



## Open Source Used In VGW10 for Infinite Home rdk2.1-20150908

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That's all there is to it!

## 1.3 base-passwd 3.5.29

### 1.3.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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Files: doc/\*

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```

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```

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```

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```

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

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## 1.5 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*
    (
      \[s* (?:\d{4}(?:,\s*|-))* (\d{4}) \s*\]
    )
  )?
  \)
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 ();

```



```

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;
}

```

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@enumerate 0

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## 1.6 busybox 1.22.1

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Julian Seward, Cambridge, UK.

[jseward@acm.org](mailto:jseward@acm.org)

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo ([tsuneo@rr.iij4u.or.jp](mailto:tsuneo@rr.iij4u.or.jp))

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```
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```

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>

If you find bugs, correct flaws, have questions or have comments in general in regard to c-ares (or by all means the original ares too), get in touch with us on the c-ares mailing list: <http://cool.haxx.se/mailman/listinfo/c-ares>

c-ares is of course distributed under the same MIT-style license as the original 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.

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* Comments must be written in the old-style /* unnested C-fashion */

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* getopt.c --
*
*   Standard UNIX getopt function.  Code is from BSD.
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## 1.9 ca-certificates 20130610 :9f3c12784e

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Source: <http://ftp.debian.org/debian/pool/main/c/ca-certificates/>

Files: sbin/update-ca-certificates

mozilla/certdata2pem.py

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## 1.12 coreutils 6.9

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<one line to give the program's name and a brief idea of what it does.>  
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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## 1.13 cracklib 2.9.1

### 1.13.1 Available under license :

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

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

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

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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

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

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

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

> Mike Frysinger

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

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

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

> libraries under

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

> -mike

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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

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

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=



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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

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

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

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

> Mike Frysinger

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

> To: Neulinger, Nathan

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

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

>=20

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

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

> directly

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

> point,

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

> it was

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

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

>=20

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> not

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

> license

> change until it was mentioned in the latest notes.

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> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.  
>>  
>> I am sympathetic. Guys, what do you reckon?  
>>  
>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>

> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
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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 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

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

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

Happy now? :-)

-a

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Version 2.1, February 1999

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## 1.14 cryptodev-linux 1.6

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## 1.15 curl 7.35.0

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=====



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yassl <http://www.yassl.com/>

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zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

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krb4

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## 1.16 dante 1.4.0-pre1

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\*\* The name of this file under configuration management is "sqlite.h.in".

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```
/* dbus-bash-completion-helper.c Bash Completion helper routines
```

```
*
```

```
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## 1.22 directfb 1.7.4

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## 1.24 dropbear 2014.63 :19 February 2014

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\*

\* curve25519-donna: Curve25519 elliptic curve, public key function  
\*  
\* <http://code.google.com/p/curve25519-donna/>  
\*  
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\*  
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\*  
\* 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 reimplementaion 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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/\*

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

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

- trivial database library - private includes

- 

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```
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```

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```
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Theodore Ts'o  
23-June-2007

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```

```
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**:7ad6294cfc27f2fe60cdf50e253d0d4f**

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**:edae5ffb7359e4dda801d46f6fdcd90a**

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Specifically, the GPL parts of FFmpeg are

- libpostproc
- optional x86 optimizations in the files  
libavcodec/x86/idct\_mmx.c
- the X11 grabber in libavdevice/x11grab.c

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

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

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external libraries:

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## 1.28 findutils 4.2.31

**:c0c8b511cde0419ebb6984250b7f4870**

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## 1.30 flup 1.0.2

**:7a54b5be0d470e8da5e083212475aec0**

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## 1.31 fontconfig 2.11.0

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/\*

\* fontconfig/src/fcfonttype.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" },

```

```

{ TT_PLATFORM_MACINTOSH, TT_MAC_ID_JAPANESE, "SJIS" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_SYMBOL_CS, "UTF-16BE" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_UNICODE_CS, "UTF-16BE" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_SJIS, "SJIS-WIN" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_GB2312, "GB2312" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_BIG_5, "BIG-5" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_WANSUNG, "Wansung" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_JOHAB, "Johab" },
{ TT_PLATFORM_MICROSOFT, TT_MS_ID_UCS_4, "UTF-16BE" },
{ TT_PLATFORM_ISO, TT_ISO_ID_7BIT_ASCII, "ASCII" },
{ TT_PLATFORM_ISO, TT_ISO_ID_10646, "UTF-16BE" },
{ TT_PLATFORM_ISO, TT_ISO_ID_8859_1, "ISO-8859-1" },
};

```

```

#define NUM_FC_FT_ENCODING (int) (sizeof (fcFtEncoding) / sizeof (fcFtEncoding[0]))

```

```

typedef struct {
    const FT_UShort platform_id;
    const FT_UShort language_id;
    const char lang[8];
} FcFtLanguage;

```

```

#define TT_LANGUAGE_DONT_CARE 0xffff

```

```

static const FcFtLanguage fcFtLanguage[] = {
{ TT_PLATFORM_APPLE_UNICODE, TT_LANGUAGE_DONT_CARE, "" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ENGLISH, "en" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FRENCH, "fr" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GERMAN, "de" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ITALIAN, "it" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_DUTCH, "nl" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SWEDISH, "sv" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SPANISH, "es" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_DANISH, "da" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_PORTUGUESE, "pt" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_NORWEGIAN, "no" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_HEBREW, "he" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_JAPANESE, "ja" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ARABIC, "ar" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FINNISH, "fi" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GREEK, "el" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ICELANDIC, "is" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MALTESE, "mt" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TURKISH, "tr" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CROATIAN, "hr" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CHINESE_TRADITIONAL, "zh-tw" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_URDU, "ur" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_HINDI, "hi" },

```

```

{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_THAI, "th" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KOREAN, "ko" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_LITHUANIAN, "lt" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_POLISH, "pl" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_HUNGARIAN, "hu" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ESTONIAN, "et" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_LETTISH, "lv" },
/* { TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SAAMISK, ??? */
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FAEROESE, "fo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FARSI, "fa" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_RUSSIAN, "ru" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CHINESE_SIMPLIFIED, "zh-cn" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_FLEMISH, "nl" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_IRISH, "ga" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ALBANIAN, "sq" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ROMANIAN, "ro" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_CZECH, "cs" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SLOVAK, "sk" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SLOVENIAN, "sl" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_YIDDISH, "yi" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SERBIAN, "sr" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MACEDONIAN, "mk" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BULGARIAN, "bg" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_UKRAINIAN, "uk" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BYELORUSSIAN, "be" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_UZBEK, "uz" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KAZAKH, "kk" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI, "az" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI_CYRILLIC_SCRIPT, "az" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI_ARABIC_SCRIPT, "ar" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ARMENIAN, "hy" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GEORGIAN, "ka" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MOLDAVIAN, "mo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KIRGHIZ, "ky" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TAJIKI, "tg" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TURKMEN, "tk" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MONGOLIAN, "mo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MONGOLIAN_MONGOLIAN_SCRIPT, "mo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MONGOLIAN_CYRILLIC_SCRIPT, "mo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_PASHTO, "ps" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KURDISH, "ku" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KASHMIRI, "ks" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SINDHI, "sd" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TIBETAN, "bo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_NEPALI, "ne" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SANSKRIT, "sa" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MARATHI, "mr" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BENGALI, "bn" },

```

```

{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ASSAMESE, "as" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_GUJARATI, "gu" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_PUNJABI, "pa" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_ORIYA, "or" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_MALAYALAM, "ml" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KANNADA, "kn" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TAMIL, "ta" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TELUGU, "te" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_SINHALESE, "si" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_BURMESE, "my" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_KHMER, "km" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_LAO, "lo" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_VIETNAMESE, "vi" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_INDONESIAN, "id" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_TAGALOG, "tl" },
{ 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, "rn" },
{ 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_GREELANDIC, "ik" },
{ TT_PLATFORM_MACINTOSH, TT_MAC_LANGID_AZERBAIJANI_ROMAN_SCRIPT, "az" },

```

```

{ 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\_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\_MEXICO, "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_URDU_PAKISTAN, "ur" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_INDONESIAN_INDONESIA, "id" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_UKRAINIAN_UKRAINE, "uk" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_BELARUSIAN_BELARUS, "be" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SLOVENE_SLOVENIA, "sl" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ESTONIAN_ESTONIA, "et" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_LATVIAN_LATVIA, "lv" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_LITHUANIAN_LITHUANIA, "lt" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_CLASSIC_LITHUANIAN_LITHUANIA, "lt" },

```

