, src_bpp_
    .set mask_bpp, mask_bpp_
    .set dst_w_bpp, dst_w_bpp_
    .set pixblock_size, pixblock_size_
    .set dst_w_basereg, dst_w_basereg_
    .set dst_r_basereg, dst_r_basereg_
    .set src_basereg, src_basereg_
    .set mask_basereg, mask_basereg_

.macro pixld_src x:vararg
    pixld x
.endm
.macro fetch_src_pixblock
    pixld_src   pixblock_size, src_bpp, \
        (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

/*
 * Assign symbolic names to registers
 */
    W       .req  r0 /* width (is updated during processing) */
    H       .req  r1 /* height (is updated during processing) */
    DST_W   .req  r2 /* destination buffer pointer for writes */
    DST_STRIDE .req  r3 /* destination image stride */
    SRC     .req  r4 /* source buffer pointer */
SRC_STRIDE .req r5 /* source image stride */
DST_R .req r6 /* destination buffer pointer for reads */

MASK .req r7 /* mask pointer */
MASK_STRIDE .req r8 /* mask stride */

PF_CTL .req r9 /* combined lines counter and prefetch */
/* distance increment counter */
PF_X .req r10 /* pixel index in a scanline for current */
/* pretetch position */
PF_SRC .req r11 /* pointer to source scanline start */
/* for prefetch purposes */
PF_DST .req r12 /* pointer to destination scanline start */
/* for prefetch purposes */
PF_MASK .req r14 /* pointer to mask scanline start */
/* for prefetch purposes */

/*
* Check whether we have enough registers for all the local variables.
* If we don't have enough registers, original width and height are
* kept on top of stack (and 'regs_shortage' variable is set to indicate
* this for the rest of code). Even if there are enough registers, the
* allocation scheme may be a bit different depending on whether source
* or mask is not used.
*/
.if (PREFETCH_TYPE_CURRENT < PREFETCH_TYPE_ADVANCED)
ORIG_W .req r10 /* saved original width */
DUMMY .req r12 /* temporary register */
.set regs_shortage, 0
.elseif mask_bpp == 0
ORIG_W .req r7 /* saved original width */
DUMMY .req r8 /* temporary register */
.set regs_shortage, 0
.elseif src_bpp == 0
ORIG_W .req r4 /* saved original width */
DUMMY .req r5 /* temporary register */
.set regs_shortage, 0
.else
ORIG_W .req r1 /* saved original width */
DUMMY .req r1 /* temporary register */
.set regs_shortage, 1
.endif

.set mask_bpp_shift, -1
.if src_bpp == 32
.set src_bpp_shift, 2
.elseif src_bpp == 24
.set src_bpp_shift, 0
.elseif src_bpp == 16
.set src_bpp_shift, 1
.elseif src_bpp == 8
   .set src_bpp_shift, 0
.elseif src_bpp == 0
   .set src_bpp_shift, -1
.else
   .error "requested src bpp (src_bpp) is not supported"
.endif
.if mask_bpp == 32
   .set mask_bpp_shift, 2
.elseif mask_bpp == 24
   .set mask_bpp_shift, 0
.elseif mask_bpp == 8
   .set mask_bpp_shift, 0
.elseif mask_bpp == 0
   .set mask_bpp_shift, -1
.else
   .error "requested mask bpp (mask_bpp) is not supported"
.endif
.if dst_w_bpp == 32
   .set dst_bpp_shift, 2
.elseif dst_w_bpp == 24
   .set dst_bpp_shift, 0
.elseif dst_w_bpp == 16
   .set dst_bpp_shift, 1
.elseif dst_w_bpp == 8
   .set dst_bpp_shift, 0
.else
   .error "requested dst bpp (dst_w_bpp) is not supported"
.endif
.if (((flags) & FLAG_DST_READWRITE) != 0)
   .set dst_r_bpp, dst_w_bpp
.else
   .set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
   .set DEINTERLEAVE_32BPP_ENABLED, 1
.else
   .set DEINTERLEAVE_32BPP_ENABLED, 0
.endif
.if prefetch_distance < 0 || prefetch_distance > 15
   .error "invalid prefetch distance (prefetch_distance)"
.endif
.if src_bpp > 0
   ldr SRC, [sp, #40]
.endif
.if mask_bpp > 0
  ldr   MASK, [sp, #48]
.endif
PF mov   PF_X, #0
.if src_bpp > 0
  ldr   SRC_STRIDE, [sp, #44]
.endif
.if mask_bpp > 0
  ldr   MASK_STRIDE, [sp, #52]
.endif
mov   DST_R, DST_W
.if src_bpp == 24
  sub   SRC_STRIDE, SRC_STRIDE, W
  sub   SRC_STRIDE, SRC_STRIDE, W, lsl #1
.endif
.if mask_bpp == 24
  sub   MASK_STRIDE, MASK_STRIDE, W
  sub   MASK_STRIDE, MASK_STRIDE, W, lsl #1
.endif
.if dst_w_bpp == 24
  sub   DST_STRIDE, DST_STRIDE, W
  sub   DST_STRIDE, DST_STRIDE, W, lsl #1
.endif

/*
 * Setup advanced prefetcher initial state
 */
PF mov   PF_SRC, SRC
PF mov   PF_DST, DST_R
PF mov   PF_MASK, MASK
/* PF_CTL = prefetch_distance | ((h - 1) << 4) */
PF mov   PF_CTL, H, lsl #4
PF add   PF_CTL, #(prefetch_distance - 0x10)
init
.if regs_shortage
  push   {r0, r1}
.endif
subs   H, H, #1
.if regs_shortage
  str    H, [sp, #4] /* save updated height to stack */
.else
  mov    ORIG_W, W
.endif
blt    9f
cmp    W, #(pixblock_size * 2)
blt 8f
/*
 * This is the start of the pipelined loop, which if optimized for
 * long scanlines
 */
0:
    ensure_destination_ptr_alignment process_pixblock_head, \
        process_pixblock_tail, \
        process_pixblock_tail_head

/*@ Implement "head (tail_head) ... (tail_head) tail" loop pattern */
    pixld_a pixblock_size, dst_r_bpp, \
        (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
    pixld pixblock_size, mask_bpp, \n        (mask_basereg - pixblock_size * mask_bpp / 64), MASK
PF add PF_X, PF_X, #pixblock_size
process_pixblock_head
cache_preload 0, pixblock_size
cache_preload_simple
    subs W, W, #(pixblock_size * 2)
blt 2f
1:
    process_pixblock_tail_head
cache_preload_simple
    subs W, W, #pixblock_size
    bge 1b
2:
    process_pixblock_tail
    pixst_a pixblock_size, dst_w_bpp, \n        (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

/*@ Process the remaining trailing pixels in the scanline */
    process_trailing_pixels 1, 1, \n        process_pixblock_head, \n        process_pixblock_tail, \n        process_pixblock_tail_head
advance_to_next_scanline 0b

.if regs_shortage
    pop {r0, r1}
.endif
    cleanup
    pop {r4-r12, pc} /* exit */
*/
/*
 * This is the start of the loop, designed to process images with small width
 * (less than pixblock_size * 2 pixels). In this case neither pipelining
 * nor prefetch are used. 
*/
8:
 /* Process exactly pixblock_size pixels if needed */
st
tst W, #pixblock_size
beq 1f
pixld pixblock_size, dst_r_bpp, \n     (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld pixblock_size, mask_bpp, \n     (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
process_pixblock_tail
pixst pixblock_size, dst_w_bpp, \n     (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
1:
 /* Process the remaining trailing pixels in the scanline */
process_trailing_pixels 0, 0, \n     process_pixblock_head, \n     process_pixblock_tail, \n     process_pixblock_tail_head
advance_to_next_scanline 8b
9:
.if regs_shortage
    pop {r0, r1}
.endif
    cleanup
    pop {r4-r12, pc} /* exit */
    .purgem fetch_src_pixblock
    .purgem pixld_src
    .unreq SRC
    .unreq MASK
    .unreq DST_R
    .unreq DST_W
    .unreq ORIG_W
    .unreq W
    .unreq H
    .unreq SRC_STRIDE
    .unreq DST_STRIDE
    .unreq MASK_STRIDE
    .unreq PF_CTL
    .unreq PF_X
    .unreq PF_SRC
    .unreq PF_DST
    .unreq PF_MASK
    .unreq DUMMY
.endfunc
/*
* A simplified variant of function generation template for a single
* scanline processing (for implementing pixman combine functions)
*/

.macro generate_composite_function_scanline        use_nearest_scaling, 
    fname, 
    src_bpp_, 
    mask_bpp_, 
    dst_w_bpp_, 
    flags, 
    pixblock_size_, 
    init, 
    cleanup, 
    process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head, 
    dst_w_basereg_ = 28, 
    dst_r_basereg_ = 4, 
    src_basereg_ = 0, 
    mask_basereg_ = 24

    .func fname
    .global fname
    /* For ELF format also set function visibility to hidden */
    ifdef __ELF__
        .hidden fname
        .type fname, %function
    endif
    fname:
        .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
    /*
    * Make some macro arguments globally visible and accessible
    * from other macros
    */
        .set src_bpp, src_bpp_
        .set mask_bpp, mask_bpp_
        .set dst_w_bpp, dst_w_bpp_
        .set pixblock_size, pixblock_size_
        .set dst_w_basereg, dst_w_basereg_
        .set dst_r_basereg, dst_r_basereg_
        .set src_basereg, src_basereg_
        .set mask_basereg, mask_basereg_
        .if use_nearest_scaling != 0
    /*
    * Assign symbolic names to registers for nearest scaling
    */
/*
 * Assign symbolic names to registers
 */
W .req r0    /* width (is updated during processing) */
DST_W .req r1   /* destination buffer pointer for writes */
SRC .req r2    /* source buffer pointer */
DST_R .req ip  /* destination buffer pointer for reads */
MASK .req r3   /* mask pointer */

.macro pixld_src x:vararg
  pixld x
.endm

.if (((flags) & FLAG_DST_READWRITE) != 0)
  .set dst_r_bpp, dst_w_bpp
.else
  .set dst_r_bpp, 0
.endif

.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
  .set DEINTERLEAVE_32BPP_ENABLED, 1
.else
  .set DEINTERLEAVE_32BPP_ENABLED, 0
.endif
.macro fetch_src_pixblock
    pixld_src pixblock_size, src_bpp, \
        (src_basereg - pixblock_size * src_bpp / 64), SRC
.endsm

.init

mov        DST_R, DST_W

cmp        W, #pixblock_size
blt        8f

.ensure_destination_ptr_alignment process_pixblock_head, \
        process_pixblock_tail, \
        process_pixblock_tail_head

subs       W, W, #pixblock_size
blt        7f

/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */
.pixld_a pixblock_size, dst_r_bpp, \n        (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
.pixld pixblock_size, mask_bpp, \n        (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
subs       W, W, #pixblock_size
blt        2f
1:
    process_pixblock_tail_head
subs       W, W, #pixblock_size
bge         1b
2:
    process_pixblock_tail
.pixst_a pixblock_size, dst_w_bpp, \n        (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
7:
/* Process the remaining trailing pixels in the scanline (dst aligned) */
process_trailing_pixels 0, 1, \n                                process_pixblock_head, \n                                process_pixblock_tail, \n                                process_pixblock_tail_head

.cleanup
.if use_nearest_scaling != 0
    pop         {r4-r8, pc}  /* exit */
.else
    bx          lr  /* exit */
.endif
/* Process the remaining trailing pixels in the scanline (dst unaligned) */
process_trailing_pixels 0, 0, \
    process_pixblock_head, \
    process_pixblock_tail, \
    process_pixblock_tail_head

cleanup

.if use_nearest_scaling != 0
    pop         {r4-r8, pc}  /* exit */
    .unreq      DST_R
    .unreq      SRC
    .unreq      W
    .unreq      VX
    .unreq      UNIT_X
    .unreq      TMP1
    .unreq      TMP2
    .unreq      DST_W
    .unreq      MASK
    .unreq      SRC_WIDTH_FIXED
.else
    bx          lr  /* exit */
    .unreq      SRC
    .unreq      MASK
    .unreq      DST_R
    .unreq      DST_W
    .unreq      W
.endif

.purgem     fetch_src_pixblock
.purgem     pixld_src

.endfunc
.endm

.macro generate_composite_function_single_scanline x:vararg
    generate_composite_function_scanline 0, x
.endm

.macro generate_composite_function_nearest_scanline x:vararg
    generate_composite_function_scanline 1, x
.endm

/* Default prologue/epilogue, nothing special needs to be done */
.macro default_init
.endm

.macros default_cleanup
.endm

/*
 * Prologue/epilogue variant which additionally saves/restores d8-d15
 * registers (they need to be saved/restored by callee according to ABI).
 * This is required if the code needs to use all the NEON registers.
 */

.macros default_init_need_all_regs
  vpush       {d8-d15}
.endm

.macros default_cleanup_need_all_regs
  vpop        {d8-d15}
.endm

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

/*
 * Conversion of 8 r5g6b6 pixels packed in 128-bit register (in)
 * into a planar a8r8g8b8 format (with a, r, g, b color components
 * stored into 64-bit registers out_a, out_r, out_g, out_b respectively).
 *
 * Warning: the conversion is destructive and the original
 * value (in) is lost.
 */

