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Upstream Authors:

Eric Busboom <eric@softwarestudio.org>
Andrea Campi <a.campi@inet.it>
Art Cancro <ajc@uncensored.citadel.org>
Wilfried Goesgens <w.goesgens@outgesourced.org>
John Gray <gray@agora-net.com>
Omar Kilani <omar@tinysofa.org>
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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.

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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.5 u-boot v2013.04 Idefix

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1.6 i2c-tools 3.0

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1.7 v4l-utils 1.18.0

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General 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

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

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

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

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(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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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.

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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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Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:

> Hi Bill,
>
> AFAIK you've been out of the v4l loop, so I assume you
> don't know me, this let me start with a shot self introduction:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>

> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and then use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps to the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> And now (finally) my question to you, lately we (the v4l devs) have
> been working on removing the last bits of v4l1 from the kernel.
> We would like to also remove the v4l1 ioctl compatibility (*), but
> currently libv4l1 depends on the v4l1 ioctl compatibility for some
> ioctls.
>
> Fixing this comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. Thus my question is would it be ok to use your v4l1 compat
> code under the LGPL inside libv4l1 ?
>
> Thanks & Regards,
>
> Hans
>
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>

#####

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with ESMTP id JBJ9UuFZvkuv for <hdegoede@redhat.com>;
Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from int-mx08.intmail.prod.int.phx2.redhat.com (int-mx08.intmail.prod.int.phx2.redhat.com [10.5.11.21])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id 9E8119C608
for <hdegoede@mail.corp.redhat.com>; Wed, 19 May 2010 04:25:49 -0400 (EDT)
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by int-mx08.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8PjFh018889
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for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:47 -0400
Message-ID: <4BF3A088.4050101@redhat.com>
Date: Wed, 19 May 2010 10:25:44 +0200
From: Gerd Hoffmann <kraxel@redhat.com>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100430 Fedora/3.0.4-2.fc12
Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hi,

> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,
Gerd

#####

Return-Path: hverkuil@xs4all.nl
Received: from zmta02.collab.prod.int.phx2.redhat.com (LHLO

zmata02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:28:02 -0400 (EDT)
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by zmata02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id CFAC29C608;
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Wed, 19 May 2010 04:27:51 -0400
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Wed, 19 May 2010 10:27:45 +0200 (CEST)
(envelope-from hverkuil@xs4all.nl)
Received: from 62.70.2.252
(SquirrelMail authenticated user hverkuil)
by webmail.xs4all.nl with HTTP;
Wed, 19 May 2010 10:27:50 +0200
Message-ID: <3968c0dc456676eb0b1652936d795482.squirrel@webmail.xs4all.nl>
In-Reply-To: <4BF3A064.7080602@redhat.com>
References: <4BF3A064.7080602@redhat.com>
Date: Wed, 19 May 2010 10:27:50 +0200
Subject: Re: Re-licensing v411-compat.c code which you wrote
From: "Hans Verkuil" <hverkuil@xs4all.nl>
To: "Hans de Goede" <hdegoede@redhat.com>
Cc: "Gerd Hoffmann" <kraxel@redhat.com>,
"Mauro Carvalho Chehab" <mchehab@redhat.com>,
"Trent Piepho" <xyzy@speakeasy.org>,
"Huzaifa Sidhpurwala" <huzaifas@redhat.com>
User-Agent: SquirrelMail/1.4.18
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02 (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14

> Hi All,

>

> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil

>
> Thanks & Regards,
>
> Hans
>
>
> The long story:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.

>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
> compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
>

--
Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

#####

Return-Path: mchehab@redhat.com
Received: from zmta01.collab.prod.int.phx2.redhat.com (LHLO
zmta01.collab.prod.int.phx2.redhat.com) (10.5.5.31) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 10:25:02 -0400 (EDT)

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Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@kernel.org>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Gerd Hoffmann <kraxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
Trent Piepho <xyzyzy@speakeasy.org>,
Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: Re-licensing v411-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hans de Goede wrote:

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v411 ioctl compat code living in v411-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv411 become independent of the kernel v411 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v411 cleanup effort,
> read below for the long story.
>
> Making libv411 independent of the v411-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv411. This will likely involve
> some direct copying and libv411 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v411-compat code to do this.

- >
- > My question to you is would it be ok to use your v411 compat
- > contributions under the LGPL inside libv411 ?

LGPL for v411-compat code is fine for me.

Cheers,
Mauro

#####

1.8 jansson 2.7

1.8.1 Available under license :

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1.9 libsemanage 2.9

1.9.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

b) Give prominent notice with the combined library of the fact

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1.11 boost 1.73.0

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Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
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Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaue (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunsteve (RWGrosse-Kunsteve@lbl.gov)
Ralf W. Grosse-Kunsteve (RWGrosse-Kunsteve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)

Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
Trustees of Indiana University ()
University of Notre Dame ()
Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

////

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

```
<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>
  Copyright Test
</h3>
<p class="copyright">
  1963, 1964, 1965 Jane Doe
</p>
<p class="copyright">
```

```
    2018 Joe Blow, John Coe
</p>
<p class="copyright">
    1977, 1985 Someone else
</p>
</body>
</html>
<!-- Copyright 2018 Paul Fultz II
    Distributed under the Boost Software License, Version 1.0.
    (http://www.boost.org/LICENSE\_1\_0.txt)
-->
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
```


<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
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1.13 strace 4.20

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1.14 webob 1.8.3

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1.15 react-modal 3.11.2

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1.16 complex 2.0.11

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1.17 hidapi 0.8.0 rc1

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1.27 pcre 10.33

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1.29 unbound 1.9.4

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1.30 v4l-utils 1.18.0

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

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Return-Path: bill@thedirks.org

Received: from zmta01.collab.prod.int.phx2.redhat.com (LHLO zmta01.collab.prod.int.phx2.redhat.com) (10.5.5.31) by mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 02:43:28 -0400 (EDT)

Received: from localhost (localhost.localdomain [127.0.0.1]) by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id B6AB39081C; Wed, 19 May 2010 02:43:28 -0400 (EDT)

Received: from zmta01.collab.prod.int.phx2.redhat.com ([127.0.0.1]) by localhost (zmta01.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024) with ESMTP id ieqQbA5XErco; Wed, 19 May 2010 02:43:28 -0400 (EDT)

Received: from int-mx04.intmail.prod.int.phx2.redhat.com (int-mx04.intmail.prod.int.phx2.redhat.com [10.5.11.17]) by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id A451890805; Wed, 19 May 2010 02:43:28 -0400 (EDT)

Received: from mx1.redhat.com (ext-mx02.extmail.prod.ext.phx2.redhat.com [10.5.110.6]) by int-mx04.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J6hSHT030087; Wed, 19 May 2010 02:43:28 -0400

Received: from gs8.inmotionhosting.com (gs8b.inmotionhosting.com [74.124.194.50]) by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J6hH34025980;

Wed, 19 May 2010 02:43:17 -0400

Received: from 75-54-226-58.lightspeed.frmtca.sbcglobal.net ([75.54.226.58] helo=[192.168.1.67])
by gs8.inmotionhosting.com with esmtpsa (TLSv1:AES256-SHA:256)
(Exim 4.69)

(envelope-from <bill@thedirks.org>)

id 1OEd8K-0004wo-An; Tue, 18 May 2010 23:52:00 -0700

Message-ID: <4BF38878.9030208@thedirks.org>

Date: Tue, 18 May 2010 23:43:04 -0700

From: Bill Dirks <bill@thedirks.org>

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.9) Gecko/20100317 Thunderbird/3.0.4

MIME-Version: 1.0

To: Hans de Goede <hdegoede@redhat.com>

CC: Huzaiifa Sidhpurwala <huzaiifas@redhat.com>

Subject: Re: License question about v4l1-compat.c

References: <4BF2445B.2080203@redhat.com>

In-Reply-To: <4BF2445B.2080203@redhat.com>

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit

X-AntiAbuse: This header was added to track abuse, please include it with any abuse report

X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com

X-AntiAbuse: Original Domain - redhat.com

X-AntiAbuse: Originator/Caller UID/GID - [47 12] / [47 12]

X-AntiAbuse: Sender Address Domain - thedirks.org

X-Source:

X-Source-Args:

X-Source-Dir:

X-RedHat-Spam-Score: 0 ()

X-Scanned-By: MIMEDefang 2.67 on 10.5.11.17

X-Scanned-By: MIMEDefang 2.67 on 10.5.110.6

Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your
LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:

> Hi Bill,

>

> AFAIK you've been out of the v4l loop, so I assume you

> don't know me, this let me start with a shot self introduction:

>

> I'm a Linux enthusiast / developer. Amongst other things I've

> ported over many webcam drivers from v4l1 to v4l2 and I'm the

> author and maintainer of libv4l.

>

> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.

>

> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.

>

> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.

>

> But this did not help v4l1 apps, so I also wrote libv4l1 for those.

>

> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and then use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:

> 1) It makes porting of apps to the library trivial

> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).

>

> And now (finally) my question to you, lately we (the v4l devs) have
> been working on removing the last bits of v4l1 from the kernel.
> We would like to also remove the v4l1 ioctl compatibility (*), but
> currently libv4l1 depends on the v4l1 ioctl compatibility for some
> ioctls.

>

> Fixing this comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. Thus my question is would it be ok to use your v4l1 compat
> code under the LGPL inside libv4l1 ?

>

> Thanks & Regards,

>

> Hans

>

>

> (*) As in practice v4l1 apps need libv4l1 anyways both for format

> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>

#####

Return-Path: kraxel@redhat.com
Received: from zmta02.collab.prod.int.phx2.redhat.com (LHLO
zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from localhost (localhost.localdomain [127.0.0.1])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id BA56C9C63A
for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from zmta02.collab.prod.int.phx2.redhat.com ([127.0.0.1])
by localhost (zmta02.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024)
with ESMTP id JBJ9UuFZvkuv for <hdegoede@redhat.com>;
Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from int-mx08.intmail.prod.int.phx2.redhat.com (int-mx08.intmail.prod.int.phx2.redhat.com [10.5.11.21])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id 9E8119C608
for <hdegoede@mail.corp.redhat.com>; Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from zweiblum.home.kraxel.org (vpn1-7-147.ams2.redhat.com [10.36.7.147])
by int-mx08.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8PjFh018889
(version=TLSv1/SSLv3 cipher=DHE-RSA-AES256-SHA bits=256 verify=NO)
for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:47 -0400
Message-ID: <4BF3A088.4050101@redhat.com>
Date: Wed, 19 May 2010 10:25:44 +0200
From: Gerd Hoffmann <kraxel@redhat.com>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100430 Fedora/3.0.4-2.fc12
Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hi,

> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,
Gerd

#####

Return-Path: hverkuil@xs4all.nl

Received: from zmta02.collab.prod.int.phx2.redhat.com (LHLO
zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:28:02 -0400 (EDT)

Received: from localhost (localhost.localdomain [127.0.0.1])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id E3BD49C63A;
Wed, 19 May 2010 04:28:02 -0400 (EDT)

Received: from zmta02.collab.prod.int.phx2.redhat.com ([127.0.0.1])
by localhost (zmta02.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024)
with ESMTP id pjn9-H+iB0WI; Wed, 19 May 2010 04:28:02 -0400 (EDT)

Received: from int-mx03.intmail.prod.int.phx2.redhat.com (int-mx03.intmail.prod.int.phx2.redhat.com [10.5.11.16])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id CFAC29C608;
Wed, 19 May 2010 04:28:02 -0400 (EDT)

Received: from mx1.redhat.com (ext-mx10.extmail.prod.ext.phx2.redhat.com [10.5.110.14])
by int-mx03.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8S2bj019331;
Wed, 19 May 2010 04:28:02 -0400

Received: from smtp-vbr8.xs4all.nl (smtp-vbr8.xs4all.nl [194.109.24.28])
by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8Rp9r025653;
Wed, 19 May 2010 04:27:51 -0400

Received: from webmail.xs4all.nl (dovemail13.xs4all.nl [194.109.26.15])
by smtp-vbr8.xs4all.nl (8.13.8/8.13.8) with ESMTP id o4J8RiZq008091;
Wed, 19 May 2010 10:27:45 +0200 (CEST)

(envelope-from hverkuil@xs4all.nl)

Received: from 62.70.2.252

(SquirrelMail authenticated user hverkuil)

by webmail.xs4all.nl with HTTP;

Wed, 19 May 2010 10:27:50 +0200

Message-ID: <3968c0dc456676eb0b1652936d795482.squirrel@webmail.xs4all.nl>

In-Reply-To: <4BF3A064.7080602@redhat.com>

References: <4BF3A064.7080602@redhat.com>

Date: Wed, 19 May 2010 10:27:50 +0200

Subject: Re: Re-licensing v411-compatible code which you wrote

From: "Hans Verkuil" <hverkuil@xs4all.nl>

To: "Hans de Goede" <hdegoede@redhat.com>

Cc: "Gerd Hoffmann" <kraxel@redhat.com>,

"Mauro Carvalho Chehab" <mchehab@redhat.com>,

"Trent Piepho" <xyzy@speakeasy.org>,

"Huzaifa Sidhpurwala" <huzaifas@redhat.com>

User-Agent: SquirrelMail/1.4.18

MIME-Version: 1.0

Content-Type: text/plain; charset=iso-8859-1

Content-Transfer-Encoding: 8bit

X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02 (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil

>
> Thanks & Regards,
>
> Hans
>
>
> The long story:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.