```

#ifndef TT_MS_LANGID_MAORI_NEW_ZELAND

```

```

    /* this seems to be an error that have been dropped */

```

```

{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MAORI_NEW_ZELAND, "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_URDU_INDIA, "ur" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TAJIK_TAJIKISTAN, "tg" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_YIDDISH_GERMANY, "yi" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KIRGHIZ_KIRGHIZSTAN, "ky" },

{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TURKMEN_TURKMENISTAN, "tk" },

```

```

{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MONGOLIAN_MONGOLIA, "mn" },

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

{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_WELSH_WALES, "cy" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KHMER_CAMBODIA, "km" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_LAO_LAOS, "lo" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_BURMESE_MYANMAR, "my" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_GALICIAN_SPAIN, "gl" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_MANIPURI_INDIA, "mni" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SINDHI_INDIA, "sd" },
/* the following one is only encountered in Microsoft RTF specification */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KASHMIRI_PAKISTAN, "ks" },
/* the following one is not in the Passport list, looks like an omission */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_KASHMIRI_INDIA, "ks" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_NEPALI_NEPAL, "ne" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_NEPALI_INDIA, "ne" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FRISIAN_NETHERLANDS, "fy" },

/* new as of 2001-03-01 (from Office Xp) */
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_HONG_KONG, "en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_INDIA, "en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_MALAYSIA, "en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_ENGLISH_SINGAPORE, "en" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SYRIAC_SYRIA, "syr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_SINHALESE_SRI_LANKA, "si" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_CHEROKEE_UNITED_STATES, "chr" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_INUKTITUT_CANADA, "iu" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_AMHARIC_ETHIOPIA, "am" },
#if 0
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TAMAZIGHT_MOROCCO },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TAMAZIGHT_MOROCCO_LATIN },
#endif
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_PASHTO_AFGHANISTAN, "ps" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_FILIPINO_PHILIPPINES, "phi" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_DHIVEHI_MALDIVES, "div" },

{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_OROMO_ETHIOPIA, "om" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TIGRIGNA_ETHIOPIA, "ti" },
{ TT_PLATFORM_MICROSOFT, TT_MS_LANGID_TIGRIGNA_ERYTHREA, "ti" },

/* New additions from Windows Xp/Passport SDK 2001-11-10. */

```

```

/* don't ask what this one means... It is commented out currently. */
#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 >,. */
{ 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 */
/* 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[] = {

```

```

{ TT_MS_LANGID_JAPANESE_JAPAN, "SJIS-WIN" },
{ TT_MS_LANGID_ENGLISH_UNITED_STATES, "ASCII" },
};

static FcChar8 *
FcFontCapabilities(FT_Face face);

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

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

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

    while (len-- > 0)
    {
        if (*string++ & 0x80) nhigh++;
        else nlow++;
    }
    /*
     * Heuristic -- if more than 1/3 of the bytes have the high-bit set,
     * this is likely to be SJIS and not ROMAN
     */
    if (nhigh * 2 > nlow)
        return FcTrue;
    return FcFalse;
}

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

    for (i = 0; i < NUM_FC_FT_ENCODING; i++)
        if (fcFtEncoding[i].platform_id == sname->platform_id &&
            (fcFtEncoding[i].encoding_id == TT_ENCODING_DONT_CARE ||

```

```

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

/*
 * 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 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"},
    {"Torsh", "culmus"},
    {"HanYang System", "hanyang"},
    {"Font21", "hwan"},
    {"IBM", "ibm"},
    {"International Typeface Corporation", "itc"},
    {"Linotype", "linotype"},
    {"LINOTYPE-HELL", "linotype"},
    {"Microsoft", "microsoft"},
}

```

```

    {"Monotype", "monotype"},
    {"Omega", "omega"},
    {"Tiro Typeworks", "tiro"},
    {"URW", "urw"},
    {"XFree86", "xfree86"},
    {"Xorg", "xorg"},
};

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

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

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

        if (strstr ((const char *) notice, n))
        return (const FcChar8 *) f;
    }
    return 0;
}

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

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

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

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

static const struct {

```

```

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

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

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

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

```

```

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

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

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

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

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

typedef FcChar8 *FC8;

static const FcStringConst weightConsts[] = {
    { (FC8) "thin", FC_WEIGHT_THIN },
    { (FC8) "extralight", FC_WEIGHT_EXTRALIGHT },
    { (FC8) "ultralight", FC_WEIGHT_ULTRALIGHT },
}

```

```

{ (FC8) "light", FC_WEIGHT_LIGHT },
{ (FC8) "book", FC_WEIGHT_BOOK },
{ (FC8) "regular", FC_WEIGHT_REGULAR },
{ (FC8) "normal", FC_WEIGHT_NORMAL },
{ (FC8) "medium", FC_WEIGHT_MEDIUM },
{ (FC8) "demibold", FC_WEIGHT_DEMIBOLD },
{ (FC8) "demi", FC_WEIGHT_DEMIBOLD },
{ (FC8) "semibold", FC_WEIGHT_SEMIBOLD },
{ (FC8) "extrabold", FC_WEIGHT_EXTRABOLD },
{ (FC8) "superbold", FC_WEIGHT_EXTRABOLD },
{ (FC8) "ultrabold", FC_WEIGHT_ULTRABOLD },
{ (FC8) "bold", FC_WEIGHT_BOLD },
{ (FC8) "ultrablack", FC_WEIGHT_ULTRABLACK },
{ (FC8) "superblack", FC_WEIGHT_EXTRABLACK },
{ (FC8) "extrablack", FC_WEIGHT_EXTRABLACK },
{ (FC8) "<ultra", FC_WEIGHT_ULTRABOLD }, /* only if a word */
{ (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) "romansc", 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)
{
#ifdef 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
#ifdef HAVE_FT_BITMAP_SIZE_Y_PPEM
    return (double) face->available_sizes[i].y_ppem / 64.0;
#else
    return (double) face->available_sizes[i].height;
#endif
}

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

```

```

}
return FcFalse;
}

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

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

#define NUM_NAMEID_ORDER (sizeof (nameid_order) / sizeof (nameid_order[0]))
FcPattern *
FcFreeTypeQueryFace (const FT_Face face,
    const FcChar8 *file,
    int id,
    FcBlanks *blanks)
{
    FcPattern *pat;
    int slant = -1;
    int weight = -1;
    int width = -1;
    FcBool decorative = FcFalse;
    int i;
    FcCharSet *cs;
    FcLangSet *ls;
#ifdef 0
    FcChar8 *family = 0;
#endif
    FcChar8 *complex_;
    const FcChar8 *foundry = 0;

```



```

    int    spacing;
    TT_OS2  *os2;
#ifdef HAVE_FT_GET_PS_FONT_INFO
    PS_FontInfoRec  psfontinfo;
#endif
#ifdef 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 be 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;

```

```

/*
 * 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
#ifdef TT_NAME_ID_PREFERRED_FAMILY:
    case TT_NAME_ID_PREFERRED_FAMILY:
#endif
#ifdef TT_NAME_ID_FONT_FAMILY:
    case TT_NAME_ID_FONT_FAMILY:
#endif
    #if 0
    case TT_NAME_ID_UNIQUE_ID:
    #endif
        if (FcDebug () & FC_DBG_SCANV)
            printf ("found family (n %2d p %d e %d l 0x%04x) %s\n",
                sname.name_id, sname.platform_id,
                sname.encoding_id, sname.language_id,
                utf8);

        elt = FC_FAMILY;
        eltlang = FC_FAMILYLANG;
        np = &nfamily;
        nlangp = &nfamily_lang;
        break;
    case TT_NAME_ID_MAC_FULL_NAME:
    case TT_NAME_ID_FULL_NAME:
        if (FcDebug () & FC_DBG_SCANV)

```