.macro convert_0565_to_8888 in, out_a, out_r, out_g, out_b
  vshrn.u16   out_r, in,    #8
  vshrn.u16   out_g, in,    #3
  vsli.u16    in,    in,    #5
  vmov.u8     out_a, #255
  vsri.u8     out_r, out_r, #5
  vsri.u8     out_g, out_g, #6
  vshrn.u16   out_b, in,    #2
.endm

.macro convert_0565_to_x888 in, out_r, out_g, out_b
  vshrn.u16   out_r, in,    #8
  vshrn.u16   out_g, in,    #3
  vsli.u16    in,    in,    #5
  vsri.u8     out_r, out_r, #5
  vsri.u8     out_g, out_g, #6
  vshrn.u16   out_b, in,    #2
.endm
*/
* Conversion from planar a8r8g8b8 format (with a, r, g, b color components
* in 64-bit registers in_a, in_r, in_g, in_b respectively) into 8 r5g6b6
* pixels packed in 128-bit register (out). Requires two temporary 128-bit
* registers (tmp1, tmp2)
*/

.macro convert_8888_to_0565 in_r, in_g, in_b, out, tmp1, tmp2
    vshll.u8    tmp1, in_g, #8
    vshll.u8    out, in_r, #8
    vshll.u8    tmp2, in_b, #8
    vsri.u16    out, tmp1, #5
    vsri.u16    out, tmp2, #11
.endm

/*
* Conversion of four r5g6b5 pixels (in) to four x8r8g8b8 pixels
* returned in (out0, out1) registers pair. Requires one temporary
* 64-bit register (tmp). 'out1' and 'in' may overlap, the original
* value from 'in' is lost
*/

.macro convert_four_0565_to_x888_packed in, out0, out1, tmp
    vshl.u16    out0, in,   #5  /* G top 6 bits */
    vshl.u16    tmp,  in,   #11 /* B top 5 bits */
    vsri.u16    in,   in,   #5  /* R is ready in top bits */
    vsri.u16    out0, out0, #6  /* G is ready in top bits */
    vsri.u16    tmp,  tmp,  #5  /* B is ready in top bits */
    vshr.u16    out1, in,   #8  /* R is in place */
    vsri.u16    out0, tmp,  #8  /* G & B is in place */
    vzip.u16    out0, out1      /* everything is in place */
.endm

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*/
/*
* Matrix interfaces
#ifdef HAVE_CONFIG_H
#include <config.h>
#endif
#include <math.h>
#include <string.h>
#include "pixman-private.h"

#define F(x) pixman_int_to_fixed (x)

static force_inline int
count_leading_zeros (uint32_t x)
{
#ifdef HAVE_BUILTIN_CLZ
    return __builtin_clz (x);
#else
    int n = 0;
    while (x)
    {
        n++;
        x >>= 1;
    }
    return 32 - n;
#endif
}

/*
 * Large signed/unsigned integer division with rounding for the platforms with
 * only 64-bit integer data type supported (no 128-bit data type).
 *
 * Arguments:
 *     hi, lo - high and low 64-bit parts of the dividend
 *     div    - 48-bit divisor
 *
 * Returns: lowest 64 bits of the result as a return value and highest 64
 *          bits of the result to "result_hi" pointer
 */

/* grade-school unsigned division (128-bit by 48-bit) with rounding to nearest */
static force_inline uint64_t
rounded_udiv_128_by_48 (uint64_t hi,
    uint64_t lo,
    uint64_t div,
    uint64_t *result_hi)
{
    uint64_t tmp, remainder, result_lo;
assert(div < ((uint64_t)1 << 48));
remainder = hi % div;
*result_hi = hi / div;

tmp = (remainder << 16) + (lo >> 48);
result_lo = tmp / div;
remainder = tmp % div;

tmp = (remainder << 16) + ((lo >> 32) & 0xFFFF);
result_lo = (result_lo << 16) + (tmp / div);
remainder = tmp % div;

tmp = (remainder << 16) + ((lo >> 16) & 0xFFFF);
result_lo = (result_lo << 16) + (tmp / div);
remainder = tmp % div;

/* round to nearest */
if (remainder * 2 >= div && ++result_lo == 0)
  *result_hi += 1;

return result_lo;
}

/* signed division (128-bit by 49-bit) with rounding to nearest */
static inline int64_t
rounded_sdiv_128_by_49 (int64_t   hi,
                        uint64_t  lo,
                        int64_t   div,
                        int64_t  *signed_result_hi)
{
  uint64_t result_lo, result_hi;
  int sign = 0;
  if (div < 0)
  {
    div = -div;
    sign ^= 1;
  }
  if (hi < 0)
  {
    if (lo != 0)
      hi++;
    hi = -hi;
    lo = -lo;
sign ^= 1;
}
result_lo = rounded_udiv_128_by_48 (hi, lo, div, &result_hi);
if (sign)
{
    if (result_lo != 0)
        result_hi++;
    result_hi = -result_hi;
    result_lo = -result_lo;
}
if (signed_result_hi)
{
    *signed_result_hi = result_hi;
}
return result_lo;
}

/*
* Multiply 64.16 fixed point value by (2^scalebits) and convert
* to 128-bit integer.
*/
static force_inline void
fixed_64_16_to_int128 (int64_t  hi,
                      int64_t  lo,
                      int64_t  *rhi,
                      int64_t  *rlo,
                      int      scalebits)
{
    /* separate integer and fractional parts */
    hi += lo >> 16;
    lo &= 0xFFFF;

    if (scalebits <= 0)
    {
        *rlo = hi >> (-scalebits);
        *rhi = *rlo >> 63;
    }
    else
    {
        *rhi = hi >> (64 - scalebits);
        *rlo = (uint64_t)hi << scalebits;
        if (scalebits < 16)
            *rlo += lo >> (16 - scalebits);
        else
            *rlo += lo << (scalebits - 16);
    }
}
static force_inline pixman_fixed_48_16_t
fixed_112_16_to_fixed_48_16 (int64_t hi, int64_t lo, pixman_bool_t *clampflag)
{
    if ((lo >> 63) != hi)
    {
        *clampflag = TRUE;
        return hi >= 0 ? INT64_MAX : INT64_MIN;
    }
    else
    {
        return lo;
    }
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_point_31_16 (const pixman_transform_t *t,
    const pixman_vector_48_16_t *v,
    pixman_vector_48_16_t       *result)
{
pixman_bool_t clampflag = FALSE;
int i;
int64_t tmp[3][2], divint;
uint16_t divfrac;

/* input vector values must have no more than 31 bits (including sign)
 * in the integer part */
assert (v->v[0] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[0] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[1] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[1] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[2] < ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[2] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));

for (i = 0; i < 3; i++)
}{
    tmp[i][0] = (int64_t)t->matrix[i][0] * (v->v[0] >> 16);
    tmp[i][1] = (int64_t)t->matrix[i][0] * (v->v[0] & 0xFFFF);
    tmp[i][0] += (int64_t)t->matrix[i][1] * (v->v[1] >> 16);
    tmp[i][1] += (int64_t)t->matrix[i][1] * (v->v[1] & 0xFFFF);
    tmp[i][0] += (int64_t)t->matrix[i][2] * (v->v[2] >> 16);
    tmp[i][1] += (int64_t)t->matrix[i][2] * (v->v[2] & 0xFFFF);
}

/*
 * separate 64-bit integer and 16-bit fractional parts for the divisor,
 * which is also scaled by 65536 after fixed point multiplication.
 */
divint = tmp[2][0] + (tmp[2][1] >> 16);
divfrac = tmp[2][1] & 0xFFFF;

if (divint == pixman_fixed_1 &&& divfrac == 0)
{
    /* this is a simple affine transformation */
    result->v[0] = tmp[0][0] + ((tmp[0][1] + 0x8000) >> 16);
    result->v[1] = tmp[1][0] + ((tmp[1][1] + 0x8000) >> 16);
    result->v[2] = pixman_fixed_1;
}
else if (divint == 0 &&& divfrac == 0)
{
    /* handle zero divisor (if the values are non-zero, set the
     * results to maximum positive or minimum negative) */
    clampflag = TRUE;

    result->v[0] = tmp[0][0] + ((tmp[0][1] + 0x8000) >> 16);
    result->v[1] = tmp[1][0] + ((tmp[1][1] + 0x8000) >> 16);

    if (result->v[0] > 0)
        result->v[0] = INT64_MAX;
    else if (result->v[0] < 0)
        result->v[0] = INT64_MIN;

    if (result->v[1] > 0)
        result->v[1] = INT64_MAX;
    else if (result->v[1] < 0)
        result->v[1] = INT64_MIN;
}
else
/*
 projective transformation, analyze the top 32 bits of the divisor
 */
int32_t hi32divbits = divint >> 32;
if (hi32divbits < 0)
    hi32divbits = ~hi32divbits;
if (hi32divbits == 0)
{
    /* the divisor is small, we can actually keep all the bits */
    int64_t hi, rhi, lo, rlo;
    int64_t div = (divint << 16) + divfrac;
    fixed_64_16_to_int128 (tmp[0][0], tmp[0][1], &hi, &lo, 32);
    rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
    result->v[0] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);
    fixed_64_16_to_int128 (tmp[1][0], tmp[1][1], &hi, &lo, 32);
    rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
    result->v[1] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);
}
else
{
    /* the divisor needs to be reduced to 48 bits */
    int64_t hi0, lo0, hi1, lo1;
    int shift = 32 - count_leading_zeros (hi32divbits);
    fixed_64_16_to_int128 (divint, divfrac, &hi, &div, 16 - shift);
    fixed_64_16_to_int128 (tmp[0][0], tmp[0][1], &hi, &lo, 32 - shift);
    rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
    result->v[0] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);
    fixed_64_16_to_int128 (tmp[1][0], tmp[1][1], &hi, &lo, 32 - shift);
    rlo = rounded_sdiv_128_by_49 (hi, lo, div, &rhi);
    result->v[1] = fixed_112_16_to_fixed_48_16 (rhi, rlo, &clampflag);
}
result->v[2] = pixman_fixed_1;
return !clampflag;
}

PIXMAN_EXPORT void
pixman_transform_point_31_16_affine (const pixman_transform_t  *t,
    const pixman_vector_48_16_t *v,
    pixman_vector_48_16_t      *result)
{
    int64_t hi0, lo0, hi1, lo1;
/* input vector values must have no more than 31 bits (including sign)
 * in the integer part */
assert (v->v[0] <   ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[0] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[1] <   ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[1] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));

hi0  = (int64_t)t->matrix[0][0] * (v->v[0] >> 16);
lo0  = (int64_t)t->matrix[0][0] * (v->v[0] & 0xFFFF);
hi0 += (int64_t)t->matrix[0][1] * (v->v[1] >> 16);
lo0 += (int64_t)t->matrix[0][1] * (v->v[1] & 0xFFFF);
hi0 += (int64_t)t->matrix[0][2];

hi1  = (int64_t)t->matrix[1][0] * (v->v[0] >> 16);
lo1  = (int64_t)t->matrix[1][0] * (v->v[0] & 0xFFFF);
hi1 += (int64_t)t->matrix[1][1] * (v->v[1] >> 16);
lo1 += (int64_t)t->matrix[1][1] * (v->v[1] & 0xFFFF);
hi1 += (int64_t)t->matrix[1][2];

result->v[0] = hi0 + ((lo0 + 0x8000) >> 16);
result->v[1] = hi1 + ((lo1 + 0x8000) >> 16);
result->v[2] = pixman_fixed_1;
}

PIXMAN_EXPORT void
pixman_transform_point_31_16_3d (const pixman_transform_t* t,
 const pixman_vector_48_16_t*v,
 pixman_vector_48_16_t* result)
{
int i;
int64_t tmp[3][2];

/* input vector values must have no more than 31 bits (including sign)
 * in the integer part */
assert (v->v[0] <   ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[0] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[1] <   ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[1] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[2] <   ((pixman_fixed_48_16_t)1 << (30 + 16)));
assert (v->v[2] >= -((pixman_fixed_48_16_t)1 << (30 + 16)));

for (i = 0; i < 3; i++)
{
  tmp[i][0] = (int64_t)t->matrix[i][0] * (v->v[0] >> 16);
  tmp[i][1] = (int64_t)t->matrix[i][0] * (v->v[0] & 0xFFFF);
  tmp[i][0] += (int64_t)t->matrix[i][1] * (v->v[1] >> 16);
  tmp[i][1] += (int64_t)t->matrix[i][1] * (v->v[1] & 0xFFFF);
  tmp[i][0] += (int64_t)t->matrix[i][2] * (v->v[2] >> 16);
  tmp[i][1] += (int64_t)t->matrix[i][2] * (v->v[2] & 0xFFFF);
  tmp[i][0] = (int64_t)t->matrix[i][0] * (v->v[0] >> 16);
  tmp[i][1] = (int64_t)t->matrix[i][0] * (v->v[0] & 0xFFFF);
  tmp[i][0] += (int64_t)t->matrix[i][1] * (v->v[1] >> 16);
  tmp[i][1] += (int64_t)t->matrix[i][1] * (v->v[1] & 0xFFFF);
  tmp[i][0] += (int64_t)t->matrix[i][2] * (v->v[2] >> 16);
  tmp[i][1] += (int64_t)t->matrix[i][2] * (v->v[2] & 0xFFFF);

  result->v[0] = hi0 + ((lo0 + 0x8000) >> 16);
  result->v[1] = hi1 + ((lo1 + 0x8000) >> 16);
  result->v[2] = pixman_fixed_1;
}
tmp[i][1] += (int64_t)t->matrix[i][2] * (v->v[2] & 0xFFFF);
}

result->v[0] = tmp[0][0] + ((tmp[0][1] + 0x8000) >> 16);
result->v[1] = tmp[1][0] + ((tmp[1][1] + 0x8000) >> 16);
result->v[2] = tmp[2][0] + ((tmp[2][1] + 0x8000) >> 16);
}

