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1.3 base-passwd 3.5.29

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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\([[:^]][]*\]
    \| m4_(?:push|pop)def\(\[b4_copyright_years\]
  )
  #AFTER
  )
  (?:
    \s*
    ( \s* (?:\d\{4\}(?::\s*[-])\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/^\n/);
while (length $year_lines)
{
my $text_margin = $margin - $indent;
if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//)
|| ($year_lines =~ s/^([\S]+)(?: |$)//))
{
my $line = "\n" . (' 'x$indent) . $1;
++$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 ();

Open Source Used In VGW10 for Infinite Home rdk2.1-20150908
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my $re = $old_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 (/\([^b4_copyright_years]\)/g)
{
    my $start = pos () - length ($1);
    my $end = pos ()
    my $re = $old_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, $start) =~ s/\n/\n/g) + 1;
        print STDERR
        "$ARGV:$line: warning: failed to update a" b4_copyright_years\n";
    } pos () = $end;
} @c The GNU Free Documentation License.
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Julian Seward, Cambridge, UK.
jsward@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 applications which need to perform DNS queries without blocking, or need to perform multiple DNS queries in parallel. The primary examples of such applications are servers which communicate with multiple clients and programs
with graphical user interfaces.

The full source code is available in the 'c-ares' release archives, and in a git repository: http://github.com/bagder/c-ares

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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.

* Newlines must remain unix-style for older compilers' sake.
/* Comments must be written in the old-style /* unnested C-fashion */

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 *
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1.12 coreutils 6.9

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----------

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[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
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
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> 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= 
applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

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:
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> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
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> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
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> > 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
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> 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 l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
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 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=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEBE6E9F@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>
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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This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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

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

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1.14 cryptodev-linux 1.6

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1.15 curl 7.35.0

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** notice, and should not be referenced by programs that use SQLite.
**
** Some of the definitions that are in this file are marked as
** "experimental". Experimental interfaces are normally new
** features recently added to SQLite. We do not anticipate changes
** to experimental interfaces but reserve to make minor changes if
** experience from use "in the wild" suggest such changes are prudent.
**
** The official C-language API documentation for SQLite is derived
** from comments in this file. This file is the authoritative source
** on how SQLite interfaces are suppose to operate.
** The name of this file under configuration management is "sqlite.h.in". **
** The makefile makes some minor changes to this file (such as inserting **
** the version number) and changes its name to "sqlite3.h" as **
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1.18 dbus 1.6.18

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1.24 dropbear 2014.63 :19 February 2014

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loginrec.c
loginrec.h
atomicio.h
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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 crecip function is taken
from the sample implementation.

1.25 e2fsprogs 1.42.9
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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Theodore Ts'o  
23-June-2007

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1.26 eventlog 0.2.12

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1.28 findutils 4.2.31
:c0c8b511cde0419ebb6984250b7f4870

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1.29 flex 2.5.38

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*/
* fontconfig/src/fcfreetype.c
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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_TRUETYPE_TABLES_H
#include FT_SFNT_NAMES_H
#include FT_TRUETYPE_IDS_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
#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" },
};
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" },
    { TTPLATFORM_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_SAAMISK, ??? */
*/

{  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_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" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MALAY_ROMAN_SCRIPT, "ms" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MALAY_ARABIC_SCRIPT, "ms" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AMHARIC, "am" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TIGRINYA, "ti" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GALLA, "om" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SOMALI, "so" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SWAHILI, "sw" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_RUANDA, "rw" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_RUNDI, "rm" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CHEWA, "ny" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MALAGASY, "mg" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ESPERANTO, "eo" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_WELSH, "cy" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BASQUE, "eu" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CATALAN, "ca" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_LATIN, "la" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_QUECHUA, "qu" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GUARANI, "gn" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AYMARA, "ay" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TATAR, "tt" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_UIGHUR, "ug" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_DZONGKHA, "dz" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_JAVANESE, "jw" ],
[ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SUNDANESE, "su" ],