```

printf ("found full  (n %2d p %d e %d l 0x%04x) %s\n",
sname.name_id, sname.platform_id,
sname.encoding_id, sname.language_id,
utf8);

elt = FC_FULLNAME;
eltlang = FC_FULLNAMELANG;
np = &nfullname;
nlangp = &nfullname_lang;
break;
#ifdef TT_NAME_ID_WWS_SUBFAMILY
case TT_NAME_ID_WWS_SUBFAMILY:
#endif
case TT_NAME_ID_PREFERRED_SUBFAMILY:
case TT_NAME_ID_FONT_SUBFAMILY:
    if (utf8)
    {
pp = utf8;
while (*pp == ' ')
    pp++;
len = strlen ((const char *) pp);
memmove (utf8, pp, len + 1);
pp = utf8 + len - 1;
while (*pp == ' ')
    pp--;
*(pp + 1) = 0;
    }
    if (FcDebug () & FC_DBG_SCANV)
printf ("found style  (n %2d p %d e %d l 0x%04x) %s\n",
sname.name_id, sname.platform_id,
sname.encoding_id, sname.language_id,
utf8);

elt = FC_STYLE;
eltlang = FC_STYLELANG;
np = &nstyle;
nlangp = &nstyle_lang;
break;
case TT_NAME_ID_TRADEMARK:
case TT_NAME_ID_MANUFACTURER:
    /* If the foundry wasn't found in the OS/2 table, look here */
    if (!foundry)
foundry = FcNoticeFoundry((FT_String *) utf8);
    break;
}
if (elt)
{
    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;
    }
    ++*np;
}
else
    free (utf8);
}
}

if (!Infamily && 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 (!Instyle && 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 (!family)
{
FcChar8 *start, *end;
FcChar8 *family;

start = (FcChar8 *) strrchr ((char *) file, '/');
if (start)
    start++;
else
    start = (FcChar8 *) file;
end = (FcChar8 *) strrchr ((char *) start, '.');
if (!end)
    end = start + strlen ((char *) start);
/* freed below */
family = malloc (end - start + 1);
strncpy ((char *) family, (char *) start, end - start);
family[end - start] = '\0';
if (FcDebug () & FC_DBG_SCANV)
    printf ("using filename for family %s\n", family);
if (!FcPatternAddString (pat, FC_FAMILY, family))
{
    free (family);
    goto bail1;
}
free (family);
++nfamily;
}

/* Add the PostScript name into the cache */
tmp = FT_Get_Postscript_Name (face);
if (!tmp)
{
FcChar8 *family, *familylang = NULL;
size_t len;
int n = 0;

/* Workaround when FT_Get_Postscript_Name didn't give any name.
 * try to find out the English family name and convert.
 */
while (FcPatternObjectGetString (pat, FC_FAMILYLANG_OBJECT, n, &familylang) == FcResultMatch)
{
    if (FcStrCmp (familylang, (const FcChar8 *)"en") == 0)
        break;
}
}

```

```

    n++;
    familylang = NULL;
}
if (!familylang)
    n = 0;

if (FcPatternObjectGetString (pat, FC_FAMILY_OBJECT, n, &family) != FcResultMatch)
    goto bail1;
len = strlen ((const char *)family);
/* the literal name in PostScript Language is limited to 127 characters though,
 * It is the architectural limit. so assuming 255 characters may works enough.
 */
for (i = 0; i < len && i < 255; i++)
{
    /* those characters are not allowed to be the literal name in PostScript */
    static const char exclusive_chars[] = "\x04()/<>[]{}\\t\\f\\r\\n ";

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

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

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

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

```

```

/*
 * Find the font revision (if available)
 */
head = (TT_Header *) FT_Get_Sfnt_Table (face, ft_sfnt_head);
if (head)
{
if (!FcPatternAddInteger (pat, FC_FONTVERSION, head->Font_Revision))
    goto bail1;
}
else
{
if (!FcPatternAddInteger (pat, FC_FONTVERSION, 0))
    goto bail1;
}

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

```



```

    if (os2 && os2->version != 0xffff)
    {
if (os2->usWeightClass == 0)
    ;
else if (os2->usWeightClass < 150)
    weight = FC_WEIGHT_THIN;
else if (os2->usWeightClass < 250)
    weight = FC_WEIGHT_EXTRALIGHT;
else if (os2->usWeightClass < 350)
    weight = FC_WEIGHT_LIGHT;
else if (os2->usWeightClass < 450)
    weight = FC_WEIGHT_REGULAR;
else if (os2->usWeightClass < 550)
    weight = FC_WEIGHT_MEDIUM;
else if (os2->usWeightClass < 650)
    weight = FC_WEIGHT_SEMIBOLD;
else if (os2->usWeightClass < 750)
    weight = FC_WEIGHT_BOLD;
else if (os2->usWeightClass < 850)
    weight = FC_WEIGHT_EXTRABOLD;
else if (os2->usWeightClass < 925)
    weight = FC_WEIGHT_BLACK;
else if (os2->usWeightClass < 1000)
    weight = FC_WEIGHT_EXTRABLACK;
if ((FcDebug() & FC_DBG_SCANV) && weight != -1)
    printf ("\tos2 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 ("\tos2 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 bail;
}
free (complex_);
}

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

#if HAVE_FT_GET_PS_FONT_INFO
if (FT_Get_PS_Font_Info(face, &psfontinfo) == 0)
{
if (weight == -1 && psfontinfo.weight)
{
weight = FcIsWeight ((FcChar8 *) psfontinfo.weight);
if (FcDebug() & FC_DBG_SCANV)
printf ("\tType1 weight %s maps to %d\n",
psfontinfo.weight, weight);
}
}

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

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

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

if (!foundry)
{
int rc;
rc = FT_Get_BDF_Property(face, "FOUNDRY", &prop);
if(rc == 0 && prop.type == BDF_PROPERTY_TYPE_ATOM)

```

```

    foundry = (FcChar8 *) prop.u.atom;
}

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

    if (prop.type == BDF_PROPERTY_TYPE_INTEGER)
value = prop.u.integer;
    else
value = (FT_Int32) prop.u.cardinal;
    switch ((value + 5) / 10) {
    case 1: width = FC_WIDTH_ULTRACONDENSED; break;
    case 2: width = FC_WIDTH_EXTRACONDENSED; break;
    case 3: width = FC_WIDTH_CONDENSED; break;
    case 4: width = FC_WIDTH_SEMICONDENSED; break;
    case 5: width = FC_WIDTH_NORMAL; break;
    case 6: width = FC_WIDTH_SEMIEXPANDED; break;
    case 7: width = FC_WIDTH_EXPANDED; break;
    case 8: width = FC_WIDTH_EXTRAEXPANDED; break;
    case 9: width = FC_WIDTH_ULTRAEXPANDED; break;
    }
}
if (width == -1 &&
    FT_Get_BDF_Property (face, "SETWIDTH_NAME", &prop) == 0 &&
    prop.type == BDF_PROPERTY_TYPE_ATOM)
{
    width = FcIsWidth ((FcChar8 *) prop.u.atom);
    if (FcDebug () & FC_DBG_SCANV)
printf ("\tsetwidth %s maps to %d\n", prop.u.atom, width);
}
}
#endif

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

```

```

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

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

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

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

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

if (!FcPatternAddInteger (pat, FC_WEIGHT, weight))

```

```

goto bail1;

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

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

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

    err = FT_Load_Sfnt_Table (face, 0, 0, NULL, &len);
    if (err == FT_Err_Ok)
    {
char *fontdata;

    alen = (len + 63) & ~63;
    fontdata = malloc (alen);
    if (!fontdata)
        goto bail3;
    err = FT_Load_Sfnt_Table (face, 0, 0, (FT_Byte *)fontdata, &len);
    if (err != FT_Err_Ok)
    {
        free (fontdata);
        goto bail3;
    }
    memset (&fontdata[len], 0, alen - len);
    hashstr = FcHashGetSHA256DigestFromMemory (fontdata, len);
    free (fontdata);
    }
    else if (err == FT_Err_Invalid_Face_Handle)
    {
/* 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;
    }
#ifdef HAVE_FT_GET_X11_FONT_FORMAT
    /*
     * 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) >= 0xffff ? \
    (*(gi) = 0), 0 : \
    (*(gi) = 1), (ucs4) + 1)
#warning "No FT_Get_Next_Char: Please install freetype version 2.1.0 or newer"
#endif

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

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

typedef struct _FcFontDecode {
    FT_Encoding encoding;

```



```

const FcCharMap *map;
FcChar32  max;
} FcFontDecode;