PIXMAN_EXPORT void
pixman_transform_init_identity (struct pixman_transform *matrix)
{
    int i;

    memset (matrix, '0', sizeof (struct pixman_transform));
    for (i = 0; i < 3; i++)
        matrix->matrix[i][i] = F (1);
}

typedef pixman_fixed_32_32_t pixman_fixed_34_30_t;

PIXMANEXPORT pixman_bool_t
pixman_transform_point_3d (const struct pixman_transform *transform,
                             struct pixman_vector *         vector)
{
    pixman_vector_48_16_t tmp;
    tmp.v[0] = vector->vector[0];
    tmp.v[1] = vector->vector[1];

    pixman_transform_point_31_16_3d (transform, &tmp, &tmp);

    vector->vector[0] = tmp.v[0];
    vector->vector[1] = tmp.v[1];

    return vector->vector[0] == tmp.v[0] &&
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_point (const struct pixman_transform *transform,
                        struct pixman_vector *         vector)
{
    pixman_vector_48_16_t tmp;
    tmp.v[0] = vector->vector[0];
    tmp.v[1] = vector->vector[1];
if (!pixman_transform_point_31_16 (transform, &tmp, &tmp))
    return FALSE;

vector->vector[0] = tmp.v[0];
vector->vector[1] = tmp.v[1];

return vector->vector[0] == tmp.v[0] &&
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_multiply (struct pixman_transform *      dst,
           const struct pixman_transform *l,
           const struct pixman_transform *r)
{
    struct pixman_transform d;
    int dx, dy;
    int o;

    for (dy = 0; dy < 3; dy++)
    {
        for (dx = 0; dx < 3; dx++)
        {
            pixman_fixed_48_16_t v;
            pixman_fixed_32_32_t partial;

            v = 0;
            for (o = 0; o < 3; o++)
            {
                partial =
                    (pixman_fixed_32_32_t) l->matrix[dy][o] *
                    (pixman_fixed_32_32_t) r->matrix[o][dx];
                v += (partial + 0x8000) >> 16;
            }
            if (v > pixman_max_fixed_48_16 || v < pixman_min_fixed_48_16)
                return FALSE;
            d.matrix[dy][dx] = (pixman_fixed_t) v;
        }
    }

    *dst = d;
    return TRUE;
PIXMAN_EXPORT void
pixman_transform_init_scale (struct pixman_transform *t,
    pixman_fixed_t       sx,
    pixman_fixed_t       sy)
{
    memset (t, '0', sizeof (struct pixman_transform));

    t->matrix[0][0] = sx;
    t->matrix[1][1] = sy;
    t->matrix[2][2] = F (1);
}

static pixman_fixed_t
fixed_inverse (pixman_fixed_t x)
{
    return (pixman_fixed_t) ((((pixman_fixed_48_16_t) F (1)) * F (1)) / x);
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_scale (struct pixman_transform *forward,
    struct pixman_transform *reverse,
    pixman_fixed_t       sx,
    pixman_fixed_t       sy)
{
    struct pixman_transform t;

    if (sx == 0 || sy == 0)
        return FALSE;

    if (forward)
        
        pixman_transform_init_scale (&t, sx, sy);
    if (!pixman_transform_multiply (forward, &t, forward))
        return FALSE;
    
    if (reverse)
        
        pixman_transform_init_scale (&t, fixed_inverse (sx),
            fixed_inverse (sy));
    if (!pixman_transform_multiply (reverse, reverse, &t))
        return FALSE;
    
    return TRUE;
}
PIXMAN_EXPORT void
pixman_transform_init_rotate (struct pixman_transform *t,
    pixman_fixed_t   c,
    pixman_fixed_t   s)
{
    memset (t, '0', sizeof (struct pixman_transform));

    t->matrix[0][0] = c;
    t->matrix[0][1] = -s;
    t->matrix[1][0] = s;
    t->matrix[1][1] = c;
    t->matrix[2][2] = F (1);
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_rotate (struct pixman_transform *forward,
    struct pixman_transform *reverse,
    pixman_fixed_t   c,
    pixman_fixed_t   s)
{
    struct pixman_transform t;

    if (forward)
    {
        pixman_transform_init_rotate (&t, c, s);
        if (!pixman_transform_multiply (forward, &t, forward))
            return FALSE;
    }

    if (reverse)
    {
        pixman_transform_init_rotate (&t, c, -s);
        if (!pixman_transform_multiply (reverse, reverse, &t))
            return FALSE;
    }

    return TRUE;
}

PIXMAN_EXPORT void
pixman_transform_init_translate (struct pixman_transform *t,
    pixman_fixed_t   tx,
    pixman_fixed_t   ty)
{
    memset (t, '0', sizeof (struct pixman_transform));

    t->matrix[0][0] = F (1);
t->matrix[0][2] = tx;
t->matrix[1][1] = F (1);
t->matrix[1][2] = ty;
t->matrix[2][2] = F (1);
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_translate (struct pixman_transform *forward,
                        struct pixman_transform *reverse,
                        pixman_fixed_t           tx,
                        pixman_fixed_t           ty)
{
    struct pixman_transform t;

    if (forward)
    {
        pixman_transform_init_translate (&t, tx, ty);

        if (!pixman_transform_multiply (forward, &t, forward))
            return FALSE;
    }

    if (reverse)
    {
        pixman_transform_init_translate (&t, -tx, -ty);

        if (!pixman_transform_multiply (reverse, reverse, &t))
            return FALSE;
    }

    return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_bounds (const struct pixman_transform *matrix,
                   struct pixman_box16 *    b)
{
    struct pixman_vector v[4];
    int i;
    int x1, y1, x2, y2;

    v[0].vector[0] = F (b->x1);
    v[0].vector[1] = F (b->y1);
    v[0].vector[2] = F (1);

    v[1].vector[0] = F (b->x2);
    v[1].vector[1] = F (b->y1);
    v[1].vector[2] = F (1);
v[2].vector[0] = F (b->x2);
v[2].vector[1] = F (b->y2);
v[2].vector[2] = F (1);

v[3].vector[0] = F (b->x1);
v[3].vector[1] = F (b->y2);
v[3].vector[2] = F (1);

for (i = 0; i < 4; i++)
{
    if (!pixman_transform_point (matrix, &v[i]))
        return FALSE;

    x1 = pixman_fixed_to_int (v[i].vector[0]);
    y1 = pixman_fixed_to_int (v[i].vector[1]);
    x2 = pixman_fixed_to_int (pixman_fixed_ceil (v[i].vector[0]));
    y2 = pixman_fixed_to_int (pixman_fixed_ceil (v[i].vector[1]));

    if (i == 0)
    {
        b->x1 = x1;
        b->y1 = y1;
        b->x2 = x2;
        b->y2 = y2;
    }
    else
    {
        if (x1 < b->x1) b->x1 = x1;
        if (y1 < b->y1) b->y1 = y1;
        if (x2 > b->x2) b->x2 = x2;
        if (y2 > b->y2) b->y2 = y2;
    }
}

return TRUE;

PIXMAN_EXPORT pixman_bool_t
pixman_transform_invert (struct pixman_transform * dst, 
const struct pixman_transform *src)
{
    struct pixman_f_transform m;

    pixman_f_transform_from_pixman_transform (&m, src);

    if (!pixman_f_transform_invert (&m, &m))
        return FALSE;

if (!pixman_transform_from_pixman_f_transform (dst, &m))
return FALSE;

return TRUE;
}

static pixman_bool_t
within_epsilon (pixman_fixed_t a,
    pixman_fixed_t b,
    pixman_fixed_t epsilon)
{
    pixman_fixed_t t = a - b;

    if (t < 0)
    t = -t;

    return t <= epsilon;
}

#define EPSILON (pixman_fixed_t) (2)
#define IS_SAME(a, b) (within_epsilon (a, b, EPSILON))
#define IS_ZERO(a) (within_epsilon (a, 0, EPSILON))
#define IS_ONE(a) (within_epsilon (a, F (1), EPSILON))
#define IS_UNIT(a) \ 
    (within_epsilon (a, F (1), EPSILON) || \ 
    within_epsilon (a, F (-1), EPSILON) || \ 
    IS_ZERO (a))
#define IS_INT(a) (IS_ZERO (pixman_fixed_frac (a)))

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_identity (const struct pixman_transform *t)
{
    return (IS_SAME (t->matrix[0][0], t->matrix[1][1]) &&
    IS_SAME (t->matrix[0][0], t->matrix[2][2]) &&
    !IS_ZERO (t->matrix[0][0]) &&
    IS_ZERO (t->matrix[0][1]) &&
    IS_ZERO (t->matrix[0][2]) &&
    IS_ZERO (t->matrix[1][0]) &&
    IS_ZERO (t->matrix[1][2]) &&
    IS_ZERO (t->matrix[2][0]) &&
    IS_ZERO (t->matrix[2][1]));
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_scale (const struct pixman_transform *t)
{

return (IS_ZERO (t->matrix[0][0]) &&
  IS_ZERO (t->matrix[0][1]) &&
  IS_ZERO (t->matrix[0][2]) &&

  IS_ZERO (t->matrix[1][0]) &&
  IS_ZERO (t->matrix[1][2]) &&

  IS_ZERO (t->matrix[2][0]) &&
  IS_ZERO (t->matrix[2][1]) &&
  !IS_ZERO (t->matrix[2][2]));
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_int_translate (const struct pixman_transform *t)
{
  return (IS_ONE (t->matrix[0][0]) &&
  IS_ZERO (t->matrix[0][1]) &&
  IS_INT (t->matrix[0][2]) &&

  IS_ZERO (t->matrix[1][0]) &&
  IS_ONE (t->matrix[1][1]) &&
  IS_INT (t->matrix[1][2]) &&

  IS_ZERO (t->matrix[2][0]) &&
  IS_ZERO (t->matrix[2][1]) &&
  IS_ONE (t->matrix[2][2]));
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_is_inverse (const struct pixman_transform *a,
  const struct pixman_transform *b)
{
  struct pixman_transform t;

  if (!pixman_transform_multiply (&t, a, b))
    return FALSE;

  return pixman_transform_is_identity (&t);
}

PIXMAN_EXPORT void
pixman_f_transform_from_pixman_transform (struct pixman_f_transform * ft,
  const struct pixman_transform *t)
{
  int i, j;

  for (j = 0; j < 3; j++)
{  
  for (i = 0; i < 3; i++)  
    ft->m[j][i] = pixman_fixed_to_double (t->matrix[j][i]);  
}
}

PIXMAN_EXPORT pixman_bool_t
pixman_transform_from_pixman_f_transform (struct pixman_transform * t,  
const struct pixman_f_transform *ft)
{
  int i, j;

  for (j = 0; j < 3; j++)  
    {  
      for (i = 0; i < 3; i++)  
        {  
          double d = ft->m[j][i];  
          if (d < -32767.0 || d > 32767.0)  
            return FALSE;  
          d = d * 65536.0 + 0.5;  
          t->matrix[j][i] = (pixman_fixed_t) floor (d);  
        }
      }
  return TRUE;
}

PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_invert (struct pixman_f_transform * dst,  
const struct pixman_f_transform *src)
{
  static const int a[3] = { 2, 2, 1 };  
  static const int b[3] = { 1, 0, 0 };  
  pixman_f_transform_t d;  
  double det;  
  int i, j;

  det = 0;  
  for (i = 0; i < 3; i++)  
    {  
      double p;  
      int ai = a[i];  
      int bi = b[i];  
      p = src->m[i][0] * (src->m[ai][2] * src->m[bi][1] -  
                        src->m[ai][1] * src->m[bi][2]);  
      if (i == 1)  
        p = -p;  
      det += p;
    }
if (det == 0)
    return FALSE;

det = 1 / det;
for (j = 0; j < 3; j++)
{
    for (i = 0; i < 3; i++)
    {
        double p;
        int ai = a[i];
        int aj = a[j];
        int bi = b[i];
        int bj = b[j];

        p = (src->m[ai][aj] * src->m[bi][bj] -
             src->m[ai][bj] * src->m[bi][aj]);

        if (((i + j) & 1) != 0)
            p = -p;

        d.m[j][i] = det * p;
    }
}

*dst = d;

return TRUE;