#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

/* The following codes are new as of 2000-03-10 */
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_GALICIAN, "gl" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_AFRIKAANS, "af" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_BRETON, "br" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_INUKTITUT, "iu" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_SCOTTISH_GAELIC, "gd" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_MANX_GAELIC, "gv" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_IRISH_GAELIC, "ga" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_TONGAN, "to" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_GREEK_POLYTONIC, "el" },
{ TT_PLATFORM_MACINTOSH,TT_MAC_LANGID_GREEK, "el" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_SAUDI_ARABIA, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_IRAQ, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_EGYPT, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_LIBYA, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_ALGERIA, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_MOROCCO, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_TUNISIA, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_OMAN, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_YEMEN, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_SYRIA, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_JORDAN, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_LEBANON, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_KUWAIT, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_UAE, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_BAHRAIN, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ARABIC_QATAR, "ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_BULGARIAN_BULGARIA, "bg" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CATALAN_SPAIN, "ca" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CHINESE_TAIWAN, "zh-tw" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CHINESE_PRC, "zh-cn" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CHINESE_HONG_KONG, "zh-hk" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CHINESE_SINGAPORE, "zh-sg" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CHINESE_MACAU, "zh-mo" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_CZECH_CZECH_REPUBLIC, "cs" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_DANISH_DENMARK, "da" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GERMAN_GERMANY, "de" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GERMAN_SWITZERLAND, "de" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GERMAN_AUSTRIA, "de" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GERMAN_LUXEMBOURG, "de" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GERMAN_LIECHTENSTEIN, "de" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GREEK_GREECE, "el" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_UNITED_STATES, "en" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_UNITED_KINGDOM, "en" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_AUSTRALIA, "en" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_AUSTRALIA, "en" },
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_CANADA,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_NEW_ZEALAND,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_IRELAND,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_SOUTH_AFRICA,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_JAMAICA,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_CARIBBEAN,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_BELIZE,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_TRINIDAD,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_ZIMBABWE,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ENGLISH_PHILIPPINES,"en" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_SPAIN_TRADITIONAL_SORT,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_SPAIN_INTERNATIONAL_SORT,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_GUATEMALA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_COSTA_RICA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_PANAMA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_DOMINICAN_REPUBLIC,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_VENEZUELA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_COLOMBIA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_PERU,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_ARGENTINA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_ECUADOR,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_CHILE,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_URUGUAY,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_PARAGUAY,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_BOLIVIA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_EL_SALVADOR,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_HONDURAS,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_NICARAGUA,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SPANISH_PUERTO_RICO,"es" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FINNISH_FINLAND,"fi" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_FRANCE,"fr" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_BELGIUM,"fr" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_CANADA,"fr" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_SWITZERLAND,"fr" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_LUXEMBOURG,"fr" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FRENCH_MONACO,"fr" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_HEBREW_ISRAEL,"he" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_HUNGARIAN_HUNGARY,"hu" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ICELANDIC_ICELAND,"is" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ITALIAN_ITALY,"it" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_ITALIAN_SWITZERLAND,"it" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_JAPANESE_JAPAN,"ja" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_KOREAN_EXTENDED_WANSUNG_KOREA,"ko" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_KOREAN_JOHAB_KOREA,"ko" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_DUTCH_NETHERLANDS,"nl" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_DUTCH_BELGIUM,"nl" ],
[ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_NORWEGIAN_NORWAY_BOKMAL,"no" ],
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_NORWEGIAN_NORWAY_NYNORSK, "nn" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_POLISH_POLAND, "pl" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_PORTUGUESE_BRAZIL, "pt" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_PORTUGUESE_PORTUGAL, "pt" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_RHAETO_ROMANIC_SWITZERLAND, "rm" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ROMANIAN_ROMANIA, "ro" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MOLDAVIAN_MOLDAVIA, "mo" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_RUSSIAN_RUSSIA, "ru" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_RUSSIAN_MOLDAVIA, "ru" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_CROATIAN_CROATIA, "hr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SERBIAN_SERBIA_LATIN, "sr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SERBIAN_SERBIA_CYRILLIC, "sr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SLOVAK_SLOVAKIA, "sk" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ALBANIAN_ALBANIA, "sq" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SWEDISH_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_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_CLASSIC_LITHUANIAN_LITHUANIA, "lt" },

#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_MALTESE_MALTA,"mt" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SAAMI_LAPONIA,"se" },
{ 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" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TATAR_TATARSTAN,"tt" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_BENGALI_INDIA,"bn" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_PUNJABI_INDIA,"pa" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_GUJARATI_INDIA,"gu" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ORIYA_INDIA,"or" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TAMIL_INDIA,"ta" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TELUGU_INDIA,"te" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KANNADA_INDIA,"kn" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MALAYALAM_INDIA,"ml" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ASSAMESE_INDIA,"as" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MARATHI_INDIA,"mr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SANSKRIT_INDIA,"sa" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KONKANI_INDIA,"kok" },

/* 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_SERBIAN,"sr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_CROATIAN,"hr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SERBIAN,"sr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TAJIK_TAJIKISTAN,"tg" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_YIDDISH_GERMANY,"yi" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KIRGIZ_KIRGHIZSTAN,"ky" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TURKMEN_TURKMENISTAN,"tk" },
/* the following seems to be inconsistent; */

/* the following one is only encountered in Microsoft RTF specification */

/* new as of 2001-03-01 (from Office Xp) */

/* New additions from Windows Xp/Passport SDK 2001-11-10. */
/* don't ask what this one means... it is commented out currently. */
#if 0
   { 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 X.,                                         */
{ 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" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_PUNJABI_ARABIC_PAKISTAN,"ar" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_MONGOLIAN_MONGOLIA_MONGOLIAN,"mn” },
#if 0
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_EDO_NIGERIA },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_FULFULDE_NIGERIA },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_IBIBIO_NIGERIA },
#endif
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_HAUSA_NIGERIA,"ha" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_YORUBA_NIGERIA,"yo" },
/* language codes from, to, are (still) unknown. */
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_IGBO_NIGERIA,"ibo" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_KANURI_NIGERIA,"kau" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_GUARANI_PARAGUAY,"gn" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_HAWAIIAN_UNITED_STATES,"haw" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_LATIN,"la" },
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_SOMALI_SOMALIA,"so” },
#if 0
/* note: Yi does not have a (proper) ISO 639-2 code, since it is mostly */
/* notedly not written (but OTOH the peculiar writing system is worth */
/* studying).                                                 */
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_YI_CHINA },
#endif
{ TT_PLATFORM_MICROSOFT,TT_MS_LANGID_PAPIAMENTU_NETHERLANDS_ANTILLES,"pap” },
};

#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[] = {

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 == TT_ENCODING_DONT_CARE ||
            ...
fcFtEncoding[i].encoding_id == sname->encoding_id))
break;
if (i == NUM_FC_FT_ENCODING)
return 0;
fromcode = fcFtEncoding[i].fromcode;

*/
* 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;
}
#endif

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 * FC_UTF8_MAX_LEN;
        char *inbuf, *outbuf;

        utf8 = malloc(out_bytes_left + 1);
        if (!utf8)
            {
                iconv_close(cd);
                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;
    }
#endif

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", "ihm"},
    {"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 {

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const FT_Char vendor[5];
const FcChar8 foundry[13];
} FcVendorFoundries[] = {
    { "ADBE", "adobe" },
    { "AGFA", "agfa" },
    { "ALTS", "altys" },
    { "APPL", "apple" },
    { "ARPH", "arphic" },
    { "ATEC", "alltype" },
    { "B&H", "b&h" },
    { "BITS", "bitstream" },
    { "CANO", "cannon" },
    { "CLM", "culmus" },
    { "DYNA", "dynalab" },
    { "EPSN", "epson" },
    { "FJ", "fujitsu" },
    { "IBM", "ibm" },
    { "ITC", "ite" },
    { "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) "black", FC_WEIGHT_BLACK },
{ (FC8) "heavy", FC_WEIGHT_HEAVY },
};