>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
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> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
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> in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
> compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
>

--

Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

#####

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Received: from zmta01.collab.prod.int.phx2.redhat.com (LHLO
zmta01.collab.prod.int.phx2.redhat.com) (10.5.5.31) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 10:25:02 -0400 (EDT)
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by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id 6BC5E90C13;
Wed, 19 May 2010 10:25:02 -0400 (EDT)
Received: from zmta01.collab.prod.int.phx2.redhat.com ([127.0.0.1])
by localhost (zmta01.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024)
with ESMTP id 8lqJbX3fk3W4; Wed, 19 May 2010 10:25:02 -0400 (EDT)
Received: from int-mx08.intmail.prod.int.phx2.redhat.com (int-mx08.intmail.prod.int.phx2.redhat.com [10.5.11.21])
by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id 5887890BAD;
Wed, 19 May 2010 10:25:02 -0400 (EDT)
Received: from [10.11.10.12] (vpn-10-12.rdu.redhat.com [10.11.10.12])
by int-mx08.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4JEOv5p010028
(version=TLSv1/SSLv3 cipher=DHE-RSA-AES256-SHA bits=256 verify=NO);
Wed, 19 May 2010 10:25:00 -0400
Message-ID: <4BF3F4B9.3060803@redhat.com>
Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@kernel.org>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Gerd Hoffmann <kraxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
Trent Piepho <xyzzzy@speakeasy.org>,
Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hans de Goede wrote:

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v4l1 cleanup effort,

> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

#####

1.31 fff cisco.0

1.31.1 Available under license :

/*

LICENSE

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*/

1.32 libcap 2.27

1.32.1 Available under license :

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1.33 dragula 3.7.2

1.33.1 Available under license :

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1.34 python-idna 2.9

1.34.1 Available under license :

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

```

"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = { }
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',

```

```

'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```
setup(**arguments)
```

```
if __name__ == '__main__':
    main()
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1072959026_1595327422.04/0/idna-2-9-tar-gz/idna-2.9/setup.py

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* /opt/ws_local/PERMITS_SQL/1072959026_1595327422.04/0/idna-2-9-tar-gz/idna-2.9/idna.egg-info/PKG-INFO

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1.36 jsxapi 5.0.3

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1.38 cJose 0.6.1

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Upstream-Name: cjose

Source: <https://github.com/cisco/cjose>

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

```

```

</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.44 vlan 1.9

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1.45 libsepol 3.0

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1.46 libxml 2.9.10

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1.47 jsxapi 5.0.3

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1.48 crda 3.18

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1.49 inotify-tools 3.20.2.2

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1.52 utf8proc 2.2.0

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1.53 immer 6.0.9

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1.54 react 16.13.1

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1.55 libhangul 0.1.0

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#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
```

```
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftandom/ftandom.c
#
# EOF
```

1.59 react-select 3.1.0

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1.60 procps 3.3.15

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1.62 glibc 2.29

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```

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```
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```

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1.63 libunwind v1.4-stable-3

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1.64 zlib 1.2.5

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

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1.65 imx-gpu-g2d 6.2.4.p4.0-aarch64

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Last modified: Jan 5, 2004<br>
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<A HREF="http://www.nlanr.net">NLANR</a> ||
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<A HREF="http://dast.nlanr.net">applications support</a> ||
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<A HREF="http://ncne.nlanr.net">engineering support</a> ||
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<A HREF="http://moat.nlanr.net">measurement and operations</a>
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</CENTER>
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</BODY>
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</HTML>
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Iperf performance test
Mark Gates
Ajay Tirumala
Jim Ferguson
Jon Dugan
Feng Qin
Kevin Gibbs
John Estabrook
National Laboratory for Applied Network Research
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
<http://www.ncsa.uiuc.edu>

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1.68 libconfig 1.7.2

1.68.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>
Upstream-Name: ls-config
Source: <https://github.com/lucas-net-pl/ls-config>

Files: *

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```
@c \input texinfo.tex @c -*-texinfo-*-  
@c  
@c %**start of header
```

```
@c All text is ignored before the setfilename.  
@setfilename LGPL.info
```

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```

```
@sp 1
```

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@page

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@t{

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}  
@end format
```

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```
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@t{  
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice  
}  
@end format
```

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```
@c @bye  
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```
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1.73 libcgroup 0.41

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1.77 ethtool 5.6

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1.80 systemd 245-1

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

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

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

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

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

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

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

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

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

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.83 lodash 4.17.15

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1.84 inotify-tools 3.20.2.2

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1.85 base64-arraybuffer 0.2.0

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1.87 linux-asterix-netra

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Suman Anna
Sripal Bagadia
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Phil Carmody
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Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
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- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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

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

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

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2, June 1991

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

Preamble

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

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

Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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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.

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

That's all there is to it!

```
#ifndef __LICENSE_H
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

```
/* 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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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*
*/

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

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1.92 fdk-aac v2.0.1

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Fraunhofer Institute for Integrated Circuits IIS

Attention: Audio and Multimedia Departments - FDK AAC LL

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1.93 ti-opengl-asterix 4_06_00_01

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1.94 less 551

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1.100 systemd 242-7

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1.102 netcat 0.7.1

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```

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.107 linuxptp 2.0

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1.108 json-c 0.12.1-4

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1.109 python-dbussy v1.2.1

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1.112 util-linux 2.26.2

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Initialize empty image

`f1c9645dbc14efddc7d8a322685f26eb` `bsd.img`

Create new DOS partition table

`57e721e38d1266c2df055067c18f2cf9` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

`ada64ace122978d00d1d1c0e5ee45d26` `bsd.img`

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

```
0 unused      5 4.1BSD      9 4.4LFS      d boot
1 swap        6 Eighth Edition a unknown    e ADOS
2 Version 6   7 4.2BSD      b HPFS       f HFS
3 Version 7   8 MS-DOS     c ISO-9660   10 AdvFS
4 System V
```

Command (m for help):

```
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Version 2, June 1991
```

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1.113 psmisc 23.3

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1.114 alsa-utils 1.2.2

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1.115 libdrm 2.4.91-cisco

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1.116 react-dom 16.13.1

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1.117 iso-codes 3.79

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1.118 evmctl 1.2

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

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1.121 sbc 1.4

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Version 2.1, February 1999

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1.122 libogg 1.3.2

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1.123 pythonurllib 1.25.9

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <<https://github.com/georgemarshall>>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>
- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>

- * Allowed to skip SSL hostname verification

- * Cory Benfield <<https://lukasa.co.uk/about/>>
 - * Stream method for Response objects.
 - * Return native strings in header values.
 - * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
 - * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 - * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 - * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
 - * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
 - * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 - * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
 - * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
 - * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<https://dbrgn.ch/>>
 - * Disabled TLS compression by default on Python 3.2+
 - * Disabled TLS compression in pyopenssl contrib module
 - * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 - * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
 - * Use the platform-specific CA certificate locations

- * Josh Schneier <<https://github.com/jschneier>>
 - * HTTPHeaderDict and associated tests and docs
 - * Bugfixes, docs, test coverage

- * Tahia Khan <<http://tahia.tk/>>
 - * Added Timeout examples in docs

- * Arthur Grunseid <<https://grunseid.com>>
- * source_address support and tests (with <https://github.com/bui>)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
- * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.

- * tlynn <<https://github.com/tlynn>>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss <<https://github.com/talos>>
- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <<https://github.com/Disassem>>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <http://dafoster.net/>
- * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.

- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
- * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>

- * Improve contribution guide
- * Add `HTTPResponse.geturl()` method to provide `urllib2.urlopen().geturl()` behavior

- * Bruce Merry <<https://www.brucemerry.org.za>>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <<https://github.com/hugovk>>
- * Drop support for EOL Python 2.6

- * Tim Bell <<https://github.com/timb07>>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <<https://github.com/jbramleycl>>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- * Remove Authorization header regardless of case when redirecting to cross-site

- * James Meickle <<https://permadeath.com/>>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside `HTTPConnectionPool._make_request()`, also for `BaseExceptions`.

- * Jorge Lopez Silva <<https://github.com/jalopezsilva>>
- * Added support for forwarding requests through HTTPS proxies.

- * Benno Rice <benno@jeamland.net>
- * Allow `cadata` parameter to be passed to underlying `SSLContext.load_verify_locations()`.

- * Keiichi Kobayashi <abok.1k@gmail.com>
- * Rename `VerifiedHTTPSConnection` to `HTTPSConnection`

- * Himanshu Garg <garg_himanshu@outlook.com>
- * DOC & LICENSE Update

- * Hod Bin Noon <bin.noon.hod@gmail.com>
- * Test improvements

- * Chris Olufson <tycarac@gmail.com>
- * Fix for connection not being released on HTTP redirect and response not preloaded

- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.124 d3-format 1.4.4

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1.125 axios 0.19.2

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1.126 @babel/plugin-proposal-class-properties 7.10.1

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1.128 module-init-tools 3.15

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1.129 eigen3-devel 3.3.7

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1.130 fuse 3.1.0

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1.132 eigen 3.3.7

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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

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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

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

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

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

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

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

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

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

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

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

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

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

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```
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```

```
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/*
```

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1.133 keyutils 1.6.1

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1.135 vx-curve 0.0.197

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1.136 zlib 1.2.3

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

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1.137 grpc 1.21.0-8

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
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Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>

Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean McAfee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that

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

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Version 3, 29 June 2007

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1.141 cookie 0.4.1

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1.142 @babel/core 7.10.2

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1.143 spawn-fcgi 1.6.3

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1.144 react-numeric-input 2.2.3

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1.145 python-certifi 2020.4.5.1

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.146 mtr 0.87

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1.147 jansson 2.7

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1.148 wpa-supPLICANT 2.9

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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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1.150 libxml 2.9.10

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1.151 jquery 3.5.1

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1.152 linux-omap 3.4.113 cisco

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

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

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

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

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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
Antonio Luna
Hari Nagalla
Nishanth Menon
Ameya Palande

Vijay Pasam
Gilbert Pitney
Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
like to be mentioned)

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

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

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

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

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

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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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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)  
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
*  
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
* http://www.hypermall.com/  
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY  
* interrupts us (except possibly for removal/insertion of the cable?)  
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
```

- * and spelling mistakes.
- * 10/5/97 - added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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*

* M. Welsh, 6 July 1996

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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Received: from localhost (localhost.localdomain [127.0.0.1]) by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id B6AB39081C; Wed, 19 May 2010 02:43:28 -0400 (EDT)

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Received: from int-mx04.intmail.prod.int.phx2.redhat.com (int-mx04.intmail.prod.int.phx2.redhat.com [10.5.11.17]) by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id A451890805; Wed, 19 May 2010 02:43:28 -0400 (EDT)

Received: from mx1.redhat.com (ext-mx02.extmail.prod.ext.phx2.redhat.com [10.5.110.6]) by int-mx04.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J6hSHT030087; Wed, 19 May 2010 02:43:28 -0400

Received: from gs8.inmotionhosting.com (gs8b.inmotionhosting.com [74.124.194.50]) by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J6hH34025980; Wed, 19 May 2010 02:43:17 -0400

Received: from 75-54-226-58.light-speed.fmtca.sbcglobal.net ([75.54.226.58] helo=[192.168.1.67]) by gs8.inmotionhosting.com with esmtpsa (TLSv1:AES256-SHA:256) (Exim 4.69)