PIXMEN_EXPORT pixman_bool_t
pixman_f_transform_point (const struct pixman_f_transform *t,
                        struct pixman_f_vector *         v)
{
    struct pixman_f_vector result;
    int i, j;
    double a;

    for (j = 0; j < 3; j++)
    {
        a = 0;
        for (i = 0; i < 3; i++)
            a += t->m[j][i] * v->v[i];
        result.v[j] = a;
    }

    if (!result.v[2])
return FALSE;

    for (j = 0; j < 2; j++)
    v->v[j] = result.v[j] / result.v[2];

    v->v[2] = 1;

    return TRUE;
}

PIXMAN_EXPORT void
pixman_f_transform_point_3d (const struct pixman_f_transform *t,
                              struct pixman_f_vector * v)
{
    struct pixman_f_vector result;
    int i, j;
    double a;

    for (j = 0; j < 3; j++)
    {
        a = 0;
        for (i = 0; i < 3; i++)
            a += t->m[j][i] * v->v[i];
        result.v[j] = a;
    }

    *v = result;
}

PIXMAN_EXPORT void
pixman_f_transform_multiply (struct pixman_f_transform *      dst,
                             const struct pixman_f_transform *l,
                             const struct pixman_f_transform *r)
{
    struct pixman_f_transform d;
    int dx, dy;
    int o;

    for (dy = 0; dy < 3; dy++)
    {
        for (dx = 0; dx < 3; dx++)
        {
            double v = 0;
            for (o = 0; o < 3; o++)
                v += l->m[dy][o] * r->m[o][dx];
            d.m[dy][dx] = v;
        }
    }
PIXMAN_EXPORT void
pixman_f_transform_init_scale (struct pixman_f_transform *t,
                                double    sx,
                                double    sy)
{
    t->m[0][0] = sx;
    t->m[0][1] = 0;
    t->m[0][2] = 0;
    t->m[1][0] = 0;
    t->m[1][1] = sy;
    t->m[1][2] = 0;
    t->m[2][0] = 0;
    t->m[2][1] = 0;
    t->m[2][2] = 1;
}

PIXMAN_EXPORT pixman_bool_t
pixman_f_transform_scale (struct pixman_f_transform *forward,
                          struct pixman_f_transform *reverse,
                          double    sx,
                          double    sy)
{
    struct pixman_f_transform t;

    if (sx == 0 || sy == 0)
        return FALSE;

    if (forward)
    {
        pixman_f_transform_init_scale (&t, sx, sy);
        pixman_f_transform_multiply (forward, &t, forward);
    }

    if (reverse)
    {
        pixman_f_transform_init_scale (&t, 1 / sx, 1 / sy);
        pixman_f_transform_multiply (reverse, reverse, &t);
    }

    return TRUE;
}

PIXMAN_EXPORT void
pixman_f_transform_init_rotate (struct pixman_f_transform *t,
double c, double s) {
    t->m[0][0] = c;
    t->m[0][1] = -s;
    t->m[0][2] = 0;
    t->m[1][0] = s;
    t->m[1][1] = c;
    t->m[1][2] = 0;
    t->m[2][0] = 0;
    t->m[2][1] = 0;
    t->m[2][2] = 1;
}

PIXMAN_EXPORT pixman_bool_t pixman_f_transform_rotate (struct pixman_f_transform *forward,
    struct pixman_f_transform *reverse,
    double c, double s) {
    struct pixman_f_transform t;

    if (forward)
        pixman_f_transform_init_rotate (&t, c, s);
    pixman_f_transform_multiply (forward, &t, forward);
}

    if (reverse)
        pixman_f_transform_init_rotate (&t, c, -s);
    pixman_f_transform_multiply (reverse, reverse, &t);

    return TRUE;
}

PIXMAN_EXPORT void pixman_f_transform_init_translate (struct pixman_f_transform *t,
    double tx, double ty) {
    t->m[0][0] = 1;
    t->m[0][1] = 0;
    t->m[0][2] = tx;
    t->m[1][0] = 0;
    t->m[1][1] = 1;
    t->m[1][2] = ty;
}
t->m[2][0] = 0;
t->m[2][1] = 0;
t->m[2][2] = 1;
}

PIXMAN_EXPORT pixman_bool_t pixman_f_transform_translate (struct pixman_f_transform *forward,
                                                     struct pixman_f_transform *reverse,
                                                     double tx,
                                                     double ty)
{
    struct pixman_f_transform t;

    if (forward)
    {
        pixman_f_transform_init_translate (&t, tx, ty);
        pixman_f_transform_multiply (forward, &t, forward);
    }

    if (reverse)
    {
        pixman_f_transform_init_translate (&t, -tx, -ty);
        pixman_f_transform_multiply (reverse, reverse, &t);
    }

    return TRUE;
}

PIXMAN_EXPORT pixman_bool_t pixman_f_transform_bounds (const struct pixman_f_transform *t,
                                                   struct pixman_box16 *b)
{
    struct pixman_f_vector v[4];
    int i;
    int x1, y1, x2, y2;

    v[0].v[0] = b->x1;
    v[0].v[1] = b->y1;
    v[0].v[2] = 1;
    v[1].v[0] = b->x2;
    v[1].v[1] = b->y1;
    v[1].v[2] = 1;
    v[2].v[0] = b->x2;
    v[2].v[1] = b->y2;
    v[3].v[0] = b->x1;
    v[3].v[1] = b->y2;
for (i = 0; i < 4; i++)
{
    if (!pixman_f_transform_point (t, &v[i]))
        return FALSE;

x1 = floor (v[i].v[0]);
y1 = floor (v[i].v[1]);
x2 = ceil (v[i].v[0]);
y2 = ceil (v[i].v[1]);

if (i == 0)
{
    b->x1 = x1;
    b->y1 = y1;
    b->x2 = x2;
    b->y2 = y2;
}
else
{
    if (x1 < b->x1) b->x1 = x1;
    if (y1 < b->y1) b->y1 = y1;
    if (x2 > b->x2) b->x2 = x2;
    if (y2 > b->y2) b->y2 = y2;
}
}

return TRUE;
}

PIXMAN_EXPORT void
pixman_f_transform_init_identity (struct pixman_f_transform *t)
{
    int i, j;

    for (j = 0; j < 3; j++)
    {
        for (i = 0; i < 3; i++)
        {
            t->m[j][i] = i == j ? 1 : 0;
        }
    }
}

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it with the complete corresponding machine-readable source code, which
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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
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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creates an executable that is a derivative of the Library (because it
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.118 ppp 2.4.6
1.118.1 Available under license:

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/*
 * ccp.c - PPP Compression Control Protocol.
 *
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 *
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 */

#define RCSID "$Id: ccp.c,v 1.50 2005/06/26 19:34:41 carlsonj Exp $"

#include <stdlib.h>
#include <string.h>
#include "pppd.h"
#include "fsm.h"
#include "ccp.h"
#include <net/ppp-comp.h>

#ifdef MPPE
#include "chap_ms.h" /* mppe_xxxx_key, mppe_keys_set */
#include "lcp.h" /* lcp_close(), lcp_fsm */
#endif
static const char rcsid[] = RCSID;

/*
 * Unfortunately there is a bug in zlib which means that using a
 * size of 8 (window size = 256) for Deflate compression will cause
 * buffer overruns and kernel crashes in the deflate module.
 * Until this is fixed we only accept sizes in the range 9 .. 15.
 * Thanks to James Carlson for pointing this out.
 */
#define DEFLATE_MIN_WORKS9

/*
 * Command-line options.
 */
static int setbsdcomp __P((char **));
static int setdeflate __P((char **));
static char bsd_value[8];
static char deflate_value[8];

/*
 * Option variables.
 */
#ifdef MPPE
bool refuse_mppe_stateful = 1; /* Allow stateful mode? */
#endif

static option_t ccp_option_list[] = {
    { "noccp", o_bool, &ccp_protent.enabled_flag,
        "Disable CCP negotiation" },
    { "-ccp", o_bool, &ccp_protent.enabled_flag,
        "Disable CCP negotiation", OPT_ALIAS },
    { "bsdcomp", o_special, (void *)setbsdcomp,
        "Request BSD-Compress packet compression",
        OPT_PRIO | OPT_A2STRVAL | OPT_STATIC, bsd_value },
    { "nobsdcomp", o_bool, &ccp_wantoptions[0].bsd_compress,
        "don't allow BSD-Compress", OPT_PRIOSUB | OPT_A2CLR,
        &ccp_allowoptions[0].bsd_compress },
    { "-bsdcomp", o_bool, &ccp_wantoptions[0].bsd_compress,
        "don't allow BSD-Compress", OPT_ALIAS | OPT_PRIOSUB | OPT_A2CLR,
        &ccp_allowoptions[0].bsd_compress },
    { "deflate", o_special, (void *)setdeflate,
        "request Deflate compression",
        OPT_PRIO | OPT_A2STRVAL | OPT_STATIC, deflate_value },
    { "nodeflate", o_bool, &ccp_wantoptions[0].deflate,
        "don't allow Deflate compression", OPT_PRIOSUB | OPT_A2CLR,
        &ccp_allowoptions[0].deflate },
};
{-deflate", o_bool, &ccp_wantoptions[0].deflate,
"don't allow Deflate compression", OPT_ALIAS | OPT_PRIOSUB | OPT_A2CLR,
&ccp_allowoptions[0].deflate },

{nodelatedraft", o_bool, &ccp_wantoptions[0].deflate_draft,
"don't use draft deflate #", OPT_A2COPY,
&ccp_allowoptions[0].deflate_draft },

{ "predictor1", o_bool, &ccp_wantoptions[0].predictor_1,
"request Predictor-1", OPT_PRIOSUB | 1 },
{ "nopredictor1", o_bool, &ccp_wantoptions[0].predictor_1,
"don't allow Predictor-1", OPT_PRIOSUB | OPT_A2CLR,
&ccp_allowoptions[0].predictor_1 },
{ "-predictor1", o_bool, &ccp_wantoptions[0].predictor_1,
"don't allow Predictor-1", OPT_ALIAS | OPT_PRIOSUB | OPT_A2CLR,
&ccp_allowoptions[0].predictor_1 },

#ifdef MPPE
/* MPPE options are symmetrical ... we only set wantoptions here */
{ "require-mppe", o_bool, &ccp_wantoptions[0].mppe,
"require MPPE encryption",
OPT_PRIO | MPPE_OPT_40 | MPPE_OPT_128 },
{ "+mppe", o_bool, &ccp_wantoptions[0].mppe,
"require MPPE encryption",
OPT_ALIAS | OPT_PRIO | MPPE_OPT_40 | MPPE_OPT_128 },
{ "nomppe", o_bool, &ccp_wantoptions[0].mppe,
"don't allow MPPE encryption", OPT_PRIO },
{ "-mppe", o_bool, &ccp_wantoptions[0].mppe,
"don't allow MPPE encryption", OPT_ALIAS | OPT_PRIO },

/* We use ccp_allowoptions[0].mppe as a junk var ... it is reset later */
{ "require-mppe-40", o_bool, &ccp_allowoptions[0].mppe,
"require MPPE 40-bit encryption", OPT_PRIO | OPT_A2OR | MPPE_OPT_40,
&ccp_wantoptions[0].mppe },
{ "+mppe-40", o_bool, &ccp_allowoptions[0].mppe,
"require MPPE 40-bit encryption", OPT_PRIO | OPT_A2OR | MPPE_OPT_40,
&ccp_wantoptions[0].mppe },
{ "nomppe-40", o_bool, &ccp_allowoptions[0].mppe,
"don't allow MPPE 40-bit encryption",
OPT_PRIOSUB | OPT_A2CLRB | MPPE_OPT_40, &ccp_wantoptions[0].mppe },
{ "-mppe-40", o_bool, &ccp_allowoptions[0].mppe,
"don't allow MPPE 40-bit encryption",
OPT_ALIAS | OPT_PRIOSUB | OPT_A2CLRB | MPPE_OPT_40,
&ccp_wantoptions[0].mppe },

{ "require-mppe-128", o_bool, &ccp_allowoptions[0].mppe,
"require MPPE 128-bit encryption", OPT_PRIO | OPT_A2OR | MPPE_OPT_128,
&ccp_wantoptions[0].mppe },

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{ "+mppe-128", o_bool, &ccp_allowoptions[0].mppe,
  "require MPPE 128-bit encryption",
  OPT_ALIAS | OPT_PRIO | OPT_A2OR | MPPE_OPT_128,
  &ccp_wantoptions[0].mppe },
{ "nomppe-128", o_bool, &ccp_allowoptions[0].mppe,
  "don't allow MPPE 128-bit encryption",
  OPT_PRIOSUB | OPT_A2CLRB | MPPE_OPT_128, &ccp_wantoptions[0].mppe },
{ "-mppe-128", o_bool, &ccp_allowoptions[0].mppe,
  "don't allow MPPE 128-bit encryption",
  OPT_ALIAS | OPT_PRIOSUB | OPT_A2CLRB | MPPE_OPT_128,
  &ccp_wantoptions[0].mppe },

/* strange one; we always request stateless, but will we allow stateful? */
{ "mppe-stateful", o_bool, &refuse_mppe_stateful,
  "allow MPPE stateful mode", OPT_PRIO },
{ "nomppe-stateful", o_bool, &refuse_mppe_stateful,
  "disallow MPPE stateful mode", OPT_PRIO | 1 },
#endif /* MPPE */

{ NULL }
};