#define NUM_WEIGHT_CONSTS (int) (sizeof (weightConsts) / sizeof (weightConsts[0]))

#define FcIsWeight(s) FcStringIsConst(s, weightConsts, NUM_WEIGHT_CONSTS)
#define FcContainsWeight(s) FcStringContainsConst (s, weightConsts, NUM_WEIGHT_CONSTS)

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_EXPANDED },
};

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

#define FcIsWidth(s) FcStringIsConst(s, widthConsts, NUM_WIDTH_CONSTS)
#define FcContainsWidth(s) FcStringContainsConst (s, widthConsts, NUM_WIDTH_CONSTS)

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]))

#define FcContainsSlant(s)  FcStringContainsConst (s,slantConsts,NUM_SLANT_CONSTS)

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

#define NUM_DECORATIVE_CONSTS(int) (sizeof (decorativeConsts) / sizeof (decorativeConsts[0]))

#define FcContainsDecorative(s)  FcStringContainsConst (s,decorativeConsts,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;
}
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[] = {
#define TT_NAME_ID_WWS_FAMILY
    TT_NAME_ID_WWS_FAMILY,
#elseif TT_NAME_ID_WWS FAMILY
    TT_NAME_ID_WWS_FAMILY,
#elseendif
    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_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_t len;

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

                for (snamei = 0; snamei < snamec; snamei++)
/*
 * Sort platforms in preference order, accepting
 * all other platforms last
 */

if (p < NUM_PLATFORM_ORDER)
{
    if (sname.platform_id != platform)
        continue;
}
else
{
    unsigned int sp;
    for (sp = 0; sp < NUM_PLATFORM_ORDER; sp++)
        if (sname.platform_id == platform_order[sp])
            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
", 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;
etlang = FC_FULLNAMELANG;
np = &nfullname;
nlangp = &nfullname_lang;
break;
#endif
     case TT_NAME_ID_WWS_SUBFAMILY:
     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;
etlang = 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)
         foundry = FcNoticeFoundry((FT_String *) utf8);
     break;
}    else
        {    
            if (FcStringInPatternElement (pat, elt, utf8))
{ free (utf8);
  continue;
}

/* add new element */
if (!FcPatternAddString (pat, elt, utf8))
{
  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++;  // Increment the counter.
familylang = NULL;
}
if (!familylang)  // If the family name is not set.
    n = 0;

if (FcPatternObjectGetString (pat, FC_FAMILY_OBJECT, n, &family) != FcResultMatch)  // Check if the family name is correctly set.
    goto bail1;
len = strlen ((const char *)family);  // Get the length of the family name.

/* The literal name in PostScript Language is limited to 127 characters though,
* It is the architectural limit. So assuming 255 characters may work enough. */
for (i = 0; i < len && i < 255; i++)  // Iterate through each character of the family name.
{
    /* Those characters are not allowed to be the literal name in PostScript */
    static const char exclusive_chars[] = "\04(<>][{}\t\f\r\n ";

    if (strchr(exclusive_chars, family[i]) != NULL)  // Check if the character is allowed.
        psname[i] = '-';
    else
        psname[i] = family[i];
    }
psname[i] = 0;  // Nullterminate the string.
else  // If the condition is not satisfied.
{
    strcpy (psname, tmp);  // Copy the temporary string.
}
if (!FcPatternAddString (pat, FC_POSTSCRIPT_NAME, (const FcChar8 *)psname))  // Add the string to the pattern.
    goto bail1;
if (!FcPatternAddString (pat, FC_FILE, file))  // Add the file name to the pattern.
    goto bail1;
if (!FcPatternAddInteger (pat, FC_INDEX, id))  // Add the index to the pattern.
    goto bail1;

#if 0  // Condition for special case.
    /*
     * 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)  // Check if the face is fixed width.
        if (!FcPatternAddInteger (pat, FC_SPACING, FC_MONO))  // Add the spacing attribute.
            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)
{
basic = os2->ulCodePageRange1;
bit = FcCodePageRange[i].bit;
}
else
{
basic = 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_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 ((FcDebug() & FC_DBG_SCANV) && 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() & FCDBGSCANV)
        printf ("Type1 weight %s maps to %d\n", psfontinfo.weight, weight);
}
#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)
    rc = FT_Get_BDF_Property(face, "FOUNDRY", &prop);
if(rc == 0 && prop.type == BDFPROPERTYTYPEATOM)
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 ("setwidth %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)
    {
        /* font may not support SFNT. falling back to
        * read the font data from file directly
        */
        hashstr = FcHashGetSHA256DigestFromFile (file);
    }
    else
    {
        goto bail3;
    }
    if (hashstr)
    {
        if (!FcPatternAddString (pat, FC_HASH, hashstr))
        {
            free (hashstr);
            goto bail1;
        }
    }
free (hashstr);
}
bail3:

/*
 * Compute the unicode coverage for the font
 */
cs = FcFreeTypeCharSetAndSpacing (face, blanks, &spacing);
if (!cs)
goto bail1;

#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;

    *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)
#endif

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

typedef struct _FcFontDecode {
    FT.Encoding encoding;
} FcFontDecode;