(envelope-from <bill@thedirks.org>)

id 1OEd8K-0004wo-An; Tue, 18 May 2010 23:52:00 -0700

Message-ID: <4BF38878.9030208@thedirks.org>

Date: Tue, 18 May 2010 23:43:04 -0700

From: Bill Dirks <bill@thedirks.org>

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.9) Gecko/20100317 Thunderbird/3.0.4

MIME-Version: 1.0

To: Hans de Goede <hdegoede@redhat.com>

CC: Huzaifa Sidhpurwala <huzaifas@redhat.com>

Subject: Re: License question about v411-compat.c

References: <4BF2445B.2080203@redhat.com>

In-Reply-To: <4BF2445B.2080203@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-AntiAbuse: This header was added to track abuse, please include it with any abuse report
X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com
X-AntiAbuse: Original Domain - redhat.com
X-AntiAbuse: Originator/Caller UID/GID - [47 12] / [47 12]
X-AntiAbuse: Sender Address Domain - thedirks.org
X-Source:
X-Source-Args:
X-Source-Dir:
X-RedHat-Spam-Score: 0 ()
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.17
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.6

Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:

> Hi Bill,
>
> AFAIK you've been out of the v4l loop, so I assume you
> don't know me, this let me start with a shot self introduction:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library

> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and then use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps to the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> And now (finally) my question to you, lately we (the v4l devs) have
> been working on removing the last bits of v4l1 from the kernel.
> We would like to also remove the v4l1 ioctl compatibility (*), but
> currently libv4l1 depends on the v4l1 ioctl compatibility for some
> ioctls.
>
> Fixing this comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. Thus my question is would it be ok to use your v4l1 compat
> code under the LGPL inside libv4l1 ?
>
> Thanks & Regards,
>
> Hans
>
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>

#####

Return-Path: krxel@redhat.com
Received: from zmta02.collab.prod.int.phx2.redhat.com (LHLO
zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from localhost (localhost.localdomain [127.0.0.1])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id BA56C9C63A

for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:49 -0400 (EDT)
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by localhost (zmta02.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024)
with ESMTP id JBJ9UuFZvkuv for <hdegoede@redhat.com>;
Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from int-mx08.intmail.prod.int.phx2.redhat.com (int-mx08.intmail.prod.int.phx2.redhat.com [10.5.11.21])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id 9E8119C608
for <hdegoede@mail.corp.redhat.com>; Wed, 19 May 2010 04:25:49 -0400 (EDT)
Received: from zweiblum.home.kraxel.org (vpn1-7-147.ams2.redhat.com [10.36.7.147])
by int-mx08.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8PjFh018889
(version=TLSv1/SSLv3 cipher=DHE-RSA-AES256-SHA bits=256 verify=NO)
for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:47 -0400
Message-ID: <4BF3A088.4050101@redhat.com>
Date: Wed, 19 May 2010 10:25:44 +0200
From: Gerd Hoffmann <kraxel@redhat.com>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100430 Fedora/3.0.4-2.fc12
Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hi,

> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,
Gerd

#####

Return-Path: hverkuil@xs4all.nl
Received: from zmta02.collab.prod.int.phx2.redhat.com (LHLO
zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:28:02 -0400 (EDT)
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by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id E3BD49C63A;
Wed, 19 May 2010 04:28:02 -0400 (EDT)
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by localhost (zmta02.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024)

with ESMTP id pjn9-H+iB0WI; Wed, 19 May 2010 04:28:02 -0400 (EDT)
Received: from int-mx03.intmail.prod.int.phx2.redhat.com (int-mx03.intmail.prod.int.phx2.redhat.com [10.5.11.16])
by zmta02.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id CFAC29C608;
Wed, 19 May 2010 04:28:02 -0400 (EDT)
Received: from mx1.redhat.com (ext-mx10.extmail.prod.ext.phx2.redhat.com [10.5.110.14])
by int-mx03.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8S2bj019331;
Wed, 19 May 2010 04:28:02 -0400
Received: from smtp-vbr8.xs4all.nl (smtp-vbr8.xs4all.nl [194.109.24.28])
by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8Rp9r025653;
Wed, 19 May 2010 04:27:51 -0400
Received: from webmail.xs4all.nl (dovemail13.xs4all.nl [194.109.26.15])
by smtp-vbr8.xs4all.nl (8.13.8/8.13.8) with ESMTP id o4J8RiZq008091;
Wed, 19 May 2010 10:27:45 +0200 (CEST)
(envelope-from hverkuil@xs4all.nl)
Received: from 62.70.2.252
(SquirrelMail authenticated user hverkuil)
by webmail.xs4all.nl with HTTP;
Wed, 19 May 2010 10:27:50 +0200
Message-ID: <3968c0dc456676eb0b1652936d795482.squirrel@webmail.xs4all.nl>
In-Reply-To: <4BF3A064.7080602@redhat.com>
References: <4BF3A064.7080602@redhat.com>
Date: Wed, 19 May 2010 10:27:50 +0200
Subject: Re: Re-licensing v411-compat.c code which you wrote
From: "Hans Verkuil" <hverkuil@xs4all.nl>
To: "Hans de Goede" <hdegoede@redhat.com>
Cc: "Gerd Hoffmann" <kraxel@redhat.com>,
"Mauro Carvalho Chehab" <mchehab@redhat.com>,
"Trent Piepho" <xyzyz@speakeasy.org>,
"Huzaifa Sidhpurwala" <huzaifas@redhat.com>
User-Agent: SquirrelMail/1.4.18
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02 (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v411 ioctl compat code living in v411-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv411 become independent of the kernel v411 ioctl
> compat code, so that it can be removed from the kernel.
>

> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil

>
> Thanks & Regards,
>
> Hans
>
>
> The long story:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
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> by doing decompression and video format conversion inside the
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>

> This was not acceptable thus it was time to write a library
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> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
> compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
>

--

Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

#####

Return-Path: mchehab@redhat.com

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zmta01.collab.prod.int.phx2.redhat.com) (10.5.5.31) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 10:25:02 -0400 (EDT)

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Wed, 19 May 2010 10:25:02 -0400 (EDT)

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with ESMTP id 8lqJbX3fk3W4; Wed, 19 May 2010 10:25:02 -0400 (EDT)

Received: from int-mx08.intmail.prod.int.phx2.redhat.com (int-mx08.intmail.prod.int.phx2.redhat.com [10.5.11.21])

by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id 5887890BAD;
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Wed, 19 May 2010 10:25:00 -0400
Message-ID: <4BF3F4B9.3060803@redhat.com>
Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@redhat.com>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Gerd Hoffmann <krxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
Trent Piepho <xyzyy@speakeasy.org>,
Huzaifa Sidhpurwala <huzai fas@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hans de Goede wrote:

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
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> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
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> For those who don't know me or the v4l1 cleanup effort,
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> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> than the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,

Mauro

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

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1.155 strace 5.6

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

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

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

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

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

```

* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*/

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1.162 util-linux 2.33.2

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ignore
\ctags
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scl/syslogconf/convert-syslogconf.awk$
.*/*\.*.am$
.*\.(q|l|yml|md|y|l|txt|xml|xsd|log|key|crt|files|in|conf)\.example|gradle|mk|supp|sub|guess|list|pc\.*make)$
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 tests/python_functional/tox.ini
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 storage|logthrdtest|logthrsourc|http-auth|ack-tracker[/^\.]*\$)
 lib/scanner/(csv-scanner|list-scanner|kv-scanner|xml-scanner[/^\.]*\$)
 libtest
 syslog-ng(-ctl)?
 modules/java-modules/common
 modules/java/(native|proxies|src)
 modules/native
 tests/loggen
 persist-tool
 LGPLv2+_SSL,non-balabit
 modules/http/(http|http-parser|http-plugin|)\.[ch]

modules/http/http-grammar.y
modules/timestamp/rewrite-.*\$
modules/add-contextual-data/add-contextual-data-glob-selector\.[ch]\$
modules/add-contextual-data/tests/test_glob_selector\.c\$
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A. HISTORY OF THE SOFTWARE

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

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

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

All 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.

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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Version 3, 29 June 2007

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia

Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
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Axel Haslam
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Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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```
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```

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

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

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Public License instead of this License.

```
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif

/* 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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  Last Modified: Nov 16, 2000
-->

```

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Andreas Oberritter <obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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for the nxt2004 frontend driver

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single nxt200x frontend driver.

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QLogic Linux FC-FCoE Driver

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Version 2, June 1991

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1.172 duktape 2.4.0

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```
#!/usr/bin/env python2
```

```
#
```

```
# Helper to create an SPDX license file (http://spdx.org)
```

```
#
```

```
# This must be executed when the dist/ directory is otherwise complete,  
# except for the SPDX license, so that the file lists and such contained  
# in the SPDX license will be correct.
```

```
#
```

```
# The utility outputs RDF/XML to specified file:
```

```
#
```

```
# $ python create_spdx_license.py /tmp/license.spdx
```

```

#
# Then, validate with SPDXViewer and SPDXTools:
#
# $ java -jar SPDXViewer.jar /tmp/license.spdx
# $ java -jar java -jar spdx-tools-1.2.5-jar-with-dependencies.jar RdfToHtml /tmp/license.spdx /tmp/license.html
#
# Finally, copy to dist:
#
# $ cp /tmp/license.spdx dist/license.spdx
#
# SPDX FAQ indicates there is no standard extension for an SPDX license file
# but '.spdx' is a common practice.
#
# The algorithm to compute a "verification code", implemented in this file,
# can be verified as follows:
#
# # build dist tar.xz, copy to /tmp/duktape-N.N.N.tar.xz
# $ cd /tmp
# $ tar xvfJ duktape-N.N.N.tar.xz
# $ rm duktape-N.N.N/license.spdx # remove file excluded from verification code
# $ java -jar spdx-tools-1.2.5-jar-with-dependencies.jar GenerateVerificationCode /tmp/duktape-N.N.N/
#
# Compare the resulting verification code manually with the one in license.spdx.
#
# Resources:
#
# - http://spdx.org/about-spdx/faqs
# - http://wiki.spdx.org/view/Technical\_Team/Best\_Practices
#

```

```

import os
import sys
import re
import datetime
import sha
import rdflib
from rdflib import URIRef, BNode, Literal, Namespace

RDF = Namespace('http://www.w3.org/1999/02/22-rdf-syntax-ns#')
RDFS = Namespace('http://www.w3.org/2000/01/rdf-schema#')
XSD = Namespace('http://www.w3.org/2001/XMLSchema#')
SPDX = Namespace('http://spdx.org/rdf/terms#')
DOAP = Namespace('http://usefulinc.com/ns/doap#')
DUKTAPE = Namespace('http://duktape.org/rdf/terms#')

def checksumFile(g, filename):
    f = open(filename, 'rb')
    d = f.read()

```

```

f.close()
shasum = sha.sha(d).digest().encode('hex').lower()

csum_node = BNode()
g.add((csum_node, RDF.type, SPDX.Checksum))
g.add((csum_node, SPDX.algorithm, SPDX.checksumAlgorithm_sha1))
g.add((csum_node, SPDX.checksumValue, Literal(shasum)))

return csum_node

def computePackageVerification(g, dirname, excluded):
    # SPDX 1.2 Section 4.7
    # The SPDXTools command "GenerateVerificationCode" can be used to
    # check the verification codes created. Note that you must manually
    # remove "license.spdx" from the unpacked dist directory before
    # computing the verification code.

    verify_node = BNode()

    hashes = []
    for dirpath, dirnames, filenames in os.walk(dirname):
        for fn in filenames:
            full_fn = os.path.join(dirpath, fn)
            f = open(full_fn, 'rb')
            d = f.read()
            f.close()

            if full_fn in excluded:
                #print('excluded in verification: ' + full_fn)
                continue
            #print('included in verification: ' + full_fn)

            file_sha1 = sha.sha(d).digest().encode('hex').lower()
            hashes.append(file_sha1)

    #print(repr(hashes))
    hashes.sort()
    #print(repr(hashes))
    verify_code = sha.sha("".join(hashes)).digest().encode('hex').lower()

    for fn in excluded:
        g.add((verify_node, SPDX.packageVerificationCodeExcludedFile, Literal(fn)))
        g.add((verify_node, SPDX.packageVerificationCodeValue, Literal(verify_code)))

    return verify_node

def fileType(filename):
    ign, ext = os.path.splitext(filename)