/*
 * Protocol entry points from main code.
 */
static void ccp_init __P((int unit));
static void ccp_open __P((int unit));
static void ccp_close __P((int unit, char *));
static void ccp_lowerup __P((int unit));
static void ccp_lowerdown __P((int));
static void ccp_input __P((int unit, u_char *pkt, int len));
static void ccp_protrej __P((int unit));
static int  ccp_printpkt __P((u_char *pkt, int len,
   void (*printer) __P((void *, char *, ...)),
   void *arg));
static void ccp_datainput __P((int unit, u_char *pkt, int len));

struct protent ccp_protent = {
  PPP_CCP,
  ccp_init,
  ccp_input,
  ccp_protrej,
  ccp_lowerup,
  ccp_lowerdown,
  ccp_open,
  ccp_close,
  ccp_printpkt,
  ccp_datainput,
1,
"CCP",
"Compressed",
cp_option_list,
NULL,
NULL,
NULL
};

fsm ccp_fsm[NUM_PPP];
ccp_options ccp_wantoptions[NUM_PPP];/* what to request the peer to use */
ccp_options ccp_gotoptions[NUM_PPP];/* what the peer agreed to do */
ccp_options ccp_allowoptions[NUM_PPP];/* what we'll agree to do */
ccp_options ccp_hisoptions[NUM_PPP];/* what we agreed to do */

/*
 * Callbacks for fsm code.
 */
static void ccp_resetci __P((fsm *));
static int  ccp_cilen __P((fsm *));
static void ccp_addci __P((fsm *, u_char *, int *));
static int  ccp_ackci __P((fsm *, u_char *, int));
static int  ccp_nakci __P((fsm *, u_char *, int, int));
static int  ccp_rejci __P((fsm *, u_char *, int, int, int));
static void ccp_up __P((fsm *));
static void ccp_down __P((fsm *));
static int  ccp_extcode __P((fsm *, int, int, u_char *, int));
static void ccp_rack_timeout __P((void *));
static char *method_name __P((ccp_options *, ccp_options *));

static fsm_callbacks ccp_callbacks = {
  ccp_resetci,
  ccp_cilen,
  ccp_addci,
  ccp_ackci,
  ccp_nakci,
  ccp_rejci,
  ccp_reqci,
  ccp_up,
  ccp_down,
  NULL,
  NULL,
  NULL,
  NULL,
  ccp_extcode,
  "CCP"
};
/ * Do we want / did we get any compression? */
#define ANY_COMPRESS(opt) 	((opt).deflate || (opt).bsd_compress \\ 
	|| (opt).predictor_1 || (opt).predictor_2 \\ 
	|| (opt).mppe)

/*
* Local state (mainly for handling reset-reqs and reset-acks).
*/
static int ccp_localstate[NUM_PPP];
#define RACK_PENDING	1 /* waiting for reset-ack */
#define RREQ_REPEAT	2 /* send another reset-req if no reset-ack */
#define RACKTIMEOUT	1 /* second */

static int all_rejected[NUM_PPP]; /* we rejected all peer's options */

/*
* Option parsing.
*/
static int
setbsdcomp(argv)
char **argv;
{
int rbits, abits;
char *str, *endp;

str = *argv;
abits = rbits = strtol(str, &endp, 0);
if (endp != str && *endp == ',') {
str = endp + 1;
abits = strtol(str, &endp, 0);
}
if (*endp != 0 || endp == str) {
option_error("invalid parameter 's' for bsdcomp option", argv);
return 0;
}
if ((rbits != 0 && (rbits < BSD_MIN_BITS || rbits > BSD_MAX_BITS)) ||
(abits != 0 && (abits < BSD_MIN_BITS || abits > BSD_MAX_BITS))) {
option_error("bsdcomp option values must be 0 or %d .. %d",

BSD_MIN_BITS, BSD_MAX_BITS);
return 0;
}
if (rbits > 0) {
ccp_wantoptions[0].bsd_compress = 1;
ccp_wantoptions[0].bsd_bits = rbits;
} else
  ccp_wantoptions[0].bsd_compress = 0;
  if (abits > 0) {
    ccp_allowoptions[0].bsd_compress = 1;
    ccp_allowoptions[0].bsd_bits = abits;
  } else
  ccp_allowoptions[0].bsd_compress = 0;
  slprintf(bsd_value, sizeof(bsd_value),
           rbits == abits? "%d": "%d,%d", rbits, abits);

  return 1;
}

static int
setdeflate(argv)
  char **argv;
{
  int rbits, abits;
  char *str, *endp;

  str = argv;
  abits = rbits = strtol(str, &endp, 0);
  if (endp != str && *endp == ',') {
    str = endp + 1;
    abits = strtol(str, &endp, 0);
  }
  if (*endp != 0 || endp == str) {
    option_error("invalid parameter ‘%s’ for deflate option", *argv);
    return 0;
  }
  if ((rbits != 0 && (rbits < DEFLATE_MIN_SIZE || rbits > DEFLATE_MAX_SIZE))
    || (abits != 0 && (abits < DEFLATE_MIN_SIZE
    || abits > DEFLATE_MAX_SIZE))) {
    option_error("deflate option values must be 0 or %d .. %d",
               DEFLATE_MIN_SIZE, DEFLATE_MAX_SIZE);
    return 0;
  }
  if (rbits == DEFLATE_MIN_SIZE || abits == DEFLATE_MIN_SIZE) {
    if (rbits == DEFLATE_MIN_SIZE)
      rbits = DEFLATE_MIN_WORKS;
    if (abits == DEFLATE_MIN_SIZE)
      abits = DEFLATE_MIN_WORKS;
    warn("deflate option value of %d changed to %d to avoid zlib bug",
         DEFLATE_MIN_SIZE, DEFLATE_MIN_WORKS);
  }
  if (rbits > 0) {
    ccp_wantoptions[0].deflate = 1;
    ccp_wantoptions[0].deflate_size = rbits;
} else
ccp_wantoptions[0].deflate = 0;
if (abits > 0) {
ccp_allowoptions[0].deflate = 1;
ccp_allowoptions[0].deflate_size = abits;
} else
ccp_allowoptions[0].deflate = 0;
slprintf(deflate_value, sizeof(deflate_value),
   rbits == abits? "%d": "%d,%d", rbits, abits);

return 1;
}

/*
 * ccp_init - initialize CCP.
 */
static void
ccp_init(unit)
int unit;
{
    fsm *f = &ccp_fsm[unit];

    f->unit = unit;
    f->protocol = PPP_CCP;
    f->callbacks = &ccp_callbacks;
    fsm_init(f);

    memset(&ccp_wantoptions[unit], 0, sizeof(ccp_options));
    memset(&ccp_gotoptions[unit], 0, sizeof(ccp_options));
    memset(&ccp_allowoptions[unit], 0, sizeof(ccp_options));
    memset(&ccp_hisoptions[unit], 0, sizeof(ccp_options));

    ccp_wantoptions[0].deflate = 1;
    ccp_wantoptions[0].deflate_size = DEFLATE_MAX_SIZE;
    ccp_wantoptions[0].deflate_correct = 1;
    ccp_wantoptions[0].deflate_draft = 1;
    ccp_allowoptions[0].deflate = 1;
    ccp_allowoptions[0].deflate_size = DEFLATE_MAX_SIZE;
    ccp_allowoptions[0].deflate_correct = 1;
    ccp_allowoptions[0].deflate_draft = 1;

    ccp_wantoptions[0].bsd_compress = 1;
    ccp_wantoptions[0].bsd_bits = BSD_MAX_BITS;
    ccp_allowoptions[0].bsd_compress = 1;
    ccp_allowoptions[0].bsd_bits = BSD_MAX_BITS;

    ccp_allowoptions[0].predictor_1 = 1;
}
/* 
* ccp_open - CCP is allowed to come up. 
*/
static void
ccp_open(unit)
    int unit;
{
    fsm *f = &ccp_fsm[unit];

    if (f->state != OPENED)
        ccp_flags_set(unit, 1, 0);

    /*
    * Find out which compressors the kernel supports before
    * deciding whether to open in silent mode. 
    */
    ccp_resetcii(f);
    if (!ANY_COMPRESS(ccp_gotoptions[unit]))
        f->flags |= OPT_SILENT;

    fsm_open(f);
}

/*
* ccp_close - Terminate CCP.
*/
static void
ccp_close(unit, reason)
    int unit;
    char *reason;
{
    ccp_flags_set(unit, 0, 0);
    fsm_close(&ccp_fsm[unit], reason);
}

/*
* ccp_lowerup - we may now transmit CCP packets.
*/
static void
ccp_lowerup(unit)
    int unit;
{
    fsm_lowerup(&ccp_fsm[unit]);
}

/*
* ccp_lowerdown - we may not transmit CCP packets.
*/
static void ccp_lowerdown(unit)
    int unit;
{
    fsm_lowerdown(&ccp_fsm[unit]);
}

static void ccp_input(unit, p, len)
    int unit;
    u_char *p;
    int len;
{
    fsm *f = &ccp_fsm[unit];
    int oldstate;

    /*
     * Check for a terminate-request so we can print a message.
     */
    oldstate = f->state;
    fsm_input(f, p, len);
    if (oldstate == OPENED && p[0] == TERMREQ && f->state != OPENED) { notice("Compression disabled by peer.");
#else MPPE
    if (ccp_gotoptions[unit].mppe) {
        error("MPPE disabled, closing LCP");
        lcp_close(unit, "MPPE disabled by peer");
    }
#endif
    /*
     * If we get a terminate-ack and we're not asking for compression,
     * close CCP.
     */
    if (oldstate == REQSENT && p[0] == TERMACK && !ANY_COMPRESS(ccp_gotoptions[unit]))
        ccp_close(unit, "No compression negotiated");
}

/*
 * Handle a CCP-specific code.
 */
static int
ccp_extcode(f, code, id, p, len)
    fsm *f;
    int code, id;
    u_char *p;
    int len;
{
    switch (code) {
    case CCP_RESETREQ:
        if (f->state != OPENED)
            break;
        /* send a reset-ack, which the transmitter will see and
         * reset its compression state. */
        fsm_sdata(f, CCP_RESETACK, id, NULL, 0);
        break;
    case CCP_RESETACK:
        if (ccp_localstate[f->unit] & RACK_PENDING && id == f->reqid) {
            ccp_localstate[f->unit] &= ~(RACK_PENDING | RREQ_REPEAT);
            UNTIMEOUT(ccp_rack_timeout, f);
        }
        break;
    default:
        return 0;
    }
    return 1;
}

/*
 * ccp_protrej - peer doesn't talk CCP.
 */
static void
ccp_protrej(unit)
    int unit;
{
    ccp_flags_set(unit, 0, 0);
    fsm_lowerdown(&ccp_fsm[unit]);
#endif
    if (ccp_gotoptions[unit].mppe) {
        error("MPPE required but peer negotiation failed");
        lcp_close(unit, "MPPE required but peer negotiation failed");
    } #endif
}
/*
 * ccp_resetci - initialize at start of negotiation.
 */
static void
ccpResetci(f)
  fsm *f;
{
  ccp_options *go = &ccp_gotoptions[f->unit];
  u_char opt_buf[CCP_MAX_OPTION_LENGTH];

  *go = ccp_wantoptions[f->unit];
  all_rejected[f->unit] = 0;

#ifdef MPPE
  if (go->mppe) {
    ccp_options *ao = &ccp_allowoptions[f->unit];
    int auth_mschap_bits = auth_done[f->unit];
    int numbits;

    /* Start with a basic sanity check: mschap[v2] auth must be in
    * exactly one direction. RFC 3079 says that the keys are
    * 'derived from the credentials of the peer that initiated the call',
    * however the PPP protocol doesn't have such a concept, and pppd
    * cannot get this info externally. Instead we do the best we can.
    * NB: If MPPE is required, all other compression opts are invalid.
    * So, we return right away if we can't do it.
    */

    /* Leave only the mschap auth bits set */
    auth_mschap_bits &= (CHAP_MS_WITHPEER | CHAP_MS_PEER |
      CHAP_MS2_WITHPEER | CHAP_MS2_PEER);

    /* Count the mschap auths */
    auth_mschap_bits >>= CHAP_MS_SHIFT;
    numbits = 0;
    do {
      numbits += auth_mschap_bits & 1;
      auth_mschap_bits >>= 1;
    } while (auth_mschap_bits);
    if (numbits > 1) {
      error("MPPE required, but auth done in both directions.");
      lcp_close(f->unit, "MPPE required but not available");
      return;
    }
    if (!numbits) {
      error("MPPE required, but MS-CHAP[v2] auth not performed.");
      lcp_close(f->unit, "MPPE required but not available");
      return;
    }
  }
#endif
}
if (!mppe_keys_set) {
    error("MPPE required, but keys are not available. ")
    "Possible plugin problem?");
    lcp_close(f->unit, "MPPE required but not available");
    return;
}

/* LM auth not supported for MPPE */
if (auth_done[f->unit] & (CHAP_MS_WITHPEER | CHAP_MS_PEER)) {
    /* This might be noise */
    if (go->mppe & MPPE_OPT_40) {
        notice("Disabling 40-bit MPPE; MS-CHAP LM not supported");
        go->mppe &= ~MPPE_OPT_40;
        ccp_wantoptions[f->unit].mppe &= ~MPPE_OPT_40;
    }
}

/* Last check: can we actually negotiate something? */
if (!(go->mppe & (MPPE_OPT_40 | MPPE_OPT_128))) {
    /* Could be misconfig, could be 40-bit disabled above. */
    error("MPPE required, but both 40-bit and 128-bit disabled.");
    lcp_close(f->unit, "MPPE required but not available");
    return;
}