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

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

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

typedef struct _FcFontDecode {
    FT.Encoding encoding;
} FcFontDecode;
const FcCharMap *map;
FcChar32 max;
} FcFontDecode;

static const FcCharEnt AdobeSymbolEnt[] = {
    { 0x0020, 0x20 }, /* SPACE */
    { 0x0021, 0x21 }, /* EXCLAMATION MARK */
    { 0x0023, 0x23 }, /* NUMBER SIGN */
    { 0x0025, 0x25 }, /* PERCENT SIGN */
    { 0x0026, 0x26 }, /* AMPERSAND */
    { 0x0028, 0x28 }, /* LEFT PARENTHESES */
    { 0x0029, 0x29 }, /* RIGHT PARENTHESES */
    { 0x002B, 0x2B }, /* PLUS SIGN */
    { 0x002C, 0x2C }, /* COMMA */
    { 0x002D, 0x2D }, /* FULL STOP */
    { 0x002F, 0x2F }, /* SOLIDUS */
    { 0x0030, 0x30 }, /* DIGIT ZERO */
    { 0x0031, 0x31 }, /* DIGIT ONE */
    { 0x0032, 0x32 }, /* DIGIT TWO */
    { 0x0033, 0x33 }, /* DIGIT THREE */
    { 0x0034, 0x34 }, /* DIGIT FOUR */
    { 0x0035, 0x35 }, /* DIGIT FIVE */
    { 0x0036, 0x36 }, /* DIGIT SIX */
    { 0x0037, 0x37 }, /* DIGIT SEVEN */
    { 0x0038, 0x38 }, /* DIGIT EIGHT */
    { 0x0039, 0x39 }, /* DIGIT NINE */
    { 0x003A, 0x3A }, /* COLON */
    { 0x003B, 0x3B }, /* SEMICOLON */
    { 0x003C, 0x3C }, /* LESS-THAN SIGN */
    { 0x003D, 0x3D }, /* EQUALS SIGN */
    { 0x003E, 0x3E }, /* GREATER-THEAN SIGN */
    { 0x003F, 0x3F }, /* QUESTION MARK */
    { 0x005B, 0x5B }, /* LEFT SQUARE BRACKET */
    { 0x005D, 0x5D }, /* RIGHT SQUARE BRACKET */
    { 0x005F, 0x5F }, /* LOW LINE */
    { 0x007B, 0x7B }, /* LEFT CURLY BRACKET */
    { 0x007C, 0x7C }, /* VERTICAL LINE */
    { 0x007D, 0x7D }, /* RIGHT CURLY BRACKET */
    { 0x00A0, 0x20 }, /* NO-BREAK SPACE */
    { 0x00AC, 0x28 }, /* NOT SIGN */
    { 0x00B0, 0x20 }, /* DEGREE SIGN */
    { 0x00B1, 0x21 }, /* PLUS-MINUS SIGN */
    { 0x00B5, 0x26 }, /* MICRO SIGN */
    { 0x00D7, 0x24 }, /* MULTIPLICATION SIGN */
    { 0x00F7, 0x28 }, /* DIVISION SIGN */
    { 0x0192, 0x26 }, /* LATIN SMALL LETTER F WITH HOOK */
    { 0x0391, 0x41 }, /* GREEK CAPITAL LETTER ALPHA */
    { 0x0392, 0x42 }, /* GREEK CAPITAL LETTER BETA */
};
"GREEK CAPITAL LETTER GAMMA" # Gamma */
{ 0x0393, 0x47 }, /* GREEK CAPITAL LETTER DELTA# Delta */
{ 0x0394, 0x44 }, /* GREEK CAPITAL LETTER EPSILON# Epsilon */
{ 0x0395, 0x45 }, /* GREEK CAPITAL LETTER ZETA# Zeta */
{ 0x0396, 0x5A }, /* GREEK CAPITAL LETTER ETA# Eta */
{ 0x0397, 0x48 }, /* GREEK CAPITAL LETTER THETA# Theta */
{ 0x0398, 0x51 }, /* GREEK CAPITAL LETTER IOTA# Iota */
{ 0x0399, 0x49 }, /* GREEK CAPITAL LETTER KAPPA# Kappa */
{ 0x039A, 0x4B }, /* GREEK CAPITAL LETTER LAMDA# Lambda */
{ 0x039B, 0x4C }, /* GREEK CAPITAL LETTER MU# Mu */
{ 0x039D, 0x4E }, /* GREEK CAPITAL LETTER NU# Nu */
{ 0x039E, 0x58 }, /* GREEK CAPITAL LETTER XI# Xi */
{ 0x039F, 0x4F }, /* GREEK CAPITAL LETTER OMICRON# Omicron */
{ 0x03A0, 0x50 }, /* GREEK CAPITAL LETTER PI# Pi */
{ 0x03A1, 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 */
{ 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 */
{ 0x21B5, 0xBF }, /* DOWNWARDS ARROW WITH CORNER LEFTWARDS# carriagereturn */
{ 0x2200, 0x22 }, /* FOR ALL# universal */
{ 0x2201, 0xA9 }, /* PARTIAL DERIVATIVE# partialdiff */
{ 0x2202, 0xB6 }, /* THERE EXISTS# existential */
{ 0x2203, 0x24 }, /* ELEMENT OF# element */
{ 0x2204, 0xC7 }, /* CONTAINS AS MEMBER# suchthat */
{ 0x2205, 0xA4 }, /* NARY PRODUCT# product */
{ 0x2206, 0xA5 }, /* NARY SUMMATION# summation */
{ 0x2207, 0x2D }, /* MINUS SIGN# minus */
{ 0x2208, 0xA9 }, /* DIVISION SLASH# fraction */
{ 0x2209, 0xA5 }, /* ASTERISK OPERATOR# asteriskmath */
{ 0x220A, 0xA6 }, /* SQUARE ROOT# radical */
{ 0x220B, 0xA7 }, /* PROPORTIONAL TO# proportional */
{ 0x221E, 0xA5 }, /* INFINITY# infinity */
{ 0x2220, 0xD0 }, /* ANGLE# angle */
{ 0x2227, 0xD9 }, /* LOGICAL AND# logicaland */
{ 0x2228, 0xD1 }, /* LOGICAL OR# logicalor */
{ 0x2229, 0xC7 }, /* INTERSECTION# intersection */
{ 0x222A, 0xC8 }, /* UNION# union */
{ 0x222B, 0xF2 }, /* INTEGRAL# integral */
{ 0x2234, 0x5C }, /* THEREFORE # therefore */