```

```

if ext in [ '.c', '.h', '.js' ]:
    return SPDX.fileType_source
else:
    return SPDX.fileType_other

def getDuktapeVersion():
    f = open('./src/duktape.h')
    re_ver = re.compile(r'^#define\s+DUK_VERSION\s+(\d+)L$')
    for line in f:
        line = line.strip()
        m = re_ver.match(line)
        if m is None:
            continue
        ver = int(m.group(1))
        return '%d.%d.%d' % ((ver / 10000) % 100,
                               (ver / 100) % 100,
                               ver % 100)

    raise Exception('could not figure out Duktape version')

def main():
    outfile = sys.argv[1]

    if not os.path.exists('CONTRIBUTING.md') and os.path.exists('tests/ecmascript'):
        sys.stderr.write('Invalid CWD, must be in Duktape root with dist/ built')
        sys.exit(1)
    os.chdir('dist')
    if not os.path.exists('Makefile.cmdline'):
        sys.stderr.write('Invalid CWD, must be in Duktape root with dist/ built')
        sys.exit(1)

    duktape_version = getDuktapeVersion()
    duktape_pkgname = 'duktape-' + duktape_version + '.tar.xz'
    now = datetime.datetime.utcnow()
    now = datetime.datetime(now.year, now.month, now.day, now.hour, now.minute, now.second)
    creation_date = Literal(now.isoformat() + 'Z', datatype=XSD.dateTime)
    duktape_org = Literal('Organization: duktape.org')
    mit_license = URIRef('http://spdx.org/licenses/MIT')
    duktape_copyright = Literal('Copyright 2013-2017 Duktape authors (see AUTHORS.rst in the Duktape
distributable)')

    g = rdflib.Graph()

    crea_node = BNode()
    g.add((crea_node, RDF.type, SPDX.CreationInfo))
    g.add((crea_node, RDFS.comment, Literal("")))
    g.add((crea_node, SPDX.creator, duktape_org))
    g.add((crea_node, SPDX.created, creation_date))

```

```

g.add((crea_node, SPDX.licenseListVersion, Literal('1.20'))) # http://spdx.org/licenses/

# 'name' should not include a version number (see best practices)
pkg_node = BNode()
g.add((pkg_node, RDF.type, SPDX.Package))
g.add((pkg_node, SPDX.name, Literal('Duktape')))
g.add((pkg_node, SPDX.versionInfo, Literal(duktape_version)))
g.add((pkg_node, SPDX.packageFileName, Literal(duktape_pkgname)))
g.add((pkg_node, SPDX.supplier, duktape_org))
g.add((pkg_node, SPDX.originator, duktape_org))
g.add((pkg_node, SPDX.downloadLocation, Literal('http://duktape.org/' + duktape_pkgname,
datatype=XSD.anyURI)))
g.add((pkg_node, SPDX.homePage, Literal('http://duktape.org/', datatype=XSD.anyURI)))
verify_node = computePackageVerification(g, '.', [ './license.spdx' ])
g.add((pkg_node, SPDX.packageVerificationCode, verify_node))
# SPDX.checksum: omitted because license is inside the package
g.add((pkg_node, SPDX.sourceInfo, Literal('Official duktape.org release built from GitHub repo
https://github.com/svaarala/duktape.')))

# NOTE: MIT license alone is sufficient for now, because Duktape, Lua,
# Murmurhash2, and CommonJS (though probably not even relevant for
# licensing) are all MIT.
g.add((pkg_node, SPDX.licenseConcluded, mit_license))
g.add((pkg_node, SPDX.licenseInfoFromFiles, mit_license))
g.add((pkg_node, SPDX.licenseDeclared, mit_license))
g.add((pkg_node, SPDX.licenseComments, Literal('Duktape is copyrighted by its authors and licensed under the
MIT license. MurmurHash2 is used internally, it is also under the MIT license. Duktape module loader is based on
the CommonJS module loading specification (without sharing any code), CommonJS is under the MIT license.')))
g.add((pkg_node, SPDX.copyrightText, duktape_copyright))
g.add((pkg_node, SPDX.summary, Literal('Duktape ECMAScript interpreter')))
g.add((pkg_node, SPDX.description, Literal('Duktape is an embeddable Javascript engine, with a focus on
portability and compact footprint')))
# hasFile properties added separately below

#reviewed_node = BNode()
#g.add((reviewed_node, RDF.type, SPDX.Review))
#g.add((reviewed_node, SPDX.reviewer, XXX))
#g.add((reviewed_node, SPDX.reviewDate, XXX))
#g.add((reviewed_node, RDFS.comment, ''))

spdx_doc = BNode()
g.add((spdx_doc, RDF.type, SPDX.SpxDocument))
g.add((spdx_doc, SPDX.specVersion, Literal('SPDX-1.2')))
g.add((spdx_doc, SPDX.dataLicense, URIRef('http://spdx.org/licenses/CC0-1.0')))
g.add((spdx_doc, RDFS.comment, Literal('SPDX license for Duktape ' + duktape_version)))
g.add((spdx_doc, SPDX.creationInfo, crea_node))
g.add((spdx_doc, SPDX.describesPackage, pkg_node))
# SPDX.hasExtractedLicensingInfo

```

```

# SPDX.reviewed
# SPDX.referencesFile: added below

for dirpath, dirnames, filenames in os.walk('.'):
    for fn in filenames:
        full_fn = os.path.join(dirpath, fn)
        #print('# file: ' + full_fn)

        file_node = BNode()
        g.add((file_node, RDF.type, SPDX.File))
        g.add((file_node, SPDX.fileName, Literal(full_fn)))
        g.add((file_node, SPDX.fileType, fileType(full_fn)))
        g.add((file_node, SPDX.checksum, checksumFile(g, full_fn)))

        # Here we assume that LICENSE.txt provides the actual "in file"
        # licensing information, and everything else is implicitly under
        # MIT license.
        g.add((file_node, SPDX.licenseConcluded, mit_license))
        if full_fn == './LICENSE.txt':
            g.add((file_node, SPDX.licenseInfoInFile, mit_license))
        else:
            g.add((file_node, SPDX.licenseInfoInFile, URIRef(SPDX.none)))

        # SPDX.licenseComments
        g.add((file_node, SPDX.copyrightText, duktape_copyright))
        # SPDX.noticeText
        # SPDX.artifactOf
        # SPDX.fileDependency
        # SPDX.fileContributor

        # XXX: should referencesFile include all files?
        g.add((spdx_doc, SPDX.referencesFile, file_node))

        g.add((pkg_node, SPDX.hasFile, file_node))

# Serialize into RDF/XML directly. We could also serialize into
# N-Triples and use external tools (like 'rapper') to get cleaner,
# abbreviated output.

#print('# Duktape SPDX license file (autogenerated)')
#print(g.serialize(format='turtle'))
#print(g.serialize(format='nt'))
f = open(outfile, 'wb')
#f.write(g.serialize(format='rdf/xml'))
f.write(g.serialize(format='xml'))
f.close()

if __name__ == '__main__':

```


main()

CommonJS specification snapshots are included in the references/
directory. CommonJS is under the MIT license: <http://www.commonjs.org/>.

1.173 glm 0.9.7.5

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1.174 secilc 2.9

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1.175 ncurses 6.2

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-- vile: txtmode file-encoding=utf-8
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
This package is used for testing builds of ncurses.

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

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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-- vile:txtmode fc=72

-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$

1.176 elfutils 0.178

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```

```
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*/

```
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# for linear algebra.
#
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#
# Author: mierle@gmail.com (Keir Mierle)
#
# Make the long-awaited conversion to MPL.
```

```
lgpl3_header = ""
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// modify it under the terms of the GNU Lesser General Public
// License as published by the Free Software Foundation; either
// version 3 of the License, or (at your option) any later version.
//
// Alternatively, you can redistribute it and/or
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""
```

```

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// Public License v. 2.0. If a copy of the MPL was not distributed
// with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
"""

import os
import sys

exclusions = set(['relicense.py'])

def update(text):
    if text.find(lgpl3_header) == -1:
        return text, False
    return text.replace(lgpl3_header, mpl2_header), True

rootdir = sys.argv[1]
for root, sub_folders, files in os.walk(rootdir):
    for basename in files:
        if basename in exclusions:
            print 'SKIPPED', filename
            continue
        filename = os.path.join(root, basename)
        fo = file(filename)
        text = fo.read()
        fo.close()

        text, updated = update(text)
        if updated:
            fo = file(filename, "w")
            fo.write(text)
            fo.close()
            print 'UPDATED', filename
        else:
            print '      ', filename

```

1.181 nss 3.51

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This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
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here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

Chandler Carruth <chandlerc@google.com>

Chris Prince <cprince@google.com>

Chris Taylor <taylorc@google.com>

Dan Egnor <egnor@google.com>

Eric Roman <eroman@chromium.org>

Hady Zalek <hady.zalek@gmail.com>

Jeffrey Yasskin <jyasskin@google.com>

Ji Sigursson <joi@google.com>

Keir Mierle <mierle@gmail.com>

Keith Ray <keith.ray@gmail.com>

Kenton Varda <kenton@google.com>

Manuel Klimek <klimek@google.com>

Markus Heule <markus.heule@gmail.com>

Mika Raento <mikie@iki.fi>

Mikls Fazekas <mfazekas@szemafor.com>

Pasi Valminen <pasi.valminen@gmail.com>

Patrick Hanna <phanna@google.com>

Patrick Riley <pfr@google.com>

Peter Kaminski <piotrk@google.com>

Preston Jackson <preston.a.jackson@gmail.com>

Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>

Russ Cox <rsc@google.com>

Russ Rufer <russ@pentad.com>

Sean McAfee <eefacm@gmail.com>

Sigurur sgeirsson <siggi@google.com>

Tracy Bialik <tracy@pentad.com>

Vadim Berman <vadimb@google.com>

Vlad Losev <vladl@google.com>

1.182 libaio 0.3.112

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1.183 spawn-fcgi 1.6.3

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1.184 libopus 1.3.1

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1.185 zlib 1.2.11

1.185.1 Available under license :

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Upstream-Name: zlib

Upstream-Contact: zlib@gzip.org

Source: <http://zlib.net/>

Comment: This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from <ftp.uu.net> in the directory `/pub/archiving/zip/zlib` as the file `zlib-1.0.4.tar.gz`.

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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contrib/delphi
contrib/dotzlib
contrib/gcc_gvmat64
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contrib/iostream2
contrib/iostream3
contrib/masmx64
contrib/masmx86
contrib/pascal
contrib/puff
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contrib/untgz
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Jean-loup Gailly Mark Adler
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1.186 net-snmp 5.8.1.pre2

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1.188 libcgrouop 0.41

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1.189 backbone 1.4.0

1.189.1 Available under license :

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1.190 fontconfig 2.12.6

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1.191 e2fsprogs 1.43.9

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

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

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#

This is a Makefile stub which handles the creation of BSD shared # libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

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

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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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Theodore Ts'o
23-June-2007

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

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

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```
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```

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```
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1.194 libgbm 9.0.0

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This package was debianized by Xavier Boudet <x-boudet@ti.com> on
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1.195 lvm2 2.02.186

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1.199 elfutils 0.178

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Version 3, 29 June 2007

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

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@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@end ignore
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@c man begin DESCRIPTION
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

Activities other than copying, distribution and modification are not

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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1.202 react-router-dom 5.2.0

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1.203 libconfig 1.7.2

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

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

When a program is linked with a library, whether statically or using

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
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stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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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.

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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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Upstream-Name: ls-config

Source: <https://github.com/lucas-net-pl/ls-config>

Files: *

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

That's all there is to it!