/* sync options */
ao->mppe = go->mppe;
/* MPPE is not compatible with other compression types */
ao->bsd_compress = go->bsd_compress = 0;
ao->predictor_1 = go->predictor_1 = 0;
ao->predictor_2 = go->predictor_2 = 0;
ao->deflate = go->deflate = 0;
}
#endif /* MPPE */

#ifdef MPPE
    if (go->mppe) {
        opt_buf[0] = CI_MPPE;
        opt_buf[1] = CILEN_MPPE;
        MPPE_OPTS_TO_CI(go->mppe, &opt_buf[2]);
        /* Key material unimportant here. */
#endif /* MPPE */
if (ccp_test(f->unit, opt_buf, CILEN_MPPE + MPPE_MAX_KEY_LEN, 0) <= 0) {
    error("MPPE required, but kernel has no support.");
    lcp_close(f->unit, "MPPE required but not available");
}

#if endif

if (go->bsd_compress) {
    opt_buf[0] = CI_BSD_COMPRESS;
    opt_buf[1] = CILEN_BSD_COMPRESS;
    opt_buf[2] = BSD_MAKE_OPT(BSD_CURRENT_VERSION, BSD_MIN_BITS);
    if (ccp_test(f->unit, opt_buf, CILEN_BSD_COMPRESS, 0) <= 0)
        go->bsd_compress = 0;
}

if (go->deflate) {
if (go->deflate_correct) {
    opt_buf[0] = CI_DEFLATE;
    opt_buf[1] = CILEN_DEFLATE;
    opt_buf[2] = DEFLATE_MAKE_OPT(DEFLATE_MIN_WORKS);
    opt_buf[3] = DEFLATE_CHK_SEQUENCE;
    if (ccp_test(f->unit, opt_buf, CILEN_DEFLATE, 0) <= 0)
        go->deflate_correct = 0;
}

if (go->deflate_draft) {
    opt_buf[0] = CI_DEFLATE_DRAFT;
    opt_buf[1] = CILEN_DEFLATE;
    opt_buf[2] = DEFLATE_MAKE_OPT(DEFLATE_MIN_WORKS);
    opt_buf[3] = DEFLATE_CHK_SEQUENCE;
    if (ccp_test(f->unit, opt_buf, CILEN_DEFLATE, 0) <= 0)
        go->deflate_draft = 0;
}

if (!go->deflate_correct && !go->deflate_draft)
    go->deflate = 0;
}

if (go->predictor_1) {
    opt_buf[0] = CI_PREDICTOR_1;
    opt_buf[1] = CILEN_PREDICTOR_1;
    if (ccp_test(f->unit, opt_buf, CILEN_PREDICTOR_1, 0) <= 0)
        go->predictor_1 = 0;
    }

if (go->predictor_2) {
    opt_buf[0] = CI_PREDICTOR_2;
    opt_buf[1] = CILEN_PREDICTOR_2;
    if (ccp_test(f->unit, opt_buf, CILEN_PREDICTOR_2, 0) <= 0)
        go->predictor_2 = 0;
}

/*
static int ccp_cilen(fsm *f)
{
    ccp_options *go = &ccp_gotoptions[f->unit];

    return (go->bsd_compress? CILEN_BSD_COMPRESS: 0) + (go->deflate? CILEN_DEFLATE: 0) + (go->predictor_1? CILEN_PREDICTOR_1: 0) + (go->predictor_2? CILEN_PREDICTOR_2: 0) + (go->mppe? CILEN_MPPE: 0);
}

static void ccp_addci(fsm *f, u_char *p, int *lenp)
{
    int res;
    ccp_options *go = &ccp_gotoptions[f->unit];
    u_char *p0 = p;
    int *lenp;

    u_char *p0 = p;

    if (go->mppe) {
        u_char opt_buf[CILEN_MPPE + MPPE_MAX_KEY_LEN];
        p[0] = optbuf[0] = CI_MPPE;
        MPPE_OPTS_TO_CI(go->mppe, &p[2]);
        MPPE_OPTS_TO_CI(go->mppe, &optbuf[2]);
        BCOPY(mppe_recv_key, &optbuf[CILEN_MPPE], MPPE_MAX_KEY_LEN);
        res = ccp_test(f->unit, optbuf, CILEN_MPPE + MPPE_MAX_KEY_LEN, 0);
        if (res > 0)
            p += CILEN_MPPE;
        else
            /* This shouldn't happen, we've already tested it! */
            lcp_close(f->unit, "MPPE required but not available in kernel");
    }

*/
* Add the compression types that we can receive, in decreasing
* preference order. Get the kernel to allocate the first one
* in case it gets Acked.
*/
#endif MPPE
if (go->deflate) {
    p[0] = go->deflate_correct? CI_DEFLATE: CI_DEFLATE_DRAFT;
    p[1] = CILEN_DEFLATE;
    p[2] = DEFLATE_MAKE_OPT(go->deflate_size);
    p[3] = DEFLATE_CHK_SEQUENCE;
    if (p != p0) {
        p += CILEN_DEFLATE;
    } else {
        for (;;) {
            if (go->deflate_size < DEFLATE_MIN_WORKS) {
                go->deflate = 0;
                break;
            } else if (res < 0) {
                go->deflate = 0;
                break;
            } -=go->deflate_size;
            p[2] = DEFLATE_MAKE_OPT(go->deflate_size);
        }
    }
    if (p != p0 && go->deflate_correct && go->deflate_draft) {
        p[0] = CI_DEFLATE_DRAFT;
        p[1] = CILEN_DEFLATE;
        p[3] = DEFLATE_CHK_SEQUENCE;
        p += CILEN_DEFLATE;
    }
    if (go->bsd_compress) {
        p[0] = CI_BSD_COMPRESS;
        p[1] = CILEN_BSD_COMPRESS;
        p[2] = BSD_MAKE_OPT(BSD_CURRENT_VERSION, go->bsd_bits);
        if (p != p0) {
            p += CILEN_BSD_COMPRESS;/* not the first option */
        } else {
            for (;;) {
                if (go->bsd_bits < BSD_MIN_BITS) {
                    go->bsd_compress = 0;
                    break;
                }
            }
        }
    }
    res = ccp_test(f->unit, p, CILEN_BSD_COMPRESS, 0);
if (res > 0) {
    p += CILEN_BSD_COMPRESS;
    break;
} else if (res < 0) {
    go->bsd_compress = 0;
    break;
}
--go->bsd_bits;
p[2] = BSD_MAKE_OPT(BSD_CURRENT_VERSION, go->bsd_bits);
}
/* XXX Should Predictor 2 be preferable to Predictor 1? */
if (go->predictor_1) {
    p[0] = CI_PREDICTOR_1;
    p[1] = CILEN_PREDICTOR_1;
    if (p == p0 && ccp_test(f->unit, p, CILEN_PREDICTOR_1, 0) <= 0) {
        go->predictor_1 = 0;
    } else {
        p += CILEN_PREDICTOR_1;
    }
    if (go->predictor_2) {
        p[0] = CI_PREDICTOR_2;
        p[1] = CILEN_PREDICTOR_2;
        if (p == p0 && ccp_test(f->unit, p, CILEN_PREDICTOR_2, 0) <= 0) {
            go->predictor_2 = 0;
        } else {
            p += CILEN_PREDICTOR_2;
        }
    }
    go->method = (p > p0)? p0[0]: -1;

    *lenp = p - p0;
}
/*
* ccp_ackci - process a received configure-ack, and return
* 1 iff the packet was OK.
*/
static int
ccp_ackci(f, p, len)
    fsm *f;
    u_char *p;
    int len;
{
    ccp_options *go = &ccp_gotoptions[f->unit];

u_char *p0 = p;

#ifdef MPPE
    if (go->mppe) {
        u_char opt_buf[CILEN_MPPE];

        opt_buf[0] = CI_MPPE;
        opt_buf[1] = CILEN_MPPE;
        MPPE_OPTS_TO_CI(go->mppe, &opt_buf[2]);
        if (len < CILEN_MPPE || memcmp(opt_buf, p, CILEN_MPPE))
            return 0;
        p += CILEN_MPPE;
        len -= CILEN_MPPE;
    } /* XXX Cope with first/fast ack */
#endif

if (go->deflate) {
    if (len < CILEN_DEFLATE
        || p[0] != (go->deflate_correct? CI_DEFLATE: CI_DEFLATE_DRAFT)
        || p[1] != CILEN_DEFLATE
        return 0;
    p += CILEN_DEFLATE;
    len -= CILEN_DEFLATE;
    /* XXX Cope with first/fast ack */
    if (len == 0)
        return 1;
    if (go->deflate_correct && go->deflate_draft) {
        if (len < CILEN_DEFLATE
            || p[0] != CI_DEFLATE_DRAFT
            || p[1] != CILEN_DEFLATE
            return 0;
        p += CILEN_DEFLATE;
        len -= CILEN_DEFLATE;
    }
}

if (go->bsd_compress) {
    if (len < CILEN_BSD_COMPRESS
        || p[0] != CI_BSD_COMPRESS || p[1] != CILEN_BSD_COMPRESS
        || p[2] != BSD_MAKE_OPT(BSD_CURRENT_VERSION, go->bsd_bits))
        return 0;
    p += CILEN_BSD_COMPRESS;
    len -= CILEN_BSD_COMPRESS;
/ XXX Cope with first/fast ack */
if (p == p0 && len == 0)
    return 1;
}
if (go->predictor_1) {
if (len < CILEN_PREDICTOR_1
    || p[0] != CI_PREDICTOR_1 || p[1] != CILEN_PREDICTOR_1)
return 0;
p += CILEN_PREDICTOR_1;
len -= CILEN_PREDICTOR_1;
/* XXX Cope with first/fast ack */
if (p == p0 && len == 0)
    return 1;
}
if (go->predictor_2) {
if (len < CILEN_PREDICTOR_2
    || p[0] != CI_PREDICTOR_2 || p[1] != CILEN_PREDICTOR_2)
return 0;
p += CILEN_PREDICTOR_2;
len -= CILEN_PREDICTOR_2;
/* XXX Cope with first/fast ack */
if (p == p0 && len == 0)
    return 1;
}

if (len != 0)
return 0;
return 1;

/*
* ccp_nakci - process received configure-nak.
* Returns 1 iff the nak was OK.
*/
static int
ccp_nakci(f, p, len, treat_as_reject)
    fsm *f;
    u_char *p;
    int len;
    int treat_as_reject;
{
    ccp_options *go = &ccp_gotoptions[f->unit];
    ccp_options no;/* options we've seen already */
    ccp_options try;/* options to ask for next time */

    memset(&no, 0, sizeof(no));
    try = *go;
#ifdef MPPE
    if (go->mppe && len >= CILEN_MPPE && p[0] == CI_MPPE && p[1] == CILEN_MPPE) {
        no.mppe = 1;
        /*
         * Peer wants us to use a different strength or other setting.
         * Fail if we aren't willing to use his suggestion.
         */
        MPPE_CI_TO_OPTS(&p[2], try.mppe);
        if ((try.mppe & MPPE_OPT_STATEFUL) && refuse_mppe_stateful) {
            error("Refusing MPPE stateful mode offered by peer");
            try.mppe = 0;
        } else if (((go->mppe | MPPE_OPT_STATEFUL) & try.mppe) != try.mppe) {
            /* Peer must have set options we didn't request (suggest) */
            try.mppe = 0;
        }
    }
#endif /* MPPE */
if (go->deflate && len >= CILEN_DEFLATE && p[0] == (go->deflate_correct? CI_DEFLATE: CI_DEFLATE_DRAFT) && p[1] == CILEN_DEFLATE) {
    no.deflate = 1;
    /*
     * Peer wants us to use a different code size or something.
     * Stop asking for Deflate if we don't understand his suggestion.
     */
    if (DEFLATE_METHOD(p[2]) != DEFLATE_METHOD_VAL
        || DEFLATE_SIZE(p[2]) < DEFLATE_MIN_WORKS
        try.deflate = 0;
    else if (DEFLATE_SIZE(p[2]) < go->deflate_size)
        try.deflate_size = DEFLATE_SIZE(p[2]);
    p += CILEN_DEFLATE;
    len -= CILEN_DEFLATE;
    if (go->deflate_correct && go->deflate_draft
        && len >= CILEN_DEFLATE && p[0] == CI_DEFLATE_DRAFT && p[1] == CILEN_DEFLATE) {
        p += CILEN_DEFLATE;
        len -= CILEN_DEFLATE;
    }
}
if (go->bsd_compress && len >= CILEN_BSD_COMPRESS
& p[0] == CI_BSD_COMPRESS && p[1] == CILEN_BSD_COMPRESS) { 
  no.bsd_compress = 1;
*/
  /*
   * Peer wants us to use a different number of bits
   * or a different version.
   */
  if (BSD_VERSION(p[2]) != BSD_CURRENT_VERSION)
  try.bsd_compress = 0;
else if (BSD_NBITS(p[2]) < go->bsd_bits)
  try.bsd_bits = BSD_NBITS(p[2]);
p += CILEN_BSD_COMPRESS;
len -= CILEN_BSD_COMPRESS;
} 
*/
  /*
   * Predictor-1 and 2 have no options, so they can't be Naked.
   *
   * There may be remaining options but we ignore them.
   */
  if (f->state != OPENED)
  *go = try;
  return 1;
}
*/
  /*
   * ccp_rejci - reject some of our suggested compression methods.
   */
static int
ccp_rejci(f, p, len)
  fsm *f;
  u_char *p;
  int len;
{
  ccp_options *go = &ccp_gotoptions[f->unit];
  ccp_options try;/* options to request next time */

  try = *go;