{ 0x223C, 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, 0xBB }, /* GREATER-THAN OR EQUAL TO # greaterequal */
{ 0x2282, 0xC9 }, /* SUBSET OF # propersubset */
{ 0x2283, 0xCA }, /* SUPERSET OF # propersuperset */
{ 0x2284, 0xCB }, /* NOT A SUBSET OF # notsubset */
{ 0x2286, 0xCD }, /* SUBSET OF OR EQUAL TO # reflexsubset */
{ 0x2287, 0xCF }, /* SUPERSET OF OR EQUAL TO # reflexsuperset */
{ 0x2295, 0xC5 }, /* CIRCLED PLUS # circleplus */
{ 0x2297, 0xC4 }, /* CIRCLED TIMES # circlemultiply */
{ 0x2320, 0xF3 }, /* TOP HALF INTEGRAL # integraltp */
{ 0x2321, 0xF5 }, /* BOTTOM HALF INTEGRAL # integralbt */
{ 0x25CA, 0xE0 }, /* LOZENGE # lozenge */
{ 0x2660, 0xAA }, /* BLACK SPADE SUIT # spade */
{ 0x2663, 0xA7 }, /* BLACK CLUB SUIT # club */
{ 0x2665, 0xA9 }, /* BLACK HEART SUIT # heart */
{ 0x2666, 0xA8 }, /* BLACK DIAMOND SUIT # diamond */
{ 0x2695, 0x00 }, /* COPYRIGHT SIGN # copyright */
{ 0x2696, 0x01 }, /* REGISTERED SIGN # registered */
{ 0x2697, 0x02 }, /* TRADE MARK SIGN # trademark */
{ 0x2698, 0x03 }, /* LEFT PAREN TOP # parenlefttp */
{ 0x2699, 0x04 }, /* LEFT PAREN # parenleftx */
{ 0x269A, 0x05 }, /* LEFT CURLY BRACKET # braceleftx */
{ 0x269B, 0x06 }, /* LEFT CURLY BRACKET MID # braceleftmid */
{ 0x269C, 0x07 }, /* LEFT CURLY BRACKET BOTTOM # braceleftbt */
{ 0x269D, 0x08 }, /* LEFT SQUARE BRACKET # brackleftx */
{ 0x269E, 0x09 }, /* LEFT SQUARE BRACKET MID # bracklemid */
{ 0x269F, 0x0A }, /* LEFT SQUARE BRACKET BOTTOM # brackleftbt */
{ 0x27B0, 0x00 }, /* UP TACK # perpendicular */
{ 0x27C5, 0x01 }, /* DOT OPERATOR # dotmath */
{ 0x27C6, 0x02 }, /* INTEGRAL TOP # integraltp */
{ 0x27C7, 0x03 }, /* INTEGRAL MID # integralmid */
{ 0x27C8, 0x04 }, /* INTEGRAL BOTTOM # integralbt */
{ 0x27C9, 0x05 }, /* BOTTOM HALF INTEGRAL # integralbt */
{ 0x27CA, 0x06 }, /* TOP HALF INTEGRAL # integraltp */
{ 0x27CB, 0x07 }, /* UP ARROW # uparrow */
{ 0x27CD, 0x08 }, /* DOWN ARROW # downarrow */
{ 0x27CE, 0x09 }, /* RIGHT ARROW # rightarrow */
{ 0x27CF, 0x0A }, /* LEFT ARROW # leftarrow */
{ 0x27D0, 0x0B }, /* UP DOT # updot */
{ 0x27D1, 0x0C }, /* DOWN DOT # downdot */
{ 0x27D2, 0x0D }, /* LEFT DOT # leftdot */
{ 0x27D3, 0x0E }, /* RIGHT DOT # rightdot */
{ 0x27D4, 0x0F }, /* UP BUMP # uprightbump */
{ 0x27D5, 0x10 }, /* DOWN BUMP # downbump */
{ 0x27D6, 0x11 }, /* UP CURVE # upcurve */
{ 0x27D7, 0x12 }, /* DOWN CURVE # downcurve */
{ 0x27D8, 0x13 }, /* UP RIGHT ARROW # uparrowright */
{ 0x27D9, 0x14 }, /* DOWN RIGHT ARROW # downarrowright */
{ 0x27DA, 0x15 }, /* UP LEFT ARROW # uparrowleft */
{ 0x27DB, 0x16 }, /* DOWN LEFT ARROW # downarrowleft */
{ 0x27DC, 0x17 }, /* LEFT TURNED ARROW # leftturnarow */
{ 0x27DD, 0x18 }, /* RIGHT TURNED ARROW # rightturnarow */
{ 0x27DE, 0x19 }, /* LEFT CURLY ARROW # braceleftarow */
{ 0x27DF, 0x1A }, /* RIGHT CURLY ARROW # bracerightarow */
{ 0x27E0, 0x1B }, /* LEFT SQUARE BRACKET ARROW # brackleftarow */
{ 0x27E1, 0x1C }, /* RIGHT SQUARE BRACKET ARROW # brackrightarow */
{ 0x27E2, 0x1D }, /* UP ARROW # uparrow */
{ 0x27E3, 0x1E }, /* DOWN ARROW # downarrow */
{ 0x27E4, 0x1F }, /* RIGHT ARROW # rightarrow */
{ 0x27E5, 0x20 }, /* LEFT ARROW # leftarrow */
{ 0x27E6, 0x21 }, /* UP DOT # updot */
{ 0x27E7, 0x22 }, /* DOWN DOT # downdot */
{ 0x27E8, 0x23 }, /* LEFT DOT # leftdot */
{ 0x27E9, 0x24 }, /* RIGHT DOT # rightdot */
{ 0x27EA, 0x25 }, /* UP BUMP # uprightbump */
{ 0x27EB, 0x26 }, /* DOWN BUMP # downbump */
{ 0x27EC, 0x27 }, /* UP CURVE # upcurve */
{ 0x27ED, 0x28 }, /* DOWN CURVE # downcurve */
{ 0x27EE, 0x29 }, /* UP RIGHT ARROW # uparrowright */
{ 0x27EF, 0x2A }, /* DOWN RIGHT ARROW # downarrowright */
{ 0x27F0, 0x2B }, /* UP LEFT ARROW # uparrowleft */
{ 0x27F1, 0x2C }, /* DOWN LEFT ARROW # downarrowleft */
{ 0x27F2, 0x2D }, /* LEFT TURNED ARROW # leftturnarow */
{ 0x27F3, 0x2E }, /* RIGHT TURNED ARROW # rightturnarow */
{ 0x27F4, 0x2F }, /* LEFT CURLY ARROW # braceleftarow */
{ 0x27F5, 0x30 }, /* RIGHT CURLY ARROW # bracerightarow */
{ 0x27F6, 0x31 }, /* LEFT SQUARE BRACKET ARROW # brackleftarow */
{ 0x27F7, 0x32 }, /* RIGHT SQUARE BRACKET ARROW # brackrightarow */