```
@c \input texinfo.tex @c -*texinfo-*-  
@c  
@c %**start of header
```

```
@c All text is ignored before the setfilename.  
@setfilename LGPL.info
```

```
@center GNU LESSER GENERAL PUBLIC LICENSE  
@center Version 2.1, February 1999
```

```
@sp 1
```

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

```
@sp 1  
@center Preamble  
@sp 1
```

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@end enumerate

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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1.205 python-certifi 2020.4.5.1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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1.206 ipcalc 1.3

1.207 redux-thunk 2.3.0

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1.208 nghttp 1.40.0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.209 cryptsetup 2.3.2

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Version 2, June 1991

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1.210 ipcalc 1.3

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.216 libhangul 0.1.0

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1.217 @babel/plugin-proposal-object-rest-spread 7.10.1

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1.219 linux-kernel 4.4.0

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1.220 dlib 19.16

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Version: 19.16

Last Modified: Jun 22, 2008

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1.221 prettier 2.0.5

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1.226 html-webpack-plugin 4.3.0

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```

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```
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```

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```

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1.231 json-c 0.12.99

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1.232 imx-gpu viv-6.2.4.p4.0-aarch64

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1.233 tftp-hpa 0.48

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```
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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/MCONFIG.in
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```

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```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-
0.48/common/tftpsubs.c
* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftp/main.c
* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftp/tftp.c
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```

```

.\" -*- nroff -*- ----- *
.\" $Id$
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```

```

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.\"
.\"----- */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftp/tftp.1.in
* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/tftpd.8.in
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```

```

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*
* ----- */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/remap.c
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```

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 0.48

Release: 1
License: BSD
Group: Applications/Internet
Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>
BuildPreReq: tcp_wrappers
BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}
mkdir -p \${RPM_BUILD_ROOT}%{_bindir}
mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \
SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server

```
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
```

```
if [ $1 = 0 ]; then
```

```
    /sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
fi
```

```
%clean
```

```
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
```

```
%defattr(-,root,root)
```

```
%{_bindir}/tftp
```

```
%{_mandir}/man1/*
```

```
%files server
```

```
%defattr(-,root,root)
```

```
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
```

```
%dir /tftpboot
```

```
%{_sbindir}/in.tftpd
```

```
%{_mandir}/man8/*
```

```
%changelog
```

```
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
```

```
- removed completely broken "Malta" patch.
```

```
- integrated into build machinery so rpm -ta works.
```

```
* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

```
- 0.33
```

```
- Add /tftpboot directory (#88204)
```

```
* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
```

```
- rebuilt
```

```
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
```

```
- add BuildPreReq on tcp_wrappers
```

```
* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
```

```
- rebuilt
```

```
* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
```

```
- Update to 0.32
```

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476

- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)

- added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed
- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftp.spec

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*
* @(#)tftpsubs.h 8.1 (Berkeley) 6/6/93
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-
0.48/common/tftpsubs.h

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* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/tftpd.c

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*

* @(#)extern.h 8.1 (Berkeley) 6/6/93

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftp/extern.h

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/* ----- */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/recvfrom.c

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/recvfrom.h

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/* ----- */

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*
* ----- */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/tftpd.h
* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/remap.h
* /opt/ws_local/PERMITS_SQL/1006267951_1591388396.59/0/tftp-hpa-0-48-tar-gz/tftp-hpa-0.48/tftpd/misc.c

1.234 sysv-init 2.90

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Version 2, June 1991

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1.235 vim 8.2.0735

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1.236 @babel/plugin-syntax-dynamic-import

7.8.3

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1.237 unbound 1.9.4

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1.238 python-chardet 3.0.4

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That's all there is to it!

1.239 libjpeg 6b

1.239.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.239.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

Please read at least the files install.doc and usage.doc. Useful 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

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,

plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented

Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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 highly 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 <ftp://ftp.uu.net/graphics/jpeg/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 full 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). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/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 <ftp://ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. 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. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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: <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 with body

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RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBMPPLUS/NETPBM is not nearly as portable as the IJG software is;

you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.240 googlespeech

58249308b9c7bd64ba18ce99100751397e5184
a7

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1.241 python-idna 2.9

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1.242 zlib 1.2.8

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

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1.243 wayland 0.95.0

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1.244 libopusfile 0.7

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1.245 libudev 242-7

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1.247 grpc 1.21.0-8

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>

Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
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Sigurur sgeirsson <siggi@google.com>
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1.248 vx-axis 0.0.197

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1.249 libsemanage1-dev 2.9

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1.250 libpng 1.6.37

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1.251 busybox 1.28.2

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.252 libevent 2.1.10

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1.258 pam 1.3.1

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1.259 react-spring 8.0.27

1.260 history 4.10.1

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1.261 libxml2 2.9.10

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1.262 react-router 5.2.0

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1.263 asio-c++-library 1.16.1

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1.264 opus 1.3.1

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1.265 audit 2.8.5

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Ajay Joshi <jaj@google.com>
Balzs Dn <balzs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>

Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Patrick Hanna <phanna@google.com>
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1.267 connected-react-router 6.8.0

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1.268 vx-shape 0.0.197

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1.269 rfcill 0.5

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1.270 rsync 2.6.9

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```
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```

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Ty Coon, President of Vice
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1.271 python-ujson 2.0.3

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

<https://github.com/client9/stringencoders>

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Numeric decoder derived from from TCL library

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1.272 sox 14.4.2

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.273 protobuf 3.7.1 2

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1.274 curl 7.70.0

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=====

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1.275 mmc-utils

b4fe0c8c0e57a74c01755fa9362703b60d7ee49

d

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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(For example, a function in a library to compute square roots has

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

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

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

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

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see `init_nicstar()` for PHY initialization to change this. This driver

```

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

```

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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Dennis Noermann <dennis.noermann@noernet.de>
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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
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Tony Lindgren
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Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>

Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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```
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```

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

```

* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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<signature of Ty Coon>, 1 April 1989
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holz <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

...and all the other dbox2 people

for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>

for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>

for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>

for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

Augusto Cardoso <augusto@carhil.net>

for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>

for his work on the budget drivers, the demux code, the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>

for his work on calculating and checking the crc's for the TechnoTrend/Hauppage DEC driver firmware

Michael Dreher <michael@5dot1.de>

Andreas 'randy' Weinberger

for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>

for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>

for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>

for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>

for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>

for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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1.278 bash 3.2.57

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From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

} Subject: ksh scripts

} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995

} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;

} 9 May 95 10:39 PDT

} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)

} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)

} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}

} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on

>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

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Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@inet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

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```
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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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1.280 brace 0.11.1

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1.282 ethtool 5.4

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1.283 mcstrans 2.9

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```

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1.284 react-compound-slider 2.5.0

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1.285 sqlite 3.29.0

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1.286 duktape 2.4.0

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=====
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=====

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```
#!/usr/bin/env python2
```

```
#
```

```
# Helper to create an SPDX license file (http://spdx.org)
```

```
#
```

```
# This must be executed when the dist/ directory is otherwise complete,  
# except for the SPDX license, so that the file lists and such contained  
# in the SPDX license will be correct.
```

```
#
```

```
# The utility outputs RDF/XML to specified file:
```

```
#
```

```
# $ python create_spdx_license.py /tmp/license.spdx
```

```
#
```

```
# Then, validate with SPDXViewer and SPDXTools:
```

```
#
```

```
# $ java -jar SPDXViewer.jar /tmp/license.spdx
```

```
# $ java -jar java -jar spdx-tools-1.2.5-jar-with-dependencies.jar RdfToHtml /tmp/license.spdx /tmp/license.html
```

```
#
```

```
# Finally, copy to dist:
```

```
#
```

```
# $ cp /tmp/license.spdx dist/license.spdx
```

```
#
```

```
# SPDX FAQ indicates there is no standard extension for an SPDX license file  
# but '.spdx' is a common practice.
```

```
#
```

```
# The algorithm to compute a "verification code", implemented in this file,  
# can be verified as follows:
```

```
#
```

```
# # build dist tar.xz, copy to /tmp/duktape-N.N.N.tar.xz
```

```
# $ cd /tmp
```

```

# $ tar xvfJ duktape-N.N.N.tar.xz
# $ rm duktape-N.N.N/license.spdx # remove file excluded from verification code
# $ java -jar spdx-tools-1.2.5-jar-with-dependencies.jar GenerateVerificationCode /tmp/duktape-N.N.N/
#
# Compare the resulting verification code manually with the one in license.spdx.
#
# Resources:
#
# - http://spdx.org/about-spdx/faqs
# - http://wiki.spdx.org/view/Technical_Team/Best_Practices
#

```

```

import os
import sys
import re
import datetime
import sha
import rdflib
from rdflib import URIRef, BNode, Literal, Namespace

```

```

RDF = Namespace('http://www.w3.org/1999/02/22-rdf-syntax-ns#')
RDFS = Namespace('http://www.w3.org/2000/01/rdf-schema#')
XSD = Namespace('http://www.w3.org/2001/XMLSchema#')
SPDX = Namespace('http://spdx.org/rdf/terms#')
DOAP = Namespace('http://usefulinc.com/ns/doap#')
DUKTAPE = Namespace('http://duktape.org/rdf/terms#')

```

```

def checksumFile(g, filename):
    f = open(filename, 'rb')
    d = f.read()
    f.close()
    shasum = sha.sha(d).digest().encode('hex').lower()

    csum_node = BNode()
    g.add((csum_node, RDF.type, SPDX.Checksum))
    g.add((csum_node, SPDX.algorithm, SPDX.checksumAlgorithm_sha1))
    g.add((csum_node, SPDX.checksumValue, Literal(shasum)))

    return csum_node

```

```

def computePackageVerification(g, dirname, excluded):
    # SPDX 1.2 Section 4.7
    # The SPDXTools command "GenerateVerificationCode" can be used to
    # check the verification codes created. Note that you must manually
    # remove "license.spdx" from the unpacked dist directory before
    # computing the verification code.

```

```

    verify_node = BNode()

```

```

hashes = []
for dirpath, dirnames, filenames in os.walk(dirname):
    for fn in filenames:
        full_fn = os.path.join(dirpath, fn)
        f = open(full_fn, 'rb')
        d = f.read()
        f.close()

        if full_fn in excluded:
            #print('excluded in verification: ' + full_fn)
            continue
        #print('included in verification: ' + full_fn)

        file_sha1 = sha.sha(d).digest().encode('hex').lower()
        hashes.append(file_sha1)

#print(repr(hashes))
hashes.sort()
#print(repr(hashes))
verify_code = sha.sha("".join(hashes)).digest().encode('hex').lower()

for fn in excluded:
    g.add((verify_node, SPDX.packageVerificationCodeExcludedFile, Literal(fn)))
g.add((verify_node, SPDX.packageVerificationCodeValue, Literal(verify_code)))

return verify_node

def fileType(filename):
    ign, ext = os.path.splitext(filename)
    if ext in [ '.c', '.h', '.js' ]:
        return SPDX.fileType_source
    else:
        return SPDX.fileType_other

def getDuktapeVersion():
    f = open('./src/duktape.h')
    re_ver = re.compile(r'^#define\s+DUK_VERSION\s+(\d+)\s+L$')
    for line in f:
        line = line.strip()
        m = re_ver.match(line)
        if m is None:
            continue
        ver = int(m.group(1))
    return '%d.%d.%d' % ((ver / 10000) % 100,
                        (ver / 100) % 100,
                        ver % 100)

```

```

raise Exception('could not figure out Duktape version')

def main():
    outfile = sys.argv[1]

    if not os.path.exists('CONTRIBUTING.md') and os.path.exists('tests/ecmascript'):
        sys.stderr.write('Invalid CWD, must be in Duktape root with dist/ built')
        sys.exit(1)
    os.chdir('dist')
    if not os.path.exists('Makefile.cmdline'):
        sys.stderr.write('Invalid CWD, must be in Duktape root with dist/ built')
        sys.exit(1)

    duktape_version = getDuktapeVersion()
    duktape_pkgname = 'duktape-' + duktape_version + '.tar.xz'
    now = datetime.datetime.utcnow()
    now = datetime.datetime(now.year, now.month, now.day, now.hour, now.minute, now.second)
    creation_date = Literal(now.isoformat() + 'Z', datatype=XSD.dateTime)
    duktape_org = Literal('Organization: duktape.org')
    mit_license = URIRef('http://spdx.org/licenses/MIT')
    duktape_copyright = Literal('Copyright 2013-2017 Duktape authors (see AUTHORS.rst in the Duktape
distributable)')

    g = rdflib.Graph()

    crea_node = BNode()
    g.add((crea_node, RDF.type, SPDX.CreationInfo))
    g.add((crea_node, RDFS.comment, Literal("")))
    g.add((crea_node, SPDX.creator, duktape_org))
    g.add((crea_node, SPDX.created, creation_date))
    g.add((crea_node, SPDX.licenseListVersion, Literal('1.20'))) # http://spdx.org/licenses/