  /*
   * Cope with empty configure-rejects by ceasing to send
   * configure-requests.
   */
  if (len == 0 && all_rejected[f->unit])
    return -1;

#endif MPPE
  if (go->mppe && len >= CILEN_MPPE
&

```c
&& p[0] == CI_MPPE && p[1] == CILEN_MPPE) {
error("MPPE required but peer refused");
lcp_close(f->unit, "MPPE required but peer refused");
p += CILEN_MPPE;
len -= CILEN_MPPE;
}
#endif
if (go->deflate_correct && len >= CILEN_DEFLATE
&& p[0] == CI_DEFLATE && p[1] == CILEN_DEFLATE) {
if (p[2] != DEFLATE_MAKE_OPT(go->deflate_size)
    return 0; /* Rej is bad */
try.deflate_correct = 0;
p += CILEN_DEFLATE;
len -= CILEN_DEFLATE;
}
if (go->deflate_draft && len >= CILEN_DEFLATE
&& p[0] == CI_DEFLATE_DRAFT && p[1] == CILEN_DEFLATE) {
if (p[2] != DEFLATE_MAKE_OPT(go->deflate_size)
    return 0; /* Rej is bad */
try.deflate_draft = 0;
p += CILEN_DEFLATE;
len -= CILEN_DEFLATE;
}
if (!try.deflate_correct && !try.deflate_draft)
try.deflate = 0;
if (go->bsd_compress && len >= CILEN_BSD_COMPRESS
&& p[0] == CI_BSD_COMPRESS && p[1] == CILEN_BSD_COMPRESS) {
if (p[2] != BSD_MAKE_OPT(BSD_CURRENT_VERSION, go->bsd_bits))
    return 0;
try.bsd_compress = 0;
p += CILEN_BSD_COMPRESS;
len -= CILEN_BSD_COMPRESS;
}
if (go->predictor_1 && len >= CILEN_PREDICTOR_1
&& p[0] == CI_PREDICTOR_1 && p[1] == CILEN_PREDICTOR_1) {
try.predictor_1 = 0;
p += CILEN_PREDICTOR_1;
len -= CILEN_PREDICTOR_1;
}
if (go->predictor_2 && len >= CILEN_PREDICTOR_2
&& p[0] == CI_PREDICTOR_2 && p[1] == CILEN_PREDICTOR_2) {
try.predictor_2 = 0;
p += CILEN_PREDICTOR_2;
len -= CILEN_PREDICTOR_2;
}
```
if (len != 0)
return 0;

if (f->state != OPENED)
*go = try;

    return 1;
}

/*
 * ccp_reqci - processed a received configure-request.
 * Returns CONFACK, CONFNAK or CONFREJ and the packet modified
 * appropriately.
 * /
static int
ccp_reqci(f, p, lenp, dont_nak)
    fsm *f;
    u_char *p;
    int *lenp;
    int dont_nak;
{
    int ret, newret, res;
    u_char *p0, *retp;
    int len, clen, type, nb;
    ccp_options *ho = &ccp_hisoptions[f->unit];
    ccp_options *ao = &ccp_allowoptions[f->unit];
    #ifdef MPPE
    bool rej_for_ci_mppe = 1;/* Are we rejecting based on a bad/missing */
    /* CI_MPPE, or due to other options? */
    endif

    ret = CONFACK;
    retp = p0 = p;
    len = *lenp;

    memset(ho, 0, sizeof(ccp_options));
    ho->method = (len > 0)? p[0]: -1;

    while (len > 0) {
        newret = CONFACK;
        if (len < 2 || p[1] < 2 || p[1] > len) {
            /* length is bad */
            clen = len;
            newret = CONFREJ;
        } else {
            type = p[0];
            clen = p[1];

    /* length is good */
            newret = CONFACK;
            while (len > 0) {
                newret = CONFACK;
                if (len < 2 || p[1] < 2 || p[1] > len) {
                    /* length is bad */
                    clen = len;
                    newret = CONFREJ;
                } else {
                    type = p[0];
                    clen = p[1];

    /* length is good */
                    newret = CONFACK;
                }
            }
        }
    }
    if (rej_for_ci_mppe) {
        /* Rejected based on CI_MPPE */
        newret = CONFREJ;
    }
    return newret;
}
switch (type) {
    #ifdef MPPE
        case CI_MPPE:
            if (!ao->mppe || clen != CILEN_MPPE) {
                newret = CONFREJ;
                break;
            }
            MPPE_CI_TO_OPTS(&p[2], ho->mppe);
    
    /* Nak if anything unsupported or unknown are set. */
    if (ho->mppe & MPPE_OPT_UNSUPPORTED) {
        newret = CONFNAK;
        ho->mppe &= ~MPPE_OPT_UNSUPPORTED;
    }
    if (ho->mppe & MPPE_OPT_UNKNOWN) {
        newret = CONFNAK;
        ho->mppe &= ~MPPE_OPT_UNKNOWN;
    }

    /* Check state opt */
    if (ho->mppe & MPPE_OPT_STATEFUL) {
        /*
        * We can Nak and request stateless, but it's a
        * lot easier to just assume the peer will request
        * it if he can do it; stateful mode is bad over
        * the Internet -- which is where we expect MPPE.
        */
        if (refuse_mppe_stateful) {
            error("Refusing MPPE stateful mode offered by peer");
            newret = CONFREJ;
            break;
        }
    }

    /* Find out which of {S,L} are set. */
    if ((ho->mppe & MPPE_OPT_128)
        && (ho->mppe & MPPE_OPT_40)) {
        /* Both are set, negotiate the strongest. */
        newret = CONFNAK;
        if (ao->mppe & MPPE_OPT_128)
            ho->mppe &= ~MPPE_OPT_40;
        else if (ao->mppe & MPPE_OPT_40)
            ho->mppe &= ~MPPE_OPT_128;
        else {
            newret = CONFREJ;
            break;
        }
    }
} else if (ho->mppe & MPPE_OPT_128) {
    if (!(ao->mppe & MPPE_OPT_128)) {
        newret = CONFREJ;
        break;
    }
}
} else if (ho->mppe & MPPE_OPT_40) {
    if (!(ao->mppe & MPPE_OPT_40)) {
        newret = CONFREJ;
        break;
    }
} else {
    /* Neither are set. */
    /* We cannot accept this. */
    newret = CONFNAK;
    /* Give the peer our idea of what can be used,
    so it can choose and confirm */
    ho->mppe = ao->mppe;
}
/* rebuild the opts */
MPPE_OPTS_TO_CI(ho->mppe, &p[2]);
if (newret == CONFACK) {
    u_char opt_buf[CILEN_MPPE + MPPE_MAX_KEY_LEN];
    int mtu;

    BCOPY(p, opt_buf, CILEN_MPPE);
    BCOPY(mppe_send_key, &opt_buf[CILEN_MPPE],
         MPPE_MAX_KEY_LEN);
    if (ccp_test(f->unit, opt_buf,
             CILEN_MPPE + MPPE_MAX_KEY_LEN, 1) <= 0) {
        /* This shouldn't happen, we've already tested it! */
        error("MPPE required, but kernel has no support.");
        lcp_close(f->unit, "MPPE required but not available");
        newret = CONFREJ;
        break;
    }
    /*
    * We need to decrease the interface MTU by MPPE_PAD
    * because MPPE frames **grow**. The kernel [must]
    * allocate MPPE_PAD extra bytes in xmit buffers.
    */
    mtu = netif_get_mtu(f->unit);
    if (mtu)
        netif_set_mtu(f->unit, mtu - MPPE_PAD);
    else
        newret = CONFREJ;
}
We have accepted MPPE or are willing to negotiate MPPE parameters. A CONFREJ is due to subsequent (non-MPPE) processing.

rej_for_ci_mppe = 0;
break;
#endif /* MPPE */
case CI_DEFLATE:
case CI_DEFLATE_DRAFT:
if (!ao->deflate || clen != CILEN_DEFLATE
 || (!ao->deflate_correct && type == CI_DEFLATE)
 || (!ao->deflate_draft && type == CI_DEFLATE_DRAFT)) {
    newret = CONFREJ;
    break;
}

ho->deflate = 1;
ho->deflate_size = nb = DEFLATE_SIZE(p[2]);
if (DEFLATE_METHOD(p[2]) != DEFLATE_METHOD_VAL
 || p[3] != DEFLATE_CHK_SEQUENCE
 || nb > ao->deflate_size || nb < DEFLATE_MIN_WORKS) {
    newret = CONFNAK;
    if (!dont_nak) {
        p[2] = DEFLATE_MAKE_OPT(ao->deflate_size);
        p[3] = DEFLATE_CHK_SEQUENCE;
        /* fall through to test this #bits below */
    } else
    break;
}

/*
 * Check whether we can do Deflate with the window
 * size they want. If the window is too big, reduce
 * it until the kernel can cope and nak with that.
 * We only check this for the first option.
 */
if (p == p0) {
    for (;;) {
        res = ccp_test(f->unit, p, CILEN_DEFLATE, 1);
        if (res > 0)
            break; /* it's OK now */
        if (res < 0 || nb == DEFLATE_MIN_WORKS || dont_nak) {
            newret = CONFREJ;
            p[2] = DEFLATE_MAKE_OPT(ho->deflate_size);
            break;
        }
    }
    newret = CONFNAK;
--nb;
p[2] = DEFLATE_MAKE_OPT(nb);
}
}
break;

case CI_BSD_COMPRESS:
if (!ao->bsd_compress || clen != CILEN_BSD_COMPRESS) {
    newret = CONFREJ;
    break;
}
}

ho->bsd_compress = 1;
ho->bsd_bits = nb = BSD_NBITS(p[2]);
if (BSD_VERSION(p[2]) != BSD_CURRENT_VERSION
    || nb > ao->bsd_bits || nb < BSD_MIN_BITS) {
    newret = CONFNAK;
    if (!dont_nak) {
        p[2] = BSD_MAKE_OPT(BSD_CURRENT_VERSION, ao->bsd_bits);
        /* fall through to test this #bits below */
    } else
    break;
}

/*
 * Check whether we can do BSD-Compress with the code
 * size they want. If the code size is too big, reduce
 * it until the kernel can cope and nak with that.
 * We only check this for the first option.
 */
if (p == p0) {
    for (;;) {
        res = ccp_test(f->unit, p, CILEN_BSD_COMPRESS, 1);
        if (res > 0)
            break;
        if (res < 0 || nb == BSD_MIN_BITS || dont_nak) {
            newret = CONFREJ;
            p[2] = BSD_MAKE_OPT(BSD_CURRENT_VERSION,
                               ho->bsd_bits);
            break;
        }
    }
    newret = CONFNAK;
    --nb;
    p[2] = BSD_MAKE_OPT(BSD_CURRENT_VERSION, nb);
    }
    }
    break;
case CI_PREDICTOR_1:
if (!(ao->predictor_1 || clen != CILEN_PREDICTOR_1)) {
    newret = CONFREJ;
    break;
}

ho->predictor_1 = 1;
if (p == p0
    && ccp_test(f->unit, p, CILEN_PREDICTOR_1, 1) <= 0) {
    newret = CONFREJ;
}
break;

case CI_PREDICTOR_2:
if (!(ao->predictor_2 || clen != CILEN_PREDICTOR_2)) {
    newret = CONFREJ;
    break;
}

ho->predictor_2 = 1;
if (p == p0
    && ccp_test(f->unit, p, CILEN_PREDICTOR_2, 1) <= 0) {
    newret = CONFREJ;
}
break;

default:
newret = CONFREJ;
}
}

if (newret == CONFNAK && dont_nak)
newret = CONFREJ;
if (!(newret == CONFACK || (newret == CONFNAK && ret == CONFREJ))) {
/* we're returning this option */
if (newret == CONFREJ && ret == CONFNAK)
retp = p0;
    ret = newret;
    if (p != retp)
BCOPY(p, retp, clen);
    retp += clen;
}

p += clen;
len -= clen;
}

if (ret != CONFACK) {
if (ret == CONFREJ && *lenp == retp - p0)
    all_rejected[f->unit] = 1;
else
    *lenp = retp - p0;
}
#endif
#endif
#endif
return ret;
}