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;
    FcChar16bmp;

    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);
  intr = 0;
  FcGlyphIdgn;

  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);
  intr = 0;
  FcGlyphIdgn;

  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 0;
}
```c
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*t 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 ... */
            break;
    }

    return FcFalse;
}

#define APPROXIMATELY_EQUAL(x,y) ((x) <= ((FC_ABS ((x) - (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)
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)
{
if (!has_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));
#endif
    if (ucs4 > font_max)
        font_max = ucs4;
#elseif
    }
    }
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;
        }
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 = Fc CharSetFindLeafCreate (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);  
#elifif CHECK
    for (ucs4 = 0; ucs4 < 0x10000; ucs4++)
    {
        FcBool FT_Has, FC_Has;
        FT_Has = FT_Get_Char_Index (face, ucs4) != 0;
        FC_Has = Fc CharSetHasChar (fcs, ucs4);
        if (FT_Has != FC_Has)
            printf ("0x%08x FT says %d FC says %d\n", ucs4, FT_Has, FC_Has);
    }
#endif
}
#endif 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 &&
        FcFreeTypeCheckGlyph(face, ucs4, glyph, blanks, &advance, using_strike))
     {
       if (advance)
         {
         if (!has_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
   }
   }
# ifdef CHECK
 printf("%d glyphs %d encoded\n", (int) face->num_glyphs, FcCharSetCount(fcs));
 for (ucs4 = 0; ucs4 <= font_max; ucs4++)
 {  

FcBool has_char = (glyph = FcFreeTypeCharIndex (face, ucs4)) != 0;
FcBool has_bit = FcCharSetHasChar (fcs, ucs4);

if (has_char && !has_bit)
{
  if (!FcFreeTypeCheckGlyph (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);
#ifendif

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;

bail1:
  FcCharSetDestroy (fcs);
bail0:
  return 0;
}

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))
   *
   * Select the face closest to 16 pixels tall *
   */
  int i;
  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);
}

#define TTAG_GPOS  FT_MAKE_TAG( 'G', 'P', 'O', 'S' )
#define TTAG_GSUB  FT_MAKE_TAG( 'G', 'S', 'U', 'B' )
#define TTAG_SILF  FT_MAKE_TAG( 'S', 'i', 'l', 'f')

#define OTLAYOUT_HEAD   "otlayout:"
#define OTLAYOUT_HEAD_LEN   9
#define OTLAYOUT_ID_LEN   4
/* space + head + id */
#define OTLAYOUT_LEN   (1 + OTLAYOUT_HEAD_LEN + OTLAYOUT_ID_LEN)

/*
 * This is a bit generous; the registry has only lower case and space
 * except for 'DFLT'.
 */
#define FcIsSpace(x)    (040 == (x))
#define FcIsDigit(c)    (('0' <= (c) && (c) <= '9'))
#define FcIsValidScript(x)  (FcIsLower(x) || FcIsUpper (x) || FcIsDigit(x) || FcIsSpace(x))

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_ULong 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 == gpos_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_;
}

#define __fcfreetype__
#include "fcaliastail.h"
#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_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)
        {
            close (fd);
            return -1;
        }
    #endif
    return fd;

    /*
    * 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);
#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 intfcCacheMaxLevel;

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 intbits = 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;

    /*
     * 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)
    {
        fcCacheMaxLevel--;
        free (s);
    }

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  dir_static;

    if (!dir_stat)
    {
        if (FcStatChecksum (FcCacheDir (cache), &dir_static) < 0)
            return FcFalse;
        dir_stat = &dir_static;
    }
    if (FcDebug () & FC_DBG_CACHE)
        printf ("FcCacheTimeValid dir \"%s\" cache checksum %d dir checksum %d\n",
                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;
    FcBool allocated = 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)
        {
            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;

    return ret;
}
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
 */
FcSerializeAlloc (serialize, dirs, 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)
goto bail1;

/* shut up valgrind */
memset (cache, 0, serialize->size);

serialize->linear = cache;

cache->magic = FC_CACHE_MAGIC_ALLOC;
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];
    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",
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;
  FcBool ret = FcTrue;
  FcBool remove;
  FcCache*cache;
  struct stat target_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", cache_dir, dir);
    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))
    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)

const 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; /* Bytes already in shsInfo->data */

/* 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] + 0xc1bdceee, 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] + 0xff0881c6, 17);
    MD5STEP(F1, b, c, d, a, in[11] + 0x895c780d, 22);
    MD5STEP(F1, a, b, c, d, in[12] + 0x6b901122, 7);
    MD5STEP(F1, d, a, b, c, in[13] + 0xa54a0f2a, 12);
    MD5STEP(F1, c, d, a, b, in[14] + 0x5be59c24, 17);
    MD5STEP(F1, b, c, d, a, in[15] + 0x265e5a51, 22);

    MD5STEP(F2, a, b, c, d, in[1] + 0xf61e2562, 5);
    MD5STEP(F2, d, a, b, c, in[6] + 0xc040b050, 9);
    MD5STEP(F2, c, d, a, b, in[11] + 0x265e5a51, 14);
    MD5STEP(F2, b, c, d, a, in[0] + 0xe9b6c7aa, 20);
    MD5STEP(F2, a, b, c, d, in[5] + 0x6b901122, 5);
    MD5STEP(F2, d, a, b, c, in[10] + 0x02441453, 9);
    MD5STEP(F2, c, d, a, b, in[15] + 0x8da1e681, 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] + 0x33707d69, 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] + 0xcef4a3f8, 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] + 0xffffffff, 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] + 0xdfe5380c, 23);
MD5STEP(F3, a, b, c, d, in[1] + 0xa4beeaf4, 4);
MD5STEP(F3, d, a, b, c, in[4] + 0x4bdecfa9, 11);
MD5STEP(F3, c, d, a, b, in[7] + 0xf6bb4b60, 16);
MD5STEP(F3, b, c, d, a, in[10] + 0xbefb7f70, 23);
MD5STEP(F3, a, b, c, d, in[13] + 0x8b877e6c, 4);
MD5STEP(F3, d, a, b, c, in[0] + 0xeaa127fa, 11);
MD5STEP(F3, c, d, a, b, in[3] + 0x432aff97, 16);
MD5STEP(F3, b, c, d, a, in[6] + 0xa65f59c3, 23);
MD5STEP(F3, a, b, c, d, in[9] + 0x9d4d4d09, 4);
MD5STEP(F3, d, a, b, c, in[12] + 0x6f8800e5, 11);
MD5STEP(F3, c, d, a, b, in[15] + 0x1fa27cf8, 16);
MD5STEP(F3, b, c, d, a, in[2] + 0x4ebac5665, 23);

MD5STEP(F4, a, b, c, d, in[0] + 0x4292244, 6);
MD5STEP(F4, d, a, b, c, in[7] + 0x432aff97, 10);
MD5STEP(F4, c, d, a, b, in[14] + 0x9b423a7, 15);
MD5STEP(F4, b, c, d, a, in[5] + 0xf93a039, 21);
MD5STEP(F4, a, b, c, d, in[12] + 0x6f5b59c3, 6);
MD5STEP(F4, d, a, b, c, in[3] + 0x8f00cc92, 10);
MD5STEP(F4, c, d, a, b, in[10] + 0x8ffef47d, 15);
MD5STEP(F4, b, c, d, a, in[1] + 0x5845dd1, 21);
MD5STEP(F4, a, b, c, d, in[8] + 0x6fa878ef, 6);
MD5STEP(F4, d, a, b, c, in[15] + 0x2e6e6e0, 10);
MD5STEP(F4, c, d, a, b, in[6] + 0x3014314, 15);
MD5STEP(F4, b, c, d, a, in[13] + 0x6e0811a1, 21);
MD5STEP(F4, a, b, c, d, in[4] + 0xf7537e82, 6);
MD5STEP(F4, d, a, b, c, in[11] + 0x8bd3af235, 10);
MD5STEP(F4, c, d, a, b, in[2] + 0x2ad7d2bb, 15);
MD5STEP(F4, b, c, d, a, in[9] + 0xe8b86d391, 21);

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

FcBool
FcDirCacheCreateTagFile (const FcChar8 *cache_dir)
{

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401
FcChar8*cache_tag;
int fd;
FILE*fp;
FcAtomic*atomic;

static const FcChar8 cache_tag_contents[] =
"Signature: 8a477f597d28d172789f06886806be55\n"
"# This file is a cache directory tag created by fontconfig.\n"
"# For information about cache directory tags, see:\n"
"# http://www.brynosaurus.com/cachedir/\n"
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 "fcaliastail.h"
#undef __fccache__
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1.34 fuse-lib 2.7.3

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1.35 gawk 3.1.5
:7419585306aebf5b6ddff7edda31149a

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on the Program, 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 Program.

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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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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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