    # 'name' should not include a version number (see best practices)
    pkg_node = BNode()
    g.add((pkg_node, RDF.type, SPDX.Package))
    g.add((pkg_node, SPDX.name, Literal('Duktape')))
    g.add((pkg_node, SPDX.versionInfo, Literal(duktape_version)))
    g.add((pkg_node, SPDX.packageFileName, Literal(duktape_pkgname)))
    g.add((pkg_node, SPDX.supplier, duktape_org))
    g.add((pkg_node, SPDX.originator, duktape_org))
    g.add((pkg_node, SPDX.downloadLocation, Literal('http://duktape.org/' + duktape_pkgname,
datatype=XSD.anyURI)))
    g.add((pkg_node, SPDX.homePage, Literal('http://duktape.org/', datatype=XSD.anyURI)))
    verify_node = computePackageVerification(g, '.', [ './license.spdx' ])
    g.add((pkg_node, SPDX.packageVerificationCode, verify_node))
    # SPDX.checksum: omitted because license is inside the package
    g.add((pkg_node, SPDX.sourceInfo, Literal('Official duktape.org release built from GitHub repo
https://github.com/svaarala/duktape.')))

```

```

# NOTE: MIT license alone is sufficient for now, because Duktape, Lua,
# Murmurhash2, and CommonJS (though probably not even relevant for
# licensing) are all MIT.
g.add((pkg_node, SPDX.licenseConcluded, mit_license))
g.add((pkg_node, SPDX.licenseInfoFromFiles, mit_license))
g.add((pkg_node, SPDX.licenseDeclared, mit_license))
g.add((pkg_node, SPDX.licenseComments, Literal('Duktape is copyrighted by its authors and licensed under the
MIT license. MurmurHash2 is used internally, it is also under the MIT license. Duktape module loader is based on
the CommonJS module loading specification (without sharing any code), CommonJS is under the MIT license.')))
g.add((pkg_node, SPDX.copyrightText, duktape_copyright))
g.add((pkg_node, SPDX.summary, Literal('Duktape ECMAScript interpreter')))
g.add((pkg_node, SPDX.description, Literal('Duktape is an embeddable Javascript engine, with a focus on
portability and compact footprint')))
# hasFile properties added separately below

#reviewed_node = BNode()
#g.add((reviewed_node, RDF.type, SPDX.Review))
#g.add((reviewed_node, SPDX.reviewer, XXX))
#g.add((reviewed_node, SPDX.reviewDate, XXX))
#g.add((reviewed_node, RDFS.comment, ""))

spx_doc = BNode()
g.add((spx_doc, RDF.type, SPDX.SpxDocument))
g.add((spx_doc, SPDX.specVersion, Literal('SPDX-1.2')))
g.add((spx_doc, SPDX.dataLicense, URIRef('http://spdx.org/licenses/CC0-1.0')))
g.add((spx_doc, RDFS.comment, Literal('SPDX license for Duktape ' + duktape_version)))
g.add((spx_doc, SPDX.creationInfo, crea_node))
g.add((spx_doc, SPDX.describesPackage, pkg_node))
# SPDX.hasExtractedLicensingInfo
# SPDX.reviewed
# SPDX.referencesFile: added below

for dirpath, dirnames, filenames in os.walk('.'):
    for fn in filenames:
        full_fn = os.path.join(dirpath, fn)
        #print('# file: ' + full_fn)

        file_node = BNode()
        g.add((file_node, RDF.type, SPDX.File))
        g.add((file_node, SPDX.fileName, Literal(full_fn)))
        g.add((file_node, SPDX.fileType, fileType(full_fn)))
        g.add((file_node, SPDX.checksum, checksumFile(g, full_fn)))

        # Here we assume that LICENSE.txt provides the actual "in file"
        # licensing information, and everything else is implicitly under
        # MIT license.
        g.add((file_node, SPDX.licenseConcluded, mit_license))

```

```

if full_fn == './LICENSE.txt':
    g.add((file_node, SPDX.licenseInfoInFile, mit_license))
else:
    g.add((file_node, SPDX.licenseInfoInFile, URIRef(SPDX.none)))

# SPDX.licenseComments
g.add((file_node, SPDX.copyrightText, duktape_copyright))
# SPDX.noticeText
# SPDX.artifactOf
# SPDX.fileDependency
# SPDX.fileContributor

# XXX: should referencesFile include all files?
g.add((spdx_doc, SPDX.referencesFile, file_node))

g.add((pkg_node, SPDX.hasFile, file_node))

# Serialize into RDF/XML directly. We could also serialize into
# N-Triples and use external tools (like 'rapper') to get cleaner,
# abbreviated output.

#print('# Duktape SPDX license file (autogenerated)')
#print(g.serialize(format='turtle'))
#print(g.serialize(format='nt'))
f = open(outfile, 'wb')
#f.write(g.serialize(format='rdf/xml'))
f.write(g.serialize(format='xml'))
f.close()

if __name__ == '__main__':
    main()
CommonJS specification snapshots are included in the references/
directory. CommonJS is under the MIT license: http://www.commonjs.org/.

```

1.287 iproute 5.6.0

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1.288 cheroot 6.5.2

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1.289 wireless-backports 4.4.2 1

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1.290 rc-tooltip 4.2.1

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1.291 tcpdump 4.9.3

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1.292 Isof 4.93.2

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1.293 bash 3.2

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From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

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id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

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Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

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Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
```

```
} --  
} ``The lyf so short, the craft so long to lerne." - Chaucer  
}  
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu  
}-- End of excerpt from Chet Ramey  
    GNU GENERAL PUBLIC LICENSE  
    Version 2, June 1991
```

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Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

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```
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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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1.294 i2c-tools 3.0.2

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```
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```

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

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1.295 ciscossh 1.8.23.291

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```
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
```

```
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */
```

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```

[Tatu continues]

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- RSA is no longer included, found in the OpenSSL library

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

#ifndef HAVE_SETRESGID

int setresgid(gid_t, gid_t, gid_t);

#endif

#ifndef HAVE_SETRESUID

int setresuid(uid_t, uid_t, uid_t);

#endif

/*

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*

*/

```

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

```

1.296 rsync 2.6.9

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

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

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

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

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

Ty Coon, President of Vice

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1.297 bash 3.2

1.297.1 Available under license :

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
```

```
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST
```

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and

es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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Version 2, June 1991

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```

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Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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```

```
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NDisc6 : IPv6 diagnostic tools

```
=====
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The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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Chelsio Communication Terminator 4 ethernet controller firmware

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agere_sta_fw.bin -- 9.48 Hermes I

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The Linux driver architecture was based on two modules, the MSF (Module
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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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1.305 react-splitter-layout 4.0.0

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1.306 strace 5.6

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1.307 util-linux 2.26.2

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
-------	-------	-----	---------	------	------	-------	-------	-----

c	4096	20479	16384	8M	unused	0	0	0
---	------	-------	-------	----	--------	---	---	---

d	0	16064	16065	7.9M	unused	0	0	0
---	---	-------	-------	------	--------	---	---	---

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
-------	-------	-----	---------	------	------	-------	-------	-----

a	4096	6144	2049	1M	4.2BSD	0	0	0
---	------	------	------	----	--------	---	---	---

c	4096	20479	16384	8M	unused	0	0	0
---	------	-------	-------	----	--------	---	---	---

d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused	5 4.1BSD	9 4.4LFS	d boot
1 swap	6 Eighth Edition	a unknown	e ADOS
2 Version 6	7 4.2BSD	b HPFS	f HFS
3 Version 7	8 MS-DOS	c ISO-9660	10 AdvFS
4 System V			

Command (m for help):

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Version 2, June 1991

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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

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1.309 popt 1.16

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1.310 protobuf 3.7.1

1.311 vx-group 0.0.197

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1.312 d3-array 2.4.0

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1.313 nc6 1.0

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1.314 nginx 1.16.1

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1.315 e2fsprogs 1.42.13

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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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 This is the Debian GNU/Linux prepackaged version of the ss
 command-line interface parsing library library. It is currently
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 otherwise packaged as "e2fsprogs".

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

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 Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

That's all there is to it!

```

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

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

```

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

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

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Gadi Oxman, August 1995

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```
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```

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```
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```

```
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1.316 linux-carbon-tile 3.10.108

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
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Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>

AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr <krxaxel@cs.tu-berlin.de>

Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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QLogic Linux FC-FCoE Driver

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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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```
#ifndef __LICENSE_H
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
/* 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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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Andreas Oberritter <obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

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for the IR code for the ttusb-dec driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.317 font-awesome 4.7.0

1.317.1 Available under license :

```
---
layout: base
title: Font Awesome License
navbar_active: license
relative_path: ../
---
{% capture jumbotron_h1 %}<i class="fa fa-gavel" aria-hidden="true"></i>&nbsp; License{% endcapture %}
{% capture jumbotron_p %}The full details of how Font Awesome is licensed{% endcapture %}

{% include jumbotron.html %}
{% include stripe-social.html %}

<div class="container">
  {% capture stripe_ad_content %}
  <p class="lead">
```

Font Awesome is fully open source and is GPL friendly. You can use it for commercial projects, open source projects, or really just about whatever you want.

</p>

{% endcapture %}

{% include stripe-ad.html %}

<section>

<div class="alert alert-success">

<ul class="fa-ul margin-bottom-none">

<i class="fa-li fa fa-info-circle fa-lg" aria-hidden="true"></i>Attribution is no longer required as of Font

Awesome 3.0 but is much appreciated:

"Font Awesome by Dave Gandy - <http://fontawesome.io>".

</div>

</section>

<section>

<h2 class="page-header">Font License</h2>

Applies to all desktop and webfont files in the following directory:

<code>font-awesome/fonts/</code>.

License: {{ site.fontawesome.license.font.version }}

URL: {{ site.fontawesome.license.font.url }}

</section>

<section>

<h2 class="page-header">Code License</h2>

Applies to all CSS and LESS files in the following directories:

<code>font-awesome/css/</code>,

<code>font-awesome/less/</code>, and

<code>font-awesome/scss/</code>.

License: {{ site.fontawesome.license.code.version }}

URL: {{ site.fontawesome.license.code.url }}

</section>

<section>

<h2 class="page-header">Documentation License</h2>

Applies to all Font Awesome project files that are not a part of the Font or Code licenses.

```

    <li>License: {{ site.fontawesome.license.documentation.version }}</li>
    <li>URL: <a href="{{ site.fontawesome.license.documentation.url }}">{{
site.fontawesome.license.documentation.url }}</a></li>
  </ul>
</section>

```

```
<section>
```

```
  <h2 class="page-header">Brand Icons</h2>
```

```
  {% include brand-license.html %}
```

```
</section>
```

```
</div>
```

```
<!DOCTYPE html>
```

```
<!--[if lt IE 7 ]><html class="ie ie6" lang="en"> <![endif]-->
```

```
<!--[if IE 7 ]><html class="ie ie7" lang="en"> <![endif]-->
```

```
<!--[if IE 8 ]><html class="ie ie8" lang="en"> <![endif]-->
```

```
<!--[if (gte IE 9)!!(IE)]><!-->
```

```
<html lang="en" xmlns="http://www.w3.org/1999/html"> <!--<![endif]-->
```

```
<head>
```

```
  <!-- Basic Page Needs
```

```
===== -->
```

```
  <meta charset="utf-8" />
```

```
  <title>Font Awesome License</title>
```

```
  <meta name="description" content="Font Awesome, the iconic font designed for Bootstrap">
```

```
  <meta name="author" content="Dave Gandy">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <!--<meta name="viewport" content="initial-scale=1; maximum-scale=1">-->
```

```
  <!--[if lt IE 9]>
```

```
  <script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>
```

```
  <![endif]-->
```

```
  <!-- CSS
```

```
===== -->
```

```
  <link rel="stylesheet" href="../assets/css/site.css">
```

```
  <link rel="stylesheet" href="../assets/css/pygments.css">
```

```
  <link rel="stylesheet" href="../assets/font-awesome/css/font-awesome.css">
```

```
  <!--[if IE 7]>
```

```
  <link rel="stylesheet" href="../assets/font-awesome/css/font-awesome-ie7.css">
```

```
  <![endif]-->
```

```
  <!-- Le fav and touch icons -->
```

```
  <link rel="shortcut icon" href="../assets/ico/favicon.ico">
```

```
  <script type="text/javascript" src="//use.typekit.net/wnc7ioh.js"></script>
```

```
  <script type="text/javascript">try{Typekit.load();}catch(e){}</script>
```

```
  <script type="text/javascript">
```

```
    var _gaq = _gaq || [];
```

```

_gaq.push(['_setAccount', 'UA-30136587-1']);
_gaq.push(['_trackPageview']);

(function() {
  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();
</script>
</head>
<body data-spy="scroll" data-target=".navbar">
<div class="wrapper"> <!-- necessary for sticky footer. wrap all content except footer -->
<div class="navbar navbar-inverse navbar-static-top hidden-print">
<div class="navbar-inner">
<div class="container">
  <a class="btn btn-navbar" data-toggle="collapse" data-target=".nav-collapse">
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
  </a>