static const FcCharEnt AdobeSymbolEnt[] = {
    { 0x0020, 0x20 }, /* SPACE # space */
    { 0x0021, 0x21 }, /* EXCLAMATION MARK # exclam */
    { 0x0023, 0x23 }, /* NUMBER SIGN # numbersign */
    { 0x0025, 0x25 }, /* PERCENT SIGN # percent */
    { 0x0026, 0x26 }, /* AMPERSAND # ampersand */
    { 0x0028, 0x28 }, /* LEFT PARENTHESIS # parenleft */
    { 0x0029, 0x29 }, /* RIGHT PARENTHESIS # parenright */
    { 0x002B, 0x2B }, /* PLUS SIGN # plus */
    { 0x002C, 0x2C }, /* COMMA # comma */
    { 0x002E, 0x2E }, /* FULL STOP # period */
    { 0x002F, 0x2F }, /* SOLIDUS # slash */
    { 0x0030, 0x30 }, /* DIGIT ZERO # zero */
    { 0x0031, 0x31 }, /* DIGIT ONE # one */
    { 0x0032, 0x32 }, /* DIGIT TWO # two */
    { 0x0033, 0x33 }, /* DIGIT THREE # three */
    { 0x0034, 0x34 }, /* DIGIT FOUR # four */
    { 0x0035, 0x35 }, /* DIGIT FIVE # five */
    { 0x0036, 0x36 }, /* DIGIT SIX # six */
    { 0x0037, 0x37 }, /* DIGIT SEVEN # seven */
    { 0x0038, 0x38 }, /* DIGIT EIGHT # eight */
    { 0x0039, 0x39 }, /* DIGIT NINE # nine */
    { 0x003A, 0x3A }, /* COLON # colon */
    { 0x003B, 0x3B }, /* SEMICOLON # semicolon */
    { 0x003C, 0x3C }, /* LESS-THAN SIGN # less */
    { 0x003D, 0x3D }, /* EQUALS SIGN # equal */
    { 0x003E, 0x3E }, /* GREATER-THAN SIGN # greater */
    { 0x003F, 0x3F }, /* QUESTION MARK # question */
    { 0x005B, 0x5B }, /* LEFT SQUARE BRACKET # bracketleft */
    { 0x005D, 0x5D }, /* RIGHT SQUARE BRACKET # bracketright */
    { 0x005F, 0x5F }, /* LOW LINE # underscore */
    { 0x007B, 0x7B }, /* LEFT CURLY BRACKET # braceleft */
    { 0x007C, 0x7C }, /* VERTICAL LINE # bar */
    { 0x007D, 0x7D }, /* RIGHT CURLY BRACKET # braceright */
    { 0x00A0, 0x20 }, /* NO-BREAK SPACE # space */
    { 0x00AC, 0xD8 }, /* NOT SIGN # logicalnot */
    { 0x00B0, 0xB0 }, /* DEGREE SIGN # degree */
    { 0x00B1, 0xB1 }, /* PLUS-MINUS SIGN # plusminus */
    { 0x00B5, 0x6D }, /* MICRO SIGN # mu */
    { 0x00D7, 0xB4 }, /* MULTIPLICATION SIGN # multiply */
    { 0x00F7, 0xB8 }, /* DIVISION SIGN # divide */
    { 0x0192, 0xA6 }, /* LATIN SMALL LETTER F WITH HOOK # florin */
    { 0x0391, 0x41 }, /* GREEK CAPITAL LETTER ALPHA # Alpha */
    { 0x0392, 0x42 }, /* GREEK CAPITAL LETTER BETA # Beta */

```

{ 0x0393, 0x47 }, /\* GREEK CAPITAL LETTER GAMMA # Gamma \*/  
 { 0x0394, 0x44 }, /\* GREEK CAPITAL LETTER DELTA # Delta \*/  
 { 0x0395, 0x45 }, /\* GREEK CAPITAL LETTER EPSILON # Epsilon \*/  
 { 0x0396, 0x5A }, /\* GREEK CAPITAL LETTER ZETA # Zeta \*/  
 { 0x0397, 0x48 }, /\* GREEK CAPITAL LETTER ETA # Eta \*/  
 { 0x0398, 0x51 }, /\* GREEK CAPITAL LETTER THETA # Theta \*/  
 { 0x0399, 0x49 }, /\* GREEK CAPITAL LETTER IOTA # Iota \*/  
 { 0x039A, 0x4B }, /\* GREEK CAPITAL LETTER KAPPA # Kappa \*/  
 { 0x039B, 0x4C }, /\* GREEK CAPITAL LETTER LAMDA # Lambda \*/  
 { 0x039C, 0x4D }, /\* 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 \*/  
 { 0x2044, 0xA4 }, /\* FRACTION SLASH # fraction \*/  
 { 0x20AC, 0xA0 }, /\* EURO SIGN # Euro \*/  
 { 0x2111, 0xC1 }, /\* BLACK-LETTER CAPITAL I # Ifraktur \*/  
 { 0x2118, 0xC3 }, /\* SCRIPT CAPITAL P # weierstrass \*/  
 { 0x211C, 0xC2 }, /\* BLACK-LETTER CAPITAL R # Rfraktur \*/  
 { 0x2126, 0x57 }, /\* OHM SIGN # Omega \*/  
 { 0x2135, 0xC0 }, /\* ALEF SYMBOL # aleph \*/  
 { 0x2190, 0xAC }, /\* LEFTWARDS ARROW # arrowleft \*/  
 { 0x2191, 0xAD }, /\* UPWARDS ARROW # arrowup \*/  
 { 0x2192, 0xAE }, /\* RIGHTWARDS ARROW # arrowright \*/  
 { 0x2193, 0xAF }, /\* DOWNWARDS ARROW # arrowdown \*/  
 { 0x2194, 0xAB }, /\* LEFT RIGHT ARROW # arrowboth \*/  
 { 0x21B5, 0xBF }, /\* DOWNWARDS ARROW WITH CORNER LEFTWARDS # carriagereturn \*/  
 { 0x21D0, 0xDC }, /\* LEFTWARDS DOUBLE ARROW # arrowdblleft \*/  
 { 0x21D1, 0xDD }, /\* UPWARDS DOUBLE ARROW # arrowdblup \*/  
 { 0x21D2, 0xDE }, /\* RIGHTWARDS DOUBLE ARROW # arrowdblright \*/  
 { 0x21D3, 0xDF }, /\* DOWNWARDS DOUBLE ARROW # arrowdbldown \*/  
 { 0x21D4, 0xDB }, /\* LEFT RIGHT DOUBLE ARROW # arrowdblboth \*/  
 { 0x2200, 0x22 }, /\* FOR ALL # universal \*/  
 { 0x2202, 0xB6 }, /\* PARTIAL DIFFERENTIAL # partialdiff \*/  
 { 0x2203, 0x24 }, /\* THERE EXISTS # existential \*/  
 { 0x2205, 0xC6 }, /\* EMPTY SET # emptyset \*/  
 { 0x2206, 0x44 }, /\* INCREMENT # Delta \*/  
 { 0x2207, 0xD1 }, /\* NABLA # gradient \*/  
 { 0x2208, 0xCE }, /\* ELEMENT OF # element \*/  
 { 0x2209, 0xCF }, /\* NOT AN ELEMENT OF # notelement \*/  
 { 0x220B, 0x27 }, /\* CONTAINS AS MEMBER # suchthat \*/  
 { 0x220F, 0xD5 }, /\* N-ARY PRODUCT # product \*/  
 { 0x2211, 0xE5 }, /\* N-ARY SUMMATION # summation \*/  
 { 0x2212, 0x2D }, /\* MINUS SIGN # minus \*/  
 { 0x2215, 0xA4 }, /\* DIVISION SLASH # fraction \*/  
 { 0x2217, 0x2A }, /\* ASTERISK OPERATOR # asteriskmath \*/  
 { 0x221A, 0xD6 }, /\* SQUARE ROOT # radical \*/  
 { 0x221D, 0xB5 }, /\* PROPORTIONAL TO # proportional \*/  
 { 0x221E, 0xA5 }, /\* INFINITY # infinity \*/  
 { 0x2220, 0xD0 }, /\* ANGLE # angle \*/  
 { 0x2227, 0xD9 }, /\* LOGICAL AND # logicaland \*/  
 { 0x2228, 0xDA }, /\* LOGICAL OR # logicalor \*/  
 { 0x2229, 0xC7 }, /\* INTERSECTION # intersection \*/  
 { 0x222A, 0xC8 }, /\* UNION # union \*/  
 { 0x222B, 0xF2 }, /\* INTEGRAL # integral \*/

{ 0x2234, 0x5C }, /\* THEREFORE # therefore \*/  
 { 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, 0xB3 }, /\* GREATER-THAN OR EQUAL TO # greaterequal \*/  
 { 0x2282, 0xCC }, /\* SUBSET OF # propersubset \*/  
 { 0x2283, 0xC9 }, /\* SUPERSET OF # propersuperset \*/  
 { 0x2284, 0xCB }, /\* NOT A SUBSET OF # notsubset \*/  
 { 0x2286, 0xCD }, /\* SUBSET OF OR EQUAL TO # reflexsubset \*/  
 { 0x2287, 0xCA }, /\* SUPERSET OF OR EQUAL TO # reflexsuperset \*/  
 { 0x2295, 0xC5 }, /\* CIRCLED PLUS # circleplus \*/  
 { 0x2297, 0xC4 }, /\* CIRCLED TIMES # circlemultiply \*/  
 { 0x22A5, 0x5E }, /\* UP TACK # perpendicular \*/  
 { 0x22C5, 0xD7 }, /\* DOT OPERATOR # dotmath \*/  
 { 0x2320, 0xF3 }, /\* TOP HALF INTEGRAL # integraltop \*/  
 { 0x2321, 0xF5 }, /\* BOTTOM HALF INTEGRAL # integralbottom \*/  
 { 0x2329, 0xE1 }, /\* LEFT-POINTING ANGLE BRACKET # angleleft \*/  
 { 0x232A, 0xF1 }, /\* RIGHT-POINTING ANGLE BRACKET # angleright \*/  
 { 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 \*/  
 { 0xF6D9, 0xD3 }, /\* COPYRIGHT SIGN SERIF # copyrightserif (CUS) \*/  
 { 0xF6DA, 0xD2 }, /\* REGISTERED SIGN SERIF # registerserif (CUS) \*/  
 { 0xF6DB, 0xD4 }, /\* TRADE MARK SIGN SERIF # trademarkserif (CUS) \*/  
 { 0xF8E5, 0x60 }, /\* RADICAL EXTENDER # radicalex (CUS) \*/  
 { 0xF8E6, 0xBD }, /\* VERTICAL ARROW EXTENDER # arrowvertex (CUS) \*/  
 { 0xF8E7, 0xBE }, /\* HORIZONTAL ARROW EXTENDER # arrowhorizex (CUS) \*/  
 { 0xF8E8, 0xE2 }, /\* REGISTERED SIGN SANS SERIF # registersans (CUS) \*/  
 { 0xF8E9, 0xE3 }, /\* COPYRIGHT SIGN SANS SERIF # copyrightsans (CUS) \*/  
 { 0xF8EA, 0xE4 }, /\* TRADE MARK SIGN SANS SERIF # trademarksans (CUS) \*/  
 { 0xF8EB, 0xE6 }, /\* LEFT PAREN TOP # parenlefttop (CUS) \*/  
 { 0xF8EC, 0xE7 }, /\* LEFT PAREN EXTENDER # parenleftex (CUS) \*/  
 { 0xF8ED, 0xE8 }, /\* LEFT PAREN BOTTOM # parenleftbottom (CUS) \*/  
 { 0xF8EE, 0xE9 }, /\* LEFT SQUARE BRACKET TOP # bracketlefttop (CUS) \*/  
 { 0xF8EF, 0xEA }, /\* LEFT SQUARE BRACKET EXTENDER # bracketleftex (CUS) \*/  
 { 0xF8F0, 0xEB }, /\* LEFT SQUARE BRACKET BOTTOM # bracketleftbottom (CUS) \*/  
 { 0xF8F1, 0xEC }, /\* LEFT CURLY BRACKET TOP # bracelefttop (CUS) \*/  
 { 0xF8F2, 0xED }, /\* LEFT CURLY BRACKET MID # braceleftmid (CUS) \*/  
 { 0xF8F3, 0xEE }, /\* LEFT CURLY BRACKET BOTTOM # braceleftbottom (CUS) \*/  
 { 0xF8F4, 0xEF }, /\* CURLY BRACKET EXTENDER # braceex (CUS) \*/  
 { 0xF8F5, 0xF4 }, /\* INTEGRAL EXTENDER # integralex (CUS) \*/  
 { 0xF8F6, 0xF6 }, /\* RIGHT PAREN TOP # parenrighttop (CUS) \*/  
 { 0xF8F7, 0xF7 }, /\* RIGHT PAREN EXTENDER # parenrightex (CUS) \*/