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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
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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1.36 gdbm 1.8.3
:bbae68f3e04db54626c88fa1080b546f

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1.37 gettext 0.16.1

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The following parts are under the LGPL, see files intl/COPYING.LIB-2.0 and intl/COPYING.LIB-2.1:
- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:
- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 2, June 1991

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

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The reason we have a separate public license for some libraries is that
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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
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treats it as such.

Because of this blurred distinction, using the ordinary General
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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
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permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
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this as regards changes in header files, but we have achieved it as regards
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will lead to faster development of free libraries.

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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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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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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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
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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.

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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:7fcdfa6e88bc3c49714e7c4c2b947913
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    its purpose remains meaningful.

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<signature of Ty Coon>, 1 April 1990
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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.

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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
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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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1.39 glib-2.0 2.38.2

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

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

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

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

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

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

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

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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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Ty Coon, President of Vice

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End

1.40 glib-networking 2.38.0

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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.

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1.41 gptfdisk 0.8.6
:3edfd84d3014e769514d9ba33023470
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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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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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"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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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 + * Copyright (c) 2013 Tankut Akgul <akgult at cisco com>
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 + * Boston, MA 02111-1307, USA.
 + */
 +

1.46 gst-plugins-good 0.10.25
:a3336ba0772a9b4a2ff1cb19071c20e9
1.46.1 Available under license:

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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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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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1.50 gstreamer1.0-plugins-base 1.4.5

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You should also get your employer (if you work as a programmer) or your
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Ty Coon, President of Vice

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

1.51 gstreamer1.0-plugins-good 1.4.5

1.51.1 Available under license:

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

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

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

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

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

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

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

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   (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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1.52 gstreamer\scripts 0.10.36 :2012-02-20

Tim-Philipp Müller

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

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1.60 ICU 51.2
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

### 1.61 iksemel 1.4

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1.66 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.
ACKNOWLEDGMENTS Special thanks.
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

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.iijg.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...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). 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.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS


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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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.


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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.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (also known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

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

FILE FORMAT WARS
================

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 convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

Furthermore, the ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

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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1.68 jsoncpp 0.6.0-rc2
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>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte=8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572psf2 screen font data
>12lelong&11 with Unicode index
>16lelongxH, %d glyphs
>28lelongxH, %dx
>24lelongxH%d
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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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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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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 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.

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For an executable, the required form of the "work that uses the
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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.)

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

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

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

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

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1.93 libsoup-2.4 2.45.3

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   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
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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:

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.

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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
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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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