  <a class="brand" href=".."><i class="icon-flag"></i> Font Awesome</a>
  <div class="nav-collapse collapse">
    <ul class="nav">
      <li class="hidden-tablet "><a href="..">Home</a></li>
      <li><a href="..get-started/">Get Started</a></li>
      <li class="dropdown-split-left"><a href="..icons/">Icons</a></li>
      <li class="dropdown dropdown-split-right hidden-phone">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">
          <i class="icon-caret-down"></i>
        </a>
        <ul class="dropdown-menu pull-right">
          <li><a href="..icons/"><i class="icon-flag icon-fixed-width"></i>&nbsp; Icons</a></li>
          <li class="divider"></li>
          <li><a href="..icons/#new"><i class="icon-shield icon-fixed-width"></i>&nbsp; New Icons in
3.2.1</a></li>
          <li><a href="..icons/#web-application"><i class="icon-camera-retro icon-fixed-width"></i>&nbsp; Web
Application Icons</a></li>
          <li><a href="..icons/#currency"><i class="icon-won icon-fixed-width"></i>&nbsp; Currency
Icons</a></li>
          <li><a href="..icons/#text-editor"><i class="icon-file-text-alt icon-fixed-width"></i>&nbsp; Text Editor
Icons</a></li>
          <li><a href="..icons/#directional"><i class="icon-hand-right icon-fixed-width"></i>&nbsp; Directional
Icons</a></li>
          <li><a href="..icons/#video-player"><i class="icon-play-sign icon-fixed-width"></i>&nbsp; Video Player
Icons</a></li>
          <li><a href="..icons/#brand"><i class="icon-github icon-fixed-width"></i>&nbsp; Brand Icons</a></li>
          <li><a href="..icons/#medical"><i class="icon-medkit icon-fixed-width"></i>&nbsp; Medical

```

```

Icons</a></li>
  </ul>
</li>
<li class="dropdown-split-left"><a href=" ../examples/">Examples</a></li>
<li class="dropdown dropdown-split-right hidden-phone">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">
    <i class="icon-caret-down"></i>
  </a>
  <ul class="dropdown-menu pull-right">
    <li><a href=" ../examples/">Examples</a></li>
    <li class="divider"></li>
    <li><a href=" ../examples/#new-styles">New Styles</a></li>
    <li><a href=" ../examples/#inline-icons">Inline Icons</a></li>
    <li><a href=" ../examples/#larger-icons">Larger Icons</a></li>
    <li><a href=" ../examples/#bordered-pulled">Bordered & Pulled</a></li>
    <li><a href=" ../examples/#buttons">Buttons</a></li>
    <li><a href=" ../examples/#button-groups">Button Groups</a></li>
    <li><a href=" ../examples/#button-dropdowns">Button Dropdowns</a></li>
    <li><a href=" ../examples/#bulleted-lists">Bulleted Lists</a></li>
    <li><a href=" ../examples/#navigation">Navigation</a></li>
    <li><a href=" ../examples/#form-inputs">Form Inputs</a></li>
    <li><a href=" ../examples/#animated-spinner">Animated Spinner</a></li>
    <li><a href=" ../examples/#rotated-flipped">Rotated & Flipped</a></li>
    <li><a href=" ../examples/#stacked">Stacked</a></li>
    <li><a href=" ../examples/#custom">Custom CSS</a></li>
  </ul>
</li>
<li><a href=" ../whats-new/">
  <span class="hidden-tablet">What's </span>New</a>
</li>
<li><a href=" ../community/">Community</a></li>
<li class="active"><a href=" ../license/">License</a></li>
</ul>
<ul class="nav pull-right">
  <li><a href="http://articles.fortawesome.com">Blog</a></li>
</ul>
</div>
</div>
</div>
</div>

```

```

<div class="jumbotron jumbotron-ad hidden-print">
<div class="container">
  <h1><i class="icon-legal icon-large"></i>&nbsp; License</h1>

```



```
<p>The full details of how Font Awesome is licensed</p>
```

```
</div>
```

```
</div>
```

```
<div id="social-buttons" class="hidden-print">
```

```
<div class="container">
```

```
<ul class="unstyled inline">
```

```
<li>
```

```
<iframe class="github-btn" src="http://ghbtns.com/github-btn.html?user=FontAwesome&repo=Font-Awesome&type=watch&count=true" allowtransparency="true" frameborder="0" scrolling="0" width="100px" height="20px"></iframe>
```

```
</li>
```

```
<li>
```

```
<iframe class="github-btn" src="http://ghbtns.com/github-btn.html?user=FontAwesome&repo=Font-Awesome&type=fork&count=true" allowtransparency="true" frameborder="0" scrolling="0" width="102px" height="20px"></iframe>
```

```
</li>
```

```
<li class="follow-btn">
```

```
<a href="https://twitter.com/fontawesome" class="twitter-follow-button" data-link-color="#0069D6" data-show-count="true">Follow @fontawesome</a>
```

```
</li>
```

```
<li class="tweet-btn hidden-phone">
```

```
<a href="https://twitter.com/share" class="twitter-share-button" data-url="http://fontawesome.io" data-text="Font Awesome, the iconic font designed for Bootstrap" data-counturl="http://fontawesome.github.com/Font-Awesome/" data-count="horizontal" data-via="fontawesome" data-related="davegandy:Creator of Font Awesome">Tweet</a>
```

```
</li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
<div class="container">
```

```
<section class="old-docs">
```

```
<div class="row">
```

```
<div class="span12">
```

```
<div class="alert alert-danger">
```

```
<strong>Heads up!</strong> These docs are for v3.2.1, which is no longer officially supported. <a href="..">Check out the latest version of Font Awesome!</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</section>
```

```
<section class="hidden-print">
```

```
<div class="row stripe-ad">
```

```
<div class="span8">
```

<p class="lead">

Font Awesome is fully open source and is GPL compatible. You can use it for commercial projects, open source projects, or really just about whatever you want.

</p>

</div>

<div class="span4">

<div id="carbonads-container"><div class="carbonad"><div id="azcarbon"></div><script type="text/javascript">var z = document.createElement("script"); z.type = "text/javascript"; z.async = true; z.src = "http://engine.carbonads.com/z/32291/azcarbon_2_1_0_HORIZ"; var s = document.getElementsByTagName("script")[0]; s.parentNode.insertBefore(z, s);</script></div></div>

</div>

</div>

</section>

<div>

<div class="alert alert-info">

<ul class="icons-ul margin-bottom-none">

<i class="icon-li icon-info-sign icon-large"></i>Attribution is no longer required as of Font Awesome 3.0 but is much appreciated:

"Font Awesome by Dave Gandy - <http://fontawesome.io>".

</div>

</div>

<section>

<h2 class="page-header">Font License</h2>

Applies to all desktop and webfont files in the following directory:

<code>font-awesome/font/</code>.

License: SIL OFL 1.1

URL: http://scripts.sil.org/OFL

</section>

<section>

<h2 class="page-header">Code License</h2>

Applies to all CSS and LESS files in the following directories:

<code>font-awesome/css/</code> and

<code>font-awesome/less/</code>.

```
</li>
<li>License: MIT License</li>
<li>URL: <a href="http://opensource.org/licenses/mit-license.html">http://opensource.org/licenses/mit-
license.html</a></li>
</ul>
</section>
```

```
<section>
<h2 class="page-header">Documentation License</h2>
<ul>
<li>Applies to all Font Awesome project files that are not a part of the Font or Code licenses.</li>
<li>License: CC BY 3.0</li>
<li>URL: <a
href="http://creativecommons.org/licenses/by/3.0/">http://creativecommons.org/licenses/by/3.0/</a></li>
</ul>
</section>
```

```
<section>
<h2 class="page-header">Brand Icons</h2>
<ul class="margin-bottom-none">
<li>All brand icons are trademarks of their respective owners.</li>
<li>The use of these trademarks does not indicate endorsement of the trademark holder by Font Awesome, nor vice
versa.</li>
</ul>
</section>
```

```
</div>
```

```
<div class="push"><!-- necessary for sticky footer --></div>
</div>
```

```
<footer class="footer hidden-print">
<div class="container text-center">
```

```
<div>
```

```
<i class="icon-flag"></i> Font Awesome 3.2.1
```

```
<span class="hidden-phone">&middot;</span><br class="visible-phone">
```

```
Created and Maintained by <a href="http://twitter.com/davegandy">Dave Gandy</a>
```

```
</div>
```

```
<div>
```

```
Font Awesome licensed under <a href="http://scripts.sil.org/OFL">SIL OFL 1.1</a>
```

```
<span class="hidden-phone">&middot;</span><br class="visible-phone">
```

```
Code licensed under <a href="http://opensource.org/licenses/mit-license.html">MIT License</a>
```

```
<span class="hidden-phone hidden-tablet">&middot;</span><br class="visible-phone visible-tablet">
```

```
Documentation licensed under <a href="http://creativecommons.org/licenses/by/3.0/">CC BY 3.0</a>
```

```
</div>
```

```
<div>
```

```
Thanks to <a href="http://tracking.maxcdn.com/c/148092/3982/378"><i class="icon-maxcdn"></i>
```

```
MaxCDN</a> for providing the excellent <a
```

```

href="http://www.bootstrapcdn.com/#tab_fontawesome">BootstrapCDN for Font Awesome</a>
</div>
<div class="project">
  <a href="https://github.com/FortAwesome/Font-Awesome">GitHub Project</a> &middot;
  <a href="https://github.com/FortAwesome/Font-Awesome/issues">Issues</a>
</div>
</div>
</footer>

```

```

<script src="http://platform.twitter.com/widgets.js"></script>
<script src="../assets/js/jquery-1.7.1.min.js"></script>
<script src="../assets/js/ZeroClipboard-1.1.7.min.js"></script>
<script src="../assets/js/bootstrap-2.3.1.min.js"></script>
<script src="../assets/js/site.js"></script>

```

```
</body>
```

```
</html>
```

```
<!DOCTYPE html>
```

```
<!--[if lt IE 7 ]><html class="ie ie6" lang="en"> <![endif]-->
```

```
<!--[if IE 7 ]><html class="ie ie7" lang="en"> <![endif]-->
```

```
<!--[if IE 8 ]><html class="ie ie8" lang="en"> <![endif]-->
```

```
<!--[if (gte IE 9)!!(IE)]><!-->
```

```
<html lang="en" xmlns="http://www.w3.org/1999/html"> <!--<![endif]-->
```

```
<head>
```

```
<!-- Basic Page Needs
```

```
===== -->
```

```
<meta charset="utf-8" />
```

```
<title>icon-legal: Font Awesome Icons</title>
```

```
<meta name="description" content="Font Awesome, the iconic font designed for Bootstrap">
```

```
<meta name="author" content="Dave Gandy">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<!--<meta name="viewport" content="initial-scale=1; maximum-scale=1">-->
```

```
<!--[if lt IE 9]>
```

```
<script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>
```

```
<![endif]-->
```

```
<!-- CSS
```

```
===== -->
```

```
<link rel="stylesheet" href="../assets/css/site.css">
```

```
<link rel="stylesheet" href="../assets/css/pygments.css">
```

```
<link rel="stylesheet" href="../assets/font-awesome/css/font-awesome.css">
```

```
<!--[if IE 7]>
```

```
<link rel="stylesheet" href="../assets/font-awesome/css/font-awesome-ie7.css">
```

```
<![endif]-->
```

```
<!-- Le fav and touch icons -->
```

```

<link rel="shortcut icon" href="../../assets/ico/favicon.ico">

<script type="text/javascript" src="//use.typekit.net/wnc7ioh.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

<script type="text/javascript">
  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-30136587-1']);
  _gaq.push(['_trackPageview']);

  (function() {
    var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
  })();
</script>
</head>
<body data-spy="scroll" data-target=".navbar">
<div class="wrapper"> <!-- necessary for sticky footer. wrap all content except footer -->
<div class="navbar navbar-inverse navbar-static-top hidden-print">
<div class="navbar-inner">
  <div class="container">
    <a class="btn btn-navbar" data-toggle="collapse" data-target=".nav-collapse">
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
    </a>