```

{ 0xF8F8, 0xF8 }, /* RIGHT PAREN BOTTOM # parenrightbt (CUS) */
{ 0xF8F9, 0xF9 }, /* RIGHT SQUARE BRACKET TOP # bracketrighttp (CUS) */
{ 0xF8FA, 0xFA }, /* RIGHT SQUARE BRACKET EXTENDER # bracketrightex (CUS) */
{ 0xF8FB, 0xFB }, /* RIGHT SQUARE BRACKET BOTTOM # bracketrightbt (CUS) */
{ 0xF8FC, 0xFC }, /* RIGHT CURLY BRACKET TOP # bracerighttp (CUS) */
{ 0xF8FD, 0xFD }, /* RIGHT CURLY BRACKET MID # bracerightmid (CUS) */
{ 0xF8FE, 0xFE }, /* RIGHT CURLY BRACKET BOTTOM # bracerightbt (CUS) */
};

```

```

static const FcCharMap AdobeSymbol = {
    AdobeSymbolEnt,
    sizeof (AdobeSymbolEnt) / sizeof (AdobeSymbolEnt[0]),
};

```

```

static const FcFontDecode fcFontDecoders[] = {
    { ft_encoding_unicode, 0, (1 << 21) - 1 },
    { ft_encoding_symbol, &AdobeSymbol, (1 << 16) - 1 },
};

```

```

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

```

```

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

```

```

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

```

FcChar32

FcFreeTypeUcs4ToPrivate (FcChar32 ucs4, const FcCharMap \*map)

```

{
    int low, high, mid;
    FcChar16 bmp;

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

```

```

    return ~0;
}

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

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

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

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

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

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

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

#ifdef 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);
int r = 0;
FcGlyphId gn;

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

```

```

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

while ((gn = _fc_name_to_ucs[i]) != -1)
{
if (!strcmp ((char *) name, (char *) _fc_glyph_names[gn].name))
return _fc_glyph_names[gn].ucs;
if (!r)
{

```

```

    r = (int) (h % FC_GLYPHNAME_REHASH);
    if (!r)
    r = 1;
}
i += r;
if (i >= FC_GLYPHNAME_HASH)
    i -= FC_GLYPHNAME_HASH;
}
return 0xffff;
}

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

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

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

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

/*
 * Map a UCS4 glyph to a glyph index. Use all available encoding
 * tables to try and find one that works. This information is expected

```



```

* to be cached by higher levels, so performance isn't critical
*/

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

    initial = 0;

    if (!face)
        return 0;

    /*
     * Find the current encoding
     */
    if (face->charmap)
    {
        for (; initial < NUM_DECODE; initial++)
            if (fcFontDecoders[initial].encoding == face->charmap->encoding)
                break;
        if (initial == NUM_DECODE)
            initial = 0;
        for (p = 0; p < NUM_PREFER_UNICODE; p++)
            if (ucs4 == prefer_unicode[p])
            {
                initial = 0;
                break;
            }
        /*
         * Check each encoding for the glyph, starting with the current one
         */
        for (offset = 0; offset < NUM_DECODE; offset++)
        {
            decode = (initial + offset) % NUM_DECODE;
            if (!face->charmap || face->charmap->encoding != fcFontDecoders[decode].encoding)
                if (FT_Select_Charmap (face, fcFontDecoders[decode].encoding) != 0)
                    continue;
            if (fcFontDecoders[decode].map)
            {
                charcode = FcFreeTypeUcs4ToPrivate (ucs4, fcFontDecoders[decode].map);
                if (charcode == ~0U)
                    continue;
            }
        }
    }
}

```

```

else
    charcode = ucs4;
glyphindex = FT_Get_Char_Index (face, (FT_ULong) charcode);
if (glyphindex)
    return glyphindex;
}
#endif HAVE_FT_HAS_PS_GLYPH_NAMES
/*
 * Check postscript name table if present
 */
if (FcFreeTypeUseNames (face))
{
const FcChar8 *name = FcUcs4ToGlyphName (ucs4);
if (name)
{
    glyphindex = FcFreeTypeGlyphNameIndex (face, name);
    if (glyphindex)
return glyphindex;
}
}
#endif
return 0;
}

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

    if (using_strike)
load_flags &= ~FT_LOAD_NO_SCALE;

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

    if (FT_Load_Glyph (face, glyph, load_flags))

```

```

return FcFalse;

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

*advance = slot->metrics.horiAdvance;

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

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

static FcCharSet *
FcFreeTypeCharSetAndSpacingForSize (FT_Face face, FcBlanks *blanks, int *spacing, FT_Int strike_index)
{
FcChar32 page, off, ucs4;
#ifdef CHECK
FcChar32 font_max = 0;
#endif
FcCharSet *fcs;
FcCharLeaf *leaf;

```

```

const FcCharMap *map;
int o;
int i;
FT_UInt glyph;
FT_Pos advance, advance_one = 0, advance_two = 0;
FcBool has_advance = FcFalse, fixed_advance = FcTrue, dual_advance = FcFalse;
FcBool using_strike = FcFalse;

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

#if HAVE_FT_SELECT_SIZE
if (strike_index >= 0) {
if (FT_Select_Size (face, strike_index) != FT_Err_Ok)
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. Theyre
* combining characters, and while their behaviour
* isnt 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));
#ifdef CHECK
    if (ucs4 > font_max)
        font_max = ucs4;
#endif
    }
    }
else
    {
        page = ~0;
        leaf = NULL;
        ucs4 = FT_Get_First_Char (face, &glyph);
        while (glyph != 0)
        {
if (FcFreeTypeCheckGlyph (face, ucs4, glyph, blanks, &advance, using_strike))
        {
            if (advance)
            {
if (!has_advance)
                {
                    has_advance = FcTrue;
                    advance_one = advance;
                }
            }
        }
    }
}

```