/*
 * Make a string name for a compression method (or 2).
 */
static char *
method_name(opt, opt2)
    ccp_options *opt, *opt2;
{
    static char result[64];

    if (!ANY_COMPRESS(*opt))
        return "(none)";
    switch (opt->method) {
        #ifdef MPPE
            case CI_MPPE:
            {
                char *p = result;
                char *q = result + sizeof(result); /* 1 past result */
                slprintf(p, q - p, "MPPE ");
                p += 5;
                if (opt->mppe & MPPE_OPT_128) {
                    slprintf(p, q - p, "128-bit ");
                    p += 8;
                }
                if (opt->mppe & MPPE_OPT_40) {
                    slprintf(p, q - p, "40-bit ");
                    p += 7;
                }
            }
            case CI_MPPE:
            {
                char *p = result;
                char *q = result + sizeof(result); /* 1 past result */
                slprintf(p, q - p, "MPPE ");
                p += 5;
                if (opt->mppe & MPPE_OPT_128) {
                    slprintf(p, q - p, "128-bit ");
                    p += 8;
                }
                if (opt->mppe & MPPE_OPT_40) {
                    slprintf(p, q - p, "40-bit ");
                    p += 7;
                }
            }
            break;
case CI_DEFLATE:
    case CI_DEFLATE_DRAFT:
        if (opt2 != NULL && opt2->deflate_size != opt->deflate_size)
            slprintf(result, sizeof(result), "Deflate%s (%d/%d)",
                    (opt->method == CI_DEFLATE_DRAFT? "(old#)": ""),
                    opt->deflate_size, opt2->deflate_size);
        else
            slprintf(result, sizeof(result), "Deflate%s (%d)",
                    (opt->method == CI_DEFLATE_DRAFT? "(old#)": ""),
                    opt->deflate_size);
        break;
    case CI_BSD_COMPRESS:
        if (opt2 != NULL && opt2->bsd_bits != opt->bsd_bits)
            slprintf(result, sizeof(result), "BSD-Compress (%d/%d)",
                    opt->bsd_bits, opt2->bsd_bits);
        else
            slprintf(result, sizeof(result), "BSD-Compress (%d)",
                    opt->bsd_bits);
        break;
    case CI_PREDICTOR_1:
        return "Predictor 1";
    case CI_PREDICTOR_2:
        return "Predictor 2";
    default:
        slprintf(result, sizeof(result), "Method %d", opt->method);
        return result;
    }

;/*
 * CCP has come up - inform the kernel driver and log a message.
 */
static void
ccp_up(fsm *f)
{
    ccp_options *go = &ccp_gotoptions[f->unit];
    ccp_options *ho = &ccp_hisoptions[f->unit];
    char method1[64];
    ccp_flags_set(f->unit, 1, 1);
    if (ANY_COMPRESS(*go)) {
        if (ANY_COMPRESS(*ho)) {
            if (go->method == ho->method) {
                notice("%s compression enabled", method_name(go, ho));
            } else {
                /*
                 * CCP has come up - inform the kernel driver and log a message.
                 */
            }
        }
    }
}
strlcpy(method1, method_name(go, NULL), sizeof(method1));
notice("%s / %s compression enabled",
       method1, method_name(ho, NULL));
}
} else
  notice("%s receive compression enabled", method_name(go, NULL));
  else if (ANY_COMPRESS(*ho))
notice("%s transmit compression enabled", method_name(ho, NULL));
#endif

#ifdef MPPE
  if (go->mppe) {
    BZERO(mppe_recv_key, MPPE_MAX_KEY_LEN);
    BZERO(mppe_send_key, MPPE_MAX_KEY_LEN);
    continue_networks(f->unit); /* Bring up IP et al */
  }
#endif

/*
 * CCP has gone down - inform the kernel driver.
 */
static void
ccp_down(f)
  fsm *f;
{
  if (ccp_localstate[f->unit] & RACK_PENDING)
    UNTIMEOUT(ccp_rack_timeout, f);
  ccp_localstate[f->unit] = 0;
  ccp_flags_set(f->unit, 1, 0);
#endif MPPE
  if (ccp_gotoptions[f->unit].mppe) {
    ccp_gotoptions[f->unit].mppe = 0;
    if (lcp_fsm[f->unit].state == OPENED) {
      /* If LCP is not already going down, make sure it does. */
      error("MPPE disabled");
      lcp_close(f->unit, "MPPE disabled");
    }
  }
#endif
}

/*
 * Print the contents of a CCP packet.
 */
static char *ccp_codenames[] = {
  "ConfReq", "ConfAck", "ConfNak", "ConfRej",
  "TermReq", "TermAck", "CodeRej",
  NULL, NULL, NULL, NULL, NULL, NULL, NULL, "ResetReq", "ResetAck",
static int
ccp_printpkt(p, plen, printer, arg)
    u_char *p;
    int plen;
    void (*printer) __P((void *, char *, ...));
    void *arg;
{
    u_char *p0, *optend;
    int code, id, len;
    int optlen;

    p0 = p;
    if (plen < HEADERLEN)
        return 0;
    code = p[0];
    id = p[1];
    len = (p[2] << 8) + p[3];
    if (len < HEADERLEN || len > plen)
        return 0;

    if (code >= 1 && code <= sizeof(ccp_codenames) / sizeof(char *)
        && ccp_codenames[code-1] != NULL)
        printer(arg, " %s", ccp_codenames[code-1]);
    else
        printer(arg, " code=0x%x", code);
    printer(arg, " id=0x%x", id);
    len -= HEADERLEN;
    p += HEADERLEN;

    switch (code) {
    case CONFREQ:
    case CONFACK:
    case CONFNAK:
    case CONFREJ:
        /* print list of possible compression methods */
        while (len >= 2) {
            code = p[0];
            optlen = p[1];
            if (optlen < 2 || optlen > len)
                break;
            printer(arg, " <");
            len -= optlen;
            optend = p + optlen;
            switch (code) {
#ifdef MPPE
        case CI_MPPE:
#endif
if (optlen >= CILEN_MPPE) {
    u_char mppe_opts;

    MPPE_CI_TO_OPTS(&p[2], mppe_opts);
    printer(arg, "mppe %s %s %s %s %s %s%s", 
            (mppe_opts & MPPE_OPT_UNKNOWN) ? " +U": ");
    if (mppe_opts & MPPE_OPT_UNKNOWN)
        printer(arg, " (%.2x %.2x %.2x %.2x)", 
                p[2], p[3], p[4], p[5]);
    p += CILEN_MPPE;
} 
break;
#endif

/* Predictors */

#pragma GCC diagnostic push
#pragma GCC diagnostic ignored "?-Wattributes"

case CI_PREDICTOR_1:
    if (optlen >= CILEN_PREDICTOR_1) {
        printer(arg, "predictor 1");
        p += CILEN_PREDICTOR_1;
    } 
break;

case CI_PREDICTOR_2:
    if (optlen >= CILEN_PREDICTOR_2) {
        printer(arg, "predictor 2");
    

break;
p += CILEN_PREDICTOR_2;
} break;
} while (p < optend)
printer(arg, " %.2x", *p++);
printer(arg, ">");
} break;

case TERMACK:
case TERMREQ:
if (len > 0 && *p >= ' ' && *p < 0x7f) {
    print_string((char *)p, len, printer, arg);
    p += len;
    len = 0;
} break;
}

/* dump out the rest of the packet in hex */
while (--len >= 0)
printer(arg, " %.2x", *p++);

return p - p0;
}

/*
* We have received a packet that the decompressor failed to
* decompress. Here we would expect to issue a reset-request, but
* Motorola has a patent on resetting the compressor as a result of
* detecting an error in the decompressed data after decompression.
* (See US patent 5,130,993; international patent publication number
* WO 91/10289; Australian patent 73296/91.)
* 
* So we ask the kernel whether the error was detected after
* decompression; if it was, we take CCP down, thus disabling
* compression :-/, otherwise we issue the reset-request.
*/
static void
ccp_datainput(unit, pkt, len)
int unit;
uchar *pkt;
int len;
{
    fsm *f;

    f = &ccp_fsm[unit];
if (f->state == OPENED) {
    if (ccp_fatal_error(unit)) {
        /*
         * Disable compression by taking CCP down.
         */
        error("Lost compression sync: disabling compression");
        ccp_close(unit, "Lost compression sync");
    }
}
#endif MPPE
/*
 * If we were doing MPPE, we must also take the link down.
 */
else {
    /*
     * Send a reset-request to reset the peer's compressor.
     * We don't do that if we are still waiting for an
     * acknowledgement to a previous reset-request.
     */
    if (!(ccp_localstate[f->unit] & RACK_PENDING)) {
        fsm_sdata(f, CCP_RESETREQ, f->reqid = ++f->id, NULL, 0);
        TIMEOUT(ccp_rack_timeout, f, RACK_TIMEOUT);
        ccp_localstate[f->unit] |= RACK_PENDING;
    } else
        ccp_localstate[f->unit] |= RREQ_REPEAT;
}

/*
 * Timeout waiting for reset-ack.
 */
static void
ccp_rack_timeout(arg)
    void *arg;
{
    fsm *f = arg;

    if (f->state == OPENED && ccp_localstate[f->unit] & RREQ_REPEAT) {
        fsm_sdata(f, CCP_RESETREQ, f->reqid, NULL, 0);
        TIMEOUT(ccp_rack_timeout, f, RACK_TIMEOUT);
        ccp_localstate[f->unit] &= ~RREQ_REPEAT;
    } else
        ccp_localstate[f->unit] &= ~RACK_PENDING;
}
/*
 * passprompt.c - pppd plugin to invoke an external PAP password prompter
 *
 * Copyright 1999 Paul Mackerras, Alan Curry.
 *
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 * modify it under the terms of the GNU General Public License
 * as published by the Free Software Foundation; either version
 * 2 of the License, or (at your option) any later version.
 */

#include <errno.h>
#include <unistd.h>
#include <sys/wait.h>
#include <syslog.h>
#include "pppd.h"

char pppd_version[] = VERSION;

static char promptprog[PATH_MAX+1];

static option_t options[] = {
    { "promptprog", o_string, promptprog,
        "External PAP password prompting program",
        OPT_STATIC, NULL, PATH_MAX },
    { NULL }
};

static int promptpass(char *user, char *passwd)
{
    int p[2];
    pid_t kid;
    int readgood, wstat;
    ssize_t read;

    if (promptprog[0] == 0 || access(promptprog, X_OK) < 0)
        return -1; /* sorry, can't help */

    if (!passwd)
        return 1;

    if (pipe(p)) {
        warn("Can't make a pipe for %s", promptprog);
        return 0;
    }

    if ((kid = fork()) == (pid_t) -1) {
        warn("Can't fork to run %s", promptprog);
        close(p[0]);
        return -1; /* sorry, can't help */
    }

    readgood = read(p[0], user, strlen(user));
    if (readgood < 0) {
        if (errno == EAGAIN)
            readgood = read(p[0], user, strlen(user));
        wstat = waitpid(kid, &wstat, 0);
        if (wstat <= 0)
            warn("Can't get PAP password from %s", promptprog);
        close(p[0]);
        return -1; /* sorry, can't help */
    }

    if (passwd)
        *passwd = user;
    close(p[0]);

    return 1;
}
close(p[1]);
return 0;
}
if (!kid) {
/* we are the child, exec the program */
char *argv[5], fdstr[32];
sys_close();
closelog();
close(p[0]);
seteuid(getuid());
setegid(getgid());
argv[0] = promptprog;
argv[1] = user;
argv[2] = remote_name;
sprintf(fdstr, "%d", p[1]);
argv[3] = fdstr;
argv[4] = 0;
execv(*argv, argv);
_exit(127);
}

/* we are the parent, read the password from the pipe */
close(p[1]);
readgood = 0;
do {
red = read(p[0], passwd + readgood, MAXSECRETLEN-1 - readgood);
if (red == 0)
    break;
if (red < 0) {
    if (errno == EINTR)
        continue;
    error("Can't read secret from %s: %m", promptprog);
    readgood = -1;
    break;
}
readgood += red;
} while (readgood < MAXSECRETLEN - 1);
close(p[0]);

/* now wait for child to exit */
while (waitpid(kid, &wstat, 0) < 0) {
if (errno != EINTR) {
    warn("error waiting for %s: %m", promptprog);
    break;
}
}
if (readgood < 0)
return 0;
    passwd[readgood] = 0;
    if (!WIFEXITED(wstat))
        warn("%s terminated abnormally", promptprog);
    if (WEXITSTATUS(wstat))
        warn("%s exited with code %d", promptprog, WEXITSTATUS(status));

    return 1;
}
}

void plugin_init(void)
{
    add_options(options);
    pap_passwd_hook = promptpass;
}

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

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1.119 procps 3.2.8

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1.120 procps/LGPLv2 3.2.8
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.124 python-dbus 1.2.0
:05fd6dda80097ee8cd31af23929889a2
1.124.1 Available under license:

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1.125 python-fastcgi 1.1
:74e5964fbda6bce0cd8a531658e27902

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1.126 python-gst 0.10.22
:18bf2bdfe970293cd35b365a3f2ec988

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of
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The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

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Version 1.1

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Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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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.

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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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An Application is any work that makes use of an interface provided
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A Combined Work is a work produced by combining or linking an
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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do
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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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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
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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must be distributed under the terms of Sections 1 and 2 above on a
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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
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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
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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1.139 requests 2.5.1 :(2014-12-23)

1.139.1 Available under license:
Requests includes some vendorized python libraries to ease installation.

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1.140 requests_packages 2.5.1 : (2014-12-23)

1.140.1 Available under license :

Requests includes some vendorized python libraries to ease installation.

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 *and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*      combined, allow nicstar_free_rx_skb to be called to
*      recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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

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

Linux driver for the IDT77201 NICStAR PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996
*/

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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.
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1.150 syslog-ng 3.6.4

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FAQ:
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Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?
A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

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### 1.167 zlib 1.2.8

:275786e451dc0f98d321ff4c9ad8f79c

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.8, April 28th, 2013

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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).

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