    <a class="brand" href="../../"><i class="icon-flag"></i> Font Awesome</a>
    <div class="nav-collapse collapse">
      <ul class="nav">
        <li class="hidden-tablet "><a href="../../">Home</a></li>
        <li><a href="../../get-started/">Get Started</a></li>
        <li class="dropdown-split-left"><a href="../../icons/">Icons</a></li>
        <li class="dropdown dropdown-split-right hidden-phone">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">
            <i class="icon-caret-down"></i>
          </a>
          <ul class="dropdown-menu pull-right">
            <li><a href="../../icons/"><i class="icon-flag icon-fixed-width"></i>&nbsp;&nbsp;&nbsp;Icons</a></li>
            <li class="divider"></li>
            <li><a href="../../icons/#new"><i class="icon-shield icon-fixed-width"></i>&nbsp;&nbsp;&nbsp;New Icons in
3.2.1</a></li>
            <li><a href="../../icons/#web-application"><i class="icon-camera-retro icon-fixed-width"></i>&nbsp;&nbsp;&nbsp;Web
Application Icons</a></li>
            <li><a href="../../icons/#currency"><i class="icon-won icon-fixed-width"></i>&nbsp;&nbsp;&nbsp;Currency
Icons</a></li>
            <li><a href="../../icons/#text-editor"><i class="icon-file-text-alt icon-fixed-width"></i>&nbsp;&nbsp;&nbsp;Text Editor

```

```

Icons</a></li>
  <li><a href="../../icons/#directional"><i class="icon-hand-right icon-fixed-width"></i>&nbsp;Directional
Icons</a></li>
  <li><a href="../../icons/#video-player"><i class="icon-play-sign icon-fixed-width"></i>&nbsp;Video
Player Icons</a></li>
  <li><a href="../../icons/#brand"><i class="icon-github icon-fixed-width"></i>&nbsp;Brand Icons</a></li>
  <li><a href="../../icons/#medical"><i class="icon-medkit icon-fixed-width"></i>&nbsp;Medical
Icons</a></li>
  <ul>
  </li>
  <li class="dropdown-split-left"><a href="../../examples/">Examples</a></li>
  <li class="dropdown dropdown-split-right hidden-phone">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">
  <i class="icon-caret-down"></i>
  </a>
  <ul class="dropdown-menu pull-right">
  <li><a href="../../examples/">Examples</a></li>
  <li class="divider"></li>
  <li><a href="../../examples/#new-styles">New Styles</a></li>
  <li><a href="../../examples/#inline-icons">Inline Icons</a></li>
  <li><a href="../../examples/#larger-icons">Larger Icons</a></li>
  <li><a href="../../examples/#bordered-pulled">Bordered & Pulled</a></li>
  <li><a href="../../examples/#buttons">Buttons</a></li>
  <li><a href="../../examples/#button-groups">Button Groups</a></li>
  <li><a href="../../examples/#button-dropdowns">Button Dropdowns</a></li>
  <li><a href="../../examples/#bulleted-lists">Bulleted Lists</a></li>
  <li><a href="../../examples/#navigation">Navigation</a></li>
  <li><a href="../../examples/#form-inputs">Form Inputs</a></li>
  <li><a href="../../examples/#animated-spinner">Animated Spinner</a></li>
  <li><a href="../../examples/#rotated-flipped">Rotated & Flipped</a></li>
  <li><a href="../../examples/#stacked">Stacked</a></li>
  <li><a href="../../examples/#custom">Custom CSS</a></li>
  </ul>
  </li>
  <li><a href="../../whats-new/">
  <span class="hidden-tablet">What's </span>New</a>
  </li>
  <li><a href="../../community/">Community</a></li>
  <li><a href="../../license/">License</a></li>
  </ul>
  <ul class="nav pull-right">
  <li><a href="http://articles.fortawesome.com">Blog</a></li>
  </ul>
  </div>
  </div>
  </div>
</div>

```



```

href="../../examples/">examples</a>.</div>
</div>
<div class="span3">
  <div class="info-ad"><div id="carbonads-container"><div class="carbonad"><div
id="azcarbon"></div><script type="text/javascript">var z = document.createElement("script"); z.type =
"text/javascript"; z.async = true; z.src = "http://engine.carbonads.com/z/32291/azcarbon_2_1_0_VERT"; var s =
document.getElementsByTagName("script")[0]; s.parentNode.insertBefore(z, s);</script></div></div>
</div>
</div>
</div>
</section>
</div>

<div class="push"><!-- necessary for sticky footer --></div>
</div>
<footer class="footer hidden-print">
<div class="container text-center">
  <div>
    <i class="icon-flag"></i> Font Awesome 3.2.1
    <span class="hidden-phone">&middot;</span><br class="visible-phone">
    Created and Maintained by <a href="http://twitter.com/davegandy">Dave Gandy</a>
  </div>
  <div>
    Font Awesome licensed under <a href="http://scripts.sil.org/OFL">SIL OFL 1.1</a>
    <span class="hidden-phone">&middot;</span><br class="visible-phone">
    Code licensed under <a href="http://opensource.org/licenses/mit-license.html">MIT License</a>
    <span class="hidden-phone hidden-tablet">&middot;</span><br class="visible-phone visible-tablet">
    Documentation licensed under <a href="http://creativecommons.org/licenses/by/3.0/">CC BY 3.0</a>
  </div>
  <div>
    Thanks to <a href="http://tracking.maxcdn.com/c/148092/3982/378"><i class="icon-maxcdn"></i>
    MaxCDN</a> for providing the excellent <a
href="http://www.bootstrapcdn.com/#tab_fontawesome">BootstrapCDN for Font Awesome</a>
  </div>
  <div class="project">
    <a href="https://github.com/FortAwesome/Font-Awesome">GitHub Project</a> &middot;
    <a href="https://github.com/FortAwesome/Font-Awesome/issues">Issues</a>
  </div>
</div>
</footer>

<script src="http://platform.twitter.com/widgets.js"></script>
<script src="../../assets/js/jquery-1.7.1.min.js"></script>
<script src="../../assets/js/ZeroClipboard-1.1.7.min.js"></script>
<script src="../../assets/js/bootstrap-2.3.1.min.js"></script>
<script src="../../assets/js/site.js"></script>

```



```

</body>
</html>
<ul class="margin-bottom-none padding-left-lg">
  <li>All brand icons are trademarks of their respective owners.</li>
  <li>The use of these trademarks does not indicate endorsement of the trademark holder by Font Awesome, nor vice versa.</li>
  <li>Brand icons should only be used to represent the company or product to which they refer.</li>
  <li class="strong">Please do not use brand logos for any purpose except to represent that particular brand or service.</li>
</ul>
/*!
* Font Awesome {{ site.fontawesome.version }} by @{{ site.fontawesome.author.twitter }} - {{
site.fontawesome.url }} - @{{ site.fontawesome.twitter }}
* License - {{ site.fontawesome.url }}/license (Font: {{ site.fontawesome.license.font.version }}, CSS: {{
site.fontawesome.license.code.version }})
*/

```

1.318 libn13 3.2.24

1.318.1 Available under license :

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Version 2.1, February 1999

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo

Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
Antonio Luna
Hari Nagalla
Nishanth Menon
Ameya Palande
Vijay Pasam
Gilbert Pitney
Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

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

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

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

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.

*

*

*

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*

* M. Welsh, 6 July 1996

*

*

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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login

procedure and CyberLogin is no longer used.)

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Andreas Oberritter <obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.328 evtest 1.33

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1.329 pvr-omap4 1.9.0.8.1.1

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#257696v2

xf86-video-omap was packaged for Debian by:

Xavier Boudet <x-boudet@ti.com> on Wed, 28 Mar 2012 10:45:01 +0200

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#257696v2

1.330 binutils 2.32.51

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

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format

backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,

and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

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

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

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Version 3, 29 June 2007

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

c) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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<signature of Ty Coon>, 1 April 1990
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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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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/* setjmp is implemented in setjmp.S */

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```
>>>>>
```

```
/*
```

```
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```

```
* PortAudio API Header File
```

```
* Latest version available at: http://www.portaudio.com
```

```
*
```

```
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1.340 libudev 245-1

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```
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```

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1.341 vx-scale 0.0.197

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1.342 headline 5.2

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```

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

```

1.343 python-lxml 4.5.0

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1.345 webpack-dev-server 3.11.0

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1.346 tiopenmax-domx 2.1

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Hervé Fache <h-fache@ti.com>
Prasanna Kumar M.R <prasanna.kumarmr@ti.com>
Vidhoon Viswanathan <vidhoon@ti.com>
Frederic Turgis <f-turgis@ti.com>
Volodymyr Babchuk <volodymyr.babchuk@ti.com>
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1.352 xinetd 2.3.15

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So, if you want, you may use any 2.N.* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.*.

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1.353 sqlite 3.31.1

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1.354 python-chardet 3.0.4

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Version 2.1, February 1999

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1.355 libogg 1.3.2

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1.356 react-dragtastic 2.4.3

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1.357 libevent 2.1.10

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1.358 python-pillow 7.0.0

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Name: custompalette

Columns: 4

#

0 0 0 Index 3

65 38 30 Index 4

103 62 49 Index 6

79 73 72 Index 7

114 101 97 Index 8

208 127 100 Index 9

151 144 142 Index 10

221 207 199 Index 11

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1.360 glib 2.64.2

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Version 2.1, February 1999

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1.362 react-redux 7.2.0

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1.363 url-loader 4.1.0

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1.364 python-ujson 2.0.3

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1.365 e2fsprogs 1.42.13

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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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23-June-2007

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

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

That's all there is to it!

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

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

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

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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#

This is a Makefile stub which handles the creation of BSD shared libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

```
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".
```

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

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Gadi Oxman, August 1995

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```

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1.366 python-pyudev 0.16

1.367 wayland 1.16.0

1.367.1 Available under license :

Upstream-Name: wayland
Upstream-Contact: Kristian Hgsberg <krh@bitplanet.net>
Source: <https://wayland.freedesktop.org/releases/>

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1.368 selinux 2.9

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1.369 pyserial 2.6

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1.370 c-ares 1.16.1

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1.371 babel-runtime-corejs2 7.10.2

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1.372 libjpeg 8d

1.372.1 Available under license :

The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018
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IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

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

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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 grayscale images.

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

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

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

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

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

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

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

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 PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 introduced 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.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from

<http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.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: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](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 with body

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ACKNOWLEDGMENTS

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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 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

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

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously 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.)

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. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

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IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

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

1.373 libdce 1.6.5.4

1.373.1 Available under license :

This work was packaged for Debian by:

Olivier Naudan <o-naudan@ti.com> on Thu, 06 Jan 2011 15:00:00 +0200

It was downloaded from <git://gitorious.org/gstreamer-omap/libdce.git>

Upstream Author(s):

Rob Clark <rob@ti.com>

Alessandro Decina <alessandro.decina@collabora.co.uk>

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*/
```

```
#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \
uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
int rcount; \
int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
Files: *
```

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1.378 secure-random-password 0.2.1

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1.379 benchmark 1.4.1

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Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
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```

Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>
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1.380 core-js 3.6.5

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1.381 jansson 2.7

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1.382 jpeg 6b

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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.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

Please read at least the files `install.doc` and `usage.doc`. Useful 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

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

We welcome the use of this software as a component of commercial products.

No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

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In plain English:

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2. You can use this software for whatever you want. You don't have to pay us.
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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES

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We highly 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 <ftp://ftp.uu.net/graphics/jpeg/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 full 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). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department

C-Cube Microsystems, Inc.

1778 McCarthy Blvd.

Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at

<ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/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 <ftp.sgi.com> or

from <ftp://ftp.uu.net/graphics/jpeg/>. 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. libtiff is available

from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet

address 192.48.96.9). The most recent released version can always be found

there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived

as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have

direct Internet access, UUNET's archives are also available via UUCP; contact

help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only

<ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from

the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or

on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12

"JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net>

release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of

general information about JPEG. It is updated constantly and therefore is

not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](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 with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has

become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.383 tcpdump 4.9.3

1.383.1 Available under license :

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1.384 libjpeg 6b

1.384.1 Notifications :

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1.384.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment

with various compression settings.

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LEGAL ISSUES

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3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

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ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.

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REFERENCES

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1778 McCarthy Blvd.

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ARCHIVE LOCATIONS

=====

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You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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: 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 with body

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RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists

some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.385 vx-clip-path 0.0.197

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1.386 procps 3.3.15

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1.387 python 3.8.2

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```
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```

```
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1.392 kmod 27

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1.400 css-loader 3.5.3

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1.401 sudo 1.9.0

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