```

else if (!APPROXIMATELY_EQUAL (advance, advance_one))
{
    if (fixed_advance)
    {
        dual_advance = FcTrue;
        fixed_advance = FcFalse;
        advance_two = advance;
    }
    else if (!APPROXIMATELY_EQUAL (advance, advance_two))
        dual_advance = FcFalse;
}
}

if ((ucs4 >> 8) != page)
{
    page = (ucs4 >> 8);
    leaf = FcCharSetFindLeafCreate (fcs, ucs4);
    if (!leaf)
        goto bail1;
}
off = ucs4 & 0xff;
leaf->map[off >> 5] |= (1 << (off & 0x1f));
#ifdef CHECK
    if (ucs4 > font_max)
        font_max = ucs4;
#endif
}
ucs4 = FT_Get_Next_Char (face, ucs4, &glyph);
}
#ifdef CHECK
    for (ucs4 = 0; ucs4 < 0x10000; ucs4++)
    {
        FcBool    FT_Has, FC_Has;

        FT_Has = FT_Get_Char_Index (face, ucs4) != 0;
        FC_Has = FcCharSetHasChar (fcs, ucs4);
        if (FT_Has != FC_Has)
        {
            printf ("0x%08x FT says %d FC says %d\n", ucs4, FT_Has, FC_Has);
        }
    }
#endif
}
}
#ifdef 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
}
}
}
}
}
#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);
}
#endif

if (fixed_advance)
*spacing = FC_MONO;
else if (dual_advance && APPROXIMATELY_EQUAL (2 * FC_MIN (advance_one, advance_two), FC_MAX
(advance_one, advance_two)))
    *spacing = FC_DUAL;
else
*spacing = FC_PROPORTIONAL;
return fcs;
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))
    {
        FT_Int strike_index = 0;
        int i;

        /* Select the face closest to 16 pixels tall */
        for (i = 1; i < face->num_fixed_sizes; i++) {
            if (abs (face->available_sizes[i].height - 16) <
                abs (face->available_sizes[strike_index].height - 16))

```



```

    strike_index = i;
}
cs = FcFreeTypeCharSetAndSpacingForSize (face, blanks, spacing, strike_index);
}
else
cs = FcFreeTypeCharSetAndSpacingForSize (face, blanks, spacing, -1);
return cs;
}

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

    return FcFreeTypeCharSetAndSpacing (face, blanks, &spacing);
}

#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_UShort gsub_count=0, gpos_count=0;
    FT_ULong maxsize;
    FcChar8 *complex_ = NULL;
    int indx1 = 0, indx2 = 0;

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

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

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

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

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

    while ((indx1 < gsub_count) || (indx2 < gpos_count)) {
    if (indx1 == gsub_count) {
        addtag(complex_, gpostags[indx2]);
        indx2++;
    } else if ((indx2 == 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__
/*
 * Copyright 2000 Keith Packard
 * Copyright 2005 Patrick Lam
 *
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 * documentation for any purpose is hereby granted without fee, provided that
 * the above copyright notice appear in all copies and that both that
 * copyright notice and this permission notice appear in supporting
 * documentation, and that the name of the author(s) not be used in
 * advertising or publicity pertaining to distribution of the software without
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 * CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
 * DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
 * TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 * PERFORMANCE OF THIS SOFTWARE.
 */
#include "fcint.h"
#include "fcarch.h"
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <dirent.h>
#include <string.h>
#include <sys/types.h>
#include <assert.h>

```

```

#if defined(HAVE_MMAP) || defined(__CYGWIN__)
# include <unistd.h>
# include <sys/mman.h>
#endif

#ifndef O_BINARY
#define O_BINARY 0
#endif

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

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

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

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

    status = (intptr_t) fc_atomic_ptr_get (&static_status);

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

    if (status == MMAP_CHECK_FS)

```

```

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

}

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

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

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

    MD5Final (hash, &ctx);

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

    return cache_base;
}

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

    FcDirCacheBasename (dir, cache_base);

```

```

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

while ((cache_dir = FcStrListNext (list)))
{
if (sysroot)
    cache_hashed = FcStrBuildFilename (sysroot, cache_dir, cache_base, NULL);
else
    cache_hashed = FcStrBuildFilename (cache_dir, cache_base, NULL);
    if (!cache_hashed)
        break;
(void) unlink ((char *) cache_hashed);
FcStrFree (cache_hashed);
}
FcStrListDone (list);
/* return FcFalse if something went wrong */
if (cache_dir)
return FcFalse;
return FcTrue;
}

```

```

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

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

```

```

    }
    FcStrListDone (list);

    return ret;
}

#define FC_CACHE_MIN_MMAP 1024

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

typedef struct _FcCacheSkip FcCacheSkip;

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

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

#define FC_CACHE_MAX_LEVEL 16

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

static FcMutex *cache_lock;

static void
lock_cache (void)
{
    FcMutex *lock;
retry:
    lock = fc_atomic_ptr_get (&cache_lock);
    if (!lock) {
        lock = (FcMutex *) malloc (sizeof (FcMutex));

```

```

FcMutexInit (lock);
if (!fc_atomic_ptr_cmpexch (&cache_lock, NULL, lock)) {
    FcMutexFinish (lock);
    goto retry;
}

FcMutexLock (lock);
/* Initialize random state */
FcRandom ();
return;
}
FcMutexLock (lock);
}

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

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

/*
 * Generate a random level number, distributed
 * so that each level is 1/4 as likely as the one before
 *
 * Note that level numbers run 1 <= level <= MAX_LEVEL
 */
static int
random_level (void)
{
    /* tricky bit -- each bit is '1' 75% of the time */
    long int bits = FcRandom () | FcRandom ();
    int level = 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:
#ifdef HAVE_MMAP || defined(__CYGWIN__)
            munmap (cache, cache->size);
#endif
#ifdef _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);
#endif
#ifdef HAVE_POSIX_FADVISE
    posix_fadvise (fd, 0, fd_stat->st_size, POSIX_FADV_WILLNEED);
#endif
    if (cache == MAP_FAILED)
        cache = NULL;
#ifdef _WIN32
    {
        HANDLE hFileMap;

        cache = NULL;
        hFileMap = CreateFileMapping((HANDLE) _get_osfhandle(fd), NULL,
            PAGE_READONLY, 0, 0, NULL);
        if (hFileMap != NULL)
        {
            cache = MapViewOfFile (hFileMap, FILE_MAP_READ, 0, 0,
                fd_stat->st_size);
            CloseHandle (hFileMap);
        }
    }
#endif
}
if (!cache)
{
    cache = malloc (fd_stat->st_size);
    if (!cache)
        return NULL;

    if (read (fd, cache, fd_stat->st_size) != fd_stat->st_size)
    {
        free (cache);
        return NULL;
    }
    allocated = FcTrue;
}

```

```

    }
    if (cache->magic != FC_CACHE_MAGIC_MMAP ||
        cache->version < FC_CACHE_CONTENT_VERSION ||
        cache->size != (intptr_t) fd_stat->st_size ||
        !FcCacheTimeValid (cache, dir_stat) ||
        !FcCacheInsert (cache, fd_stat))
    {
    if (allocated)
        free (cache);
    else
    {
    #if defined(HAVE_MMAP) || defined(__CYGWIN__)
        munmap (cache, fd_stat->st_size);
    #elif defined(_WIN32)
        UnmapViewOfFile (cache);
    #endif
    }
    return NULL;
    }

    /* Mark allocated caches so they're freed rather than unmapped */
    if (allocated)
        cache->magic = FC_CACHE_MAGIC_ALLOC;

    return cache;
}

void
FcDirCacheReference (FcCache *cache, int nref)
{
    FcCacheSkip *skip = FcCacheFindByAddr (cache);

    if (skip)
        FcRefAdd (&skip->ref, nref);
}

void
FcDirCacheUnload (FcCache *cache)
{
    FcCacheObjectDereference (cache);
}

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

    if (!cache)

```

```

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

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

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

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

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

/*
 * Validate a cache file by reading the header and checking
 * the magic number and the size field
 */
static FcBool
FcDirCacheValidateHelper (int fd, struct stat *fd_stat, struct stat *dir_stat, void *closure FC_UNUSED)
{
    FcBool ret = FcTrue;
    FcCache c;

    if (read (fd, &c, sizeof (FcCache)) != sizeof (FcCache))
ret = FcFalse;
    else if (c.magic != FC_CACHE_MAGIC_MMAP)
ret = FcFalse;
}

```