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1.96 libusb-compat 0.1.5
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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4. You may copy and distribute the Library (or a portion or
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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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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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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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That's all there is to it!

/\ nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  *
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97  - commented out CFG_PHYIE bit - we don't care when the PHY
  * interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97  - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97  - added code to handle PHY interrupts, disable PHY on
  * loss of link, and correctly re-enable PHY when link is
  * re-established. (put back CFG_PHYIE)
  *
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStar PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
  *
  * Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  * combined, allow nicstar_free_rx_skb to be called to
  * recycle large data buffers
  * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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* M. Welsh, 6 July 1996

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

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1.111 ncurses 5.9

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Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction
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1.112 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>

#endif

#include <QDBusPendingCallWatcher>
#include <QDBusMessage>
#include <QPair>
#include "declarativebus.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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Version 2.1, February 1999

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Motorola 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.
<table>
<thead>
<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>2176.00</td>
<td>5994.67</td>
<td>8079.73</td>
<td>8845.18</td>
<td>9077.01</td>
</tr>
<tr>
<td>mdc2</td>
<td>5730.67</td>
<td>6122.67</td>
<td>6167.66</td>
<td>6176.51</td>
<td>6174.87</td>
</tr>
<tr>
<td>md5</td>
<td>29.10k</td>
<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
<td>263.99k</td>
</tr>
<tr>
<td>hmac(md5)</td>
<td>12.33k</td>
<td>73.02k</td>
<td>160.17k</td>
<td>228.04k</td>
<td>261.15k</td>
</tr>
<tr>
<td>sha1</td>
<td>11.27k</td>
<td>49.37k</td>
<td>84.31k</td>
<td>102.40k</td>
<td>109.23k</td>
</tr>
<tr>
<td>rmd160</td>
<td>11.69k</td>
<td>48.62k</td>
<td>78.76k</td>
<td>93.15k</td>
<td>98.41k</td>
</tr>
<tr>
<td>rc4</td>
<td>117.96k</td>
<td>148.94k</td>
<td>152.57k</td>
<td>153.09k</td>
<td>152.92k</td>
</tr>
<tr>
<td>des cbc</td>
<td>27.13k</td>
<td>30.06k</td>
<td>30.38k</td>
<td>30.38k</td>
<td>30.53k</td>
</tr>
<tr>
<td>des ede3</td>
<td>10.51k</td>
<td>10.94k</td>
<td>11.01k</td>
<td>11.01k</td>
<td>11.01k</td>
</tr>
<tr>
<td>idea cbc</td>
<td>26.74k</td>
<td>29.23k</td>
<td>29.45k</td>
<td>29.60k</td>
<td>29.74k</td>
</tr>
<tr>
<td>rc2 cbc</td>
<td>34.27k</td>
<td>39.39k</td>
<td>40.03k</td>
<td>40.07k</td>
<td>40.16k</td>
</tr>
<tr>
<td>rc5-32/12 cbc</td>
<td>64.31k</td>
<td>83.18k</td>
<td>85.70k</td>
<td>86.70k</td>
<td>87.09k</td>
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<td>blowfish cbc</td>
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<td>59.18k</td>
<td>60.07k</td>
<td>60.42k</td>
<td>60.78k</td>
</tr>
<tr>
<td>cast cbc</td>
<td>42.67k</td>
<td>50.01k</td>
<td>50.86k</td>
<td>51.20k</td>
<td>51.37k</td>
</tr>
<tr>
<td>sign</td>
<td>rsa 512 bits</td>
<td>0.7738s</td>
<td>0.0774s</td>
<td>1.3</td>
<td>12.9</td>
</tr>
<tr>
<td>verify</td>
<td>rsa 1024 bits</td>
<td>4.3967s</td>
<td>0.2615s</td>
<td>0.2</td>
<td>3.8</td>
</tr>
<tr>
<td>sign/s</td>
<td>rsa 2048 bits</td>
<td>29.5200s</td>
<td>0.9664s</td>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>verify/s</td>
<td>dsa 512 bits</td>
<td>0.7862s</td>
<td>0.9709s</td>
<td>1.3</td>
<td>1.0</td>
</tr>
<tr>
<td>sign/s</td>
<td>dsa 1024 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>verify/s</td>
<td>dsa 2048 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
<td>0.1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLeay 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTermios -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.
Open Source Used In VGW10 for Infinite Home rdk2.1-20150908

1.116 OpenSSL 1.0.2g :1

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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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1.123 popt 1.16
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Version 2, June 1991

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1.125 ppp 2.4.6

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1.129 Python 2.7.3 :python

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

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

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

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

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

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005

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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://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/
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1.130 python-argparse 1.2.1

1.130.1 Available under license :

A. HISTORY OF THE SOFTWARE

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

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

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

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

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History
-------

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The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.
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THE BASIC LIBRARY FUNCTIONS
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March 29, 2012
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If distribution of executable or 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 counts as distribution of 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 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
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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.

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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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
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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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4. You may copy and distribute the Library (or a portion or
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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
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However, linking a "work that uses the Library" with the Library
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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
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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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Because of this blurred distinction, using the ordinary General
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1.146 requests 2.5.1 :(2014-12-23)

1.146.1 Available under license :
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1.148 rfkill 0.4

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.157 syslog-ng 3.6.4

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=====

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A: Yes, that's exactly the point of open source. Works derived from the
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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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1.165 uriparser 0.8.0
:2d0acf37dc8528874ba443ffc0e9ae5e

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uriparser - RFC 3986 URI parsing library

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

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1.174 zlib 1.2.8

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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