```

    else if (c.version < FC_CACHE_CONTENT_VERSION)
ret = FcFalse;
    else if (fd_stat->st_size != c.size)
ret = FcFalse;
    else if (c.checksum != (int) dir_stat->st_mtime)
ret = FcFalse;
    return ret;
}

```

```

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

```

```

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

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

    return FcDirCacheValidConfig (dir, config);
}

```

```

/*
 * Build a cache structure from the given contents
 */
FcCache *
FcDirCacheBuild (FcFontSet *set, const FcChar8 *dir, struct stat *dir_stat, FcStrSet *dirs)
{
    FcSerialize *serialize = FcSerializeCreate ();
    FcCache *cache;
    int i;
    FcChar8 *dir_serialize;
    intptr_t *dirs_serialize;
    FcFontSet *set_serialize;

    if (!serialize)
return NULL;
    /*
     * Space for cache structure
     */
    FcSerializeReserve (serialize, sizeof (FcCache));
}

```

```

/*
 * Directory name
 */
if (!FcStrSerializeAlloc (serialize, dir))
goto bail1;
/*
 * Subdirs
 */
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", dir,
        access ((char *) dir, F_OK) == 0 ? "unwritable" : "non-existent");
goto bail0;
    }
    if (verbose || FcDebug () & FC_DBG_CACHE)
printf ("%s: cleaning cache directory\n", dir);
    d = opendir ((char *) dir);
    if (!d)
    {
perror ((char *) dir);
ret = FcFalse;
goto bail0;
    }
    while ((ent = readdir (d)))
    {
FcChar8 *file_name;
const FcChar8 *target_dir;

if (ent->d_name[0] == '.')
    continue;
/* skip cache files for different architectures and */
/* files which are not cache files at all */
if (strlen(ent->d_name) != 32 + strlen ("-" FC_ARCHITECTURE FC_CACHE_SUFFIX) ||
    strcmp(ent->d_name + 32, "-" FC_ARCHITECTURE FC_CACHE_SUFFIX))
    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] + 0xffff5bb1, 17);
    MD5STEP(F1, b, c, d, a, in[11] + 0x895cd7be, 22);
    MD5STEP(F1, a, b, c, d, in[12] + 0x6b901122, 7);
    MD5STEP(F1, d, a, b, c, in[13] + 0xfd987193, 12);
    MD5STEP(F1, c, d, a, b, in[14] + 0xa679438e, 17);
    MD5STEP(F1, b, c, d, a, in[15] + 0x49b40821, 22);

    MD5STEP(F2, a, b, c, d, in[1] + 0xf61e2562, 5);
    MD5STEP(F2, d, a, b, c, in[6] + 0xc040b340, 9);
    MD5STEP(F2, c, d, a, b, in[11] + 0x265e5a51, 14);
    MD5STEP(F2, b, c, d, a, in[0] + 0xe9b6c7aa, 20);
    MD5STEP(F2, a, b, c, d, in[5] + 0xd62f105d, 5);
    MD5STEP(F2, d, a, b, c, in[10] + 0x02441453, 9);
    MD5STEP(F2, c, d, a, b, in[15] + 0xd8a1e681, 14);
    MD5STEP(F2, b, c, d, a, in[4] + 0xe7d3fbc8, 20);
    MD5STEP(F2, a, b, c, d, in[9] + 0x21e1cde6, 5);
    MD5STEP(F2, d, a, b, c, in[14] + 0xc33707d6, 9);
    MD5STEP(F2, c, d, a, b, in[3] + 0xf4d50d87, 14);
    MD5STEP(F2, b, c, d, a, in[8] + 0x455a14ed, 20);

```



```
MD5STEP(F2, a, b, c, d, in[13] + 0xa9e3e905, 5);
MD5STEP(F2, d, a, b, c, in[2] + 0xfcefa3f8, 9);
MD5STEP(F2, c, d, a, b, in[7] + 0x676f02d9, 14);
MD5STEP(F2, b, c, d, a, in[12] + 0x8d2a4c8a, 20);
```

```
MD5STEP(F3, a, b, c, d, in[5] + 0xffffa3942, 4);
MD5STEP(F3, d, a, b, c, in[8] + 0x8771f681, 11);
MD5STEP(F3, c, d, a, b, in[11] + 0x6d9d6122, 16);
MD5STEP(F3, b, c, d, a, in[14] + 0xfde5380c, 23);
MD5STEP(F3, a, b, c, d, in[1] + 0xa4beea44, 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] + 0xebefbc70, 23);
MD5STEP(F3, a, b, c, d, in[13] + 0x289b7ec6, 4);
MD5STEP(F3, d, a, b, c, in[0] + 0xeea127fa, 11);
MD5STEP(F3, c, d, a, b, in[3] + 0xd4ef3085, 16);
MD5STEP(F3, b, c, d, a, in[6] + 0x04881d05, 23);
MD5STEP(F3, a, b, c, d, in[9] + 0xd9d4d039, 4);
MD5STEP(F3, d, a, b, c, in[12] + 0xe6db99e5, 11);
MD5STEP(F3, c, d, a, b, in[15] + 0x1fa27cf8, 16);
MD5STEP(F3, b, c, d, a, in[2] + 0xc4ac5665, 23);
```

```
MD5STEP(F4, a, b, c, d, in[0] + 0xf4292244, 6);
MD5STEP(F4, d, a, b, c, in[7] + 0x432aff97, 10);
MD5STEP(F4, c, d, a, b, in[14] + 0xab9423a7, 15);
MD5STEP(F4, b, c, d, a, in[5] + 0xfc93a039, 21);
MD5STEP(F4, a, b, c, d, in[12] + 0x655b59c3, 6);
MD5STEP(F4, d, a, b, c, in[3] + 0x8f0ccc92, 10);
MD5STEP(F4, c, d, a, b, in[10] + 0xffeff47d, 15);
MD5STEP(F4, b, c, d, a, in[1] + 0x85845dd1, 21);
MD5STEP(F4, a, b, c, d, in[8] + 0x6fa87e4f, 6);
MD5STEP(F4, d, a, b, c, in[15] + 0xfe2ce6e0, 10);
MD5STEP(F4, c, d, a, b, in[6] + 0xa3014314, 15);
MD5STEP(F4, b, c, d, a, in[13] + 0x4e0811a1, 21);
MD5STEP(F4, a, b, c, d, in[4] + 0xf7537e82, 6);
MD5STEP(F4, d, a, b, c, in[11] + 0xbd3af235, 10);
MD5STEP(F4, c, d, a, b, in[2] + 0x2ad7d2bb, 15);
MD5STEP(F4, b, c, d, a, in[9] + 0xeb86d391, 21);
```

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

```
FcBool
FcDirCacheCreateTagFile (const FcChar8 *cache_dir)
{
```

```

FcChar8 *cache_tag;
int fd;
FILE *fp;
FcAtomic *atomic;
static const FcChar8 cache_tag_contents[] =
"Signature: 8a477f597d28d172789f06886806bc55\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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```

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```
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```
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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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## 1.36 gdbm 1.8.3

**:bbae68f3e04db54626c88fa1080b546f**

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```

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to 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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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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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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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

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

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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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## 1.39 glib-2.0 2.38.2

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## 1.40 glib-networking 2.38.0

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## 1.41 gptfdisk 0.8.6

**:3edfdf84d3014e769514d9ba33023470**

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# 1.42 gssdp 0.13.2

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# 1.43 gst-fluendo-mpegdemux 0.10.69

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## 1.45 gst-plugins-base 0.10.30

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```
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+ * You should have received a copy of the GNU Library General Public
+ * License along with this library; if not, write to the
+ * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
+ * Boston, MA 02111-1307, USA.
+ */
+
```

## 1.46 gst-plugins-good 0.10.25

### :a3336ba0772a9b4a2ff1cb19071c20e9

## 1.46.1 Available under license :

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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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.

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

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

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

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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

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

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

root function must still compute square roots.)

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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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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.)

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```
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```

# 1.47 gst1.0-plugin-dlnasrc 1.0 :c652c2ceac

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# 1.48 gstreamer 1.4.5

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

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

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

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

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

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

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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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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

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

# 1.49 gstreamer 0.10.36 :2012-02-20 Tim-Philipp Müller

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

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

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## 1.51 gstreamer1.0-plugins-good 1.4.5

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

### Tim-Philipp Müller

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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.

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

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

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## 1.55 gupnp-av 0.8.0

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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## 1.60 ICU 51.2

### 1.60.1 Available under license :

```
## *-makefile*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
## Copyright (c) 1999-2009, International Business Machines Corporation and
```

```
## others. All Rights Reserved.
```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```

LIBCPPFLAGS =

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

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

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

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

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

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

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

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

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

```

## End FreeBSD-specific setup

# 1.61 iksemel 1.4

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Version 2.1, February 1999

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## 1.62 iproute2 3.12.0



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- 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.
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Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.

usage.txt Usage instructions for cjpeg, djpeg, jpegtran,  
rdjpgcom, and wrjpgcom.

\*.1 Unix-style man pages for programs (same info as usage.txt).

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.

structure.txt Overview of the JPEG library's internal structure.

filelist.txt Road map of IJG files.

coderrules.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.

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

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## REFERENCES

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

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

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

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

10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

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](http://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/jpegsr8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

## 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.

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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](http://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](mailto:jpeg-info@jpegclub.org).

/\* Portions of this code are based on the PBMPLUS library, which is:

\*\*

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## 1.67 json-c 0.12-20140410

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## 1.68 jsoncpp 0.6.0-rc2

**:22bcfd69bc3ee67473ee96535d5af581**

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## 1.69 kbd 2.0.1

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rJ

~~vvvvnn8||8`j

```
""""UUUUUD0`0`00`0`>><~<0`0<~<$ff$6f`0|nl1l0xx000l1l1l1l1l0|x00f8l8vv00`0`~`0`00`f<<f000000`000`||0p00  
00x8`x8x<l8x`x00xxxx|p00000000`0`0`00`x00|x0x|ff|ff<ff<lfff|bhxbhbxh`<ff>x00000xxflxlf`b`bf8l18ff)`xxff|lfx  
px0000xxx0l8lx00x0fx`~`x`0xx8l00x|v`|ffxx|vxx8l`~`v`|lvff0p000xx`flxlp00000xxff`v|vf`|x0|004vx0l18l|0d0000  
0000000000vx0xl1l1l1|`l1lo`|l1l1l1l1l1l1l1`o|l1l1l1o`o|l1l1l1l1l1l1l1l1l1l1l1l1l1l1l1l1l1l1l1000xx00xx08ld`8d`d8x000xx`8x8l08l18l8x|  
x|<l|>~3ff3||pp0000p0`p0p|Of{;x0d`~8l18lf3f~`~`x00x0`f<`0x0xxxvxxxxx>x<ff<x`0bxbxb8l8lx|v~`~`v~`~`xxp`0xxxxxx  
000xxx000xx000xlfflv`0xx0xxxxvxxxxl88l>l1`0x0xxx0x0x`|f|`|0x|v0x|v8lx|vxx|v1lx|v8l8x|v~`~`~`~`xxp`0xxxxxx  
`0p00x0p00x pp00xp00xxp|xv`0xx0xx0xxxvxxxx0000)`0v0vxxv0)`xllx`
```

rJ

```
0`0`00`|p~`|ffff8fb`~`~`|`8|<<x|llnm`~`|ffffllxllf`~`~`~`~`~`~`~`v|p0`||<b`~`~`b<~`lvfff0bb`~`|`8|8<ff<<lnm~`~`~`~`lvffllxlf`~`~`  
<<<fff$ll1l1l1||Of8l18vv00000000f<<f~00`||8x~|0`|<|<l|8`|0000||~x00`0`~`00`||8lfff|ff<ff<lfffflfbhxbhfffbhxbh`<ff
```







>2 byte 1 512 characters, no index  
>2 byte 2 256 characters, Unicode index  
>2 byte 3 512 characters, Unicode index  
>2 byte 4 256 characters, Unicode level 2 index  
>2 byte 5 512 characters, Unicode level 2 index  
>3 byte x 8x%d

#

# PC Screen (console) Fonts - psf2 header

#

0 lelong 0x864ab572 psf2 screen font data

>12 lelong&1 1 with Unicode index

>16 lelong x \b, %d glyphs

>28 lelong x \b, %dx

>24 lelong x \b%d

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setleds.c setmetamode.c setvesablank.c showconsolefont.c

spawn\_console.c spawn\_login.c

chvt.1 deallovcvt.1 kbd\_mode.1 setleds.1 setmetamode.1

getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8

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## 1.70 kmod 16 :36c4bb928a

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**:8f50db7fa0180dce98b7a2f914d45b21**

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## 1.83 libgcrypto\_GPLv2 1.5.3

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## 1.84 libgpg-error 1.10

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.93 libsoup-2.4 2.45.3

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## 1.94 libupnp 1.6.18

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## 1.95 libusb 1.0.9

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## 1.96 libusb-compat 0.1.5

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## 1.97 libvpx 1.3.0

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single nxt200x frontend driver.

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That's all there is to it!

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

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.108 mongoose 2.6

**:a171b2526f8bd036c32215f7eb3a44e3**

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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 <QJsonValue>  
#include <QQmlParserStatus>  
#include <QUrl>
```

```

#include <QDBusPendingCallWatcher>
#include <QDBusMessage>
#include <QPair>

#include "declarativedbus.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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## 1.114 netbase 5.2

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Motorolla 68020 20mhz, NetBSD

SSLey 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.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	2176.00	5994.67	8079.73	8845.18	9077.01
mdc2	5730.67	6122.67	6167.66	6176.51	6174.87
md5	29.10k	127.31k	209.66k	250.50k	263.99k
hmac(md5)	12.33k	73.02k	160.17k	228.04k	261.15k
sha1	11.27k	49.37k	84.31k	102.40k	109.23k
rmd160	11.69k	48.62k	78.76k	93.15k	98.41k
rc4	117.96k	148.94k	152.57k	153.09k	152.92k
des cbc	27.13k	30.06k	30.38k	30.38k	30.53k
des ede3	10.51k	10.94k	11.01k	11.01k	11.01k
idea cbc	26.74k	29.23k	29.45k	29.60k	29.74k
rc2 cbc	34.27k	39.39k	40.03k	40.07k	40.16k
rc5-32/12 cbc	64.31k	83.18k	85.70k	86.70k	87.09k
blowfish cbc	48.86k	59.18k	60.07k	60.42k	60.78k
cast cbc	42.67k	50.01k	50.86k	51.20k	51.37k

sign verify sign/s verify/s

rsa 512 bits	0.7738s	0.0774s	1.3	12.9
rsa 1024 bits	4.3967s	0.2615s	0.2	3.8
rsa 2048 bits	29.5200s	0.9664s	0.0	1.0

sign verify sign/s verify/s

dsa 512 bits	0.7862s	0.9709s	1.3	1.0
dsa 1024 bits	2.5375s	3.1625s	0.4	0.3
dsa 2048 bits	9.2150s	11.8200s	0.1	0.1

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.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	130.99k	367.68k	499.09k	547.04k	566.50k
md5	1924.98k	8293.50k	13464.41k	16010.39k	16820.68k
sha	1250.75k	5330.43k	8636.88k	10227.36k	10779.14k
sha1	1071.55k	4572.50k	7459.98k	8791.96k	9341.61k
rc4	10724.22k	14546.25k	15240.18k	15259.50k	15265.63k
des cbc	3309.11k	3883.01k	3968.25k	3971.86k	3979.14k
des ede3	1442.98k	1548.33k	1562.48k	1562.00k	1563.33k
idea cbc	2195.69k	2506.39k	2529.59k	2545.66k	2546.54k
rc2 cbc	806.00k	833.52k	837.58k	838.52k	836.69k
blowfish cbc	4687.34k	5949.97k	6182.43k	6248.11k	6226.09k
rsa 512 bits	0.010s				
rsa 1024 bits	0.045s				
rsa 2048 bits	0.260s				
rsa 4096 bits	1.690s				

```
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## 1.116 OpenSSL 1.0.2g :1

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## 1.119 opus 1.0.2

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**:52847c794dd9d3476d389c0cb82710ad**

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## 1.125 ppp 2.4.6

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## 1.126 procps 3.2.8

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```
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```

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```
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```
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```

```
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## 1.127 procps/LGPLv2 3.2.8

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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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## 1.128 psmisc 22.21

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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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes



2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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## 1.130 python-argparse 1.2.1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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-----

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

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

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

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

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

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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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Version 3, 29 June 2007

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Version 1.1

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## 1.144 quazip 0.7.1

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## 1.146 requests 2.5.1 :(2014-12-23)

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## 1.148 rfcill 0.4

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## 1.149 shadow 4.1.4.3

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## 1.153 stat 3.3

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## 1.154 stbgcc-eglibc 4.8.4-1.2

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

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

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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## 1.156 sysfsutils 2.1.0

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## 1.157 syslog-ng 3.6.4

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```
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```
# update-rc.d Update the links in /etc/rc[0-9S].d/  
#  
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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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\*

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\*/

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Version 2.1, February 1999

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/\*

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\*

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.172 xz 5.1.3alpha

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## 1.174 zlib 1.2.8

**:275786e451dc0f98d321ff4c9ad8f79c**

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

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\*/

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