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*
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*/

1.3 libjpeg 6b

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

DOCUMENTATION

ROADMAP

=====

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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

=====

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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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. 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.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>

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with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

=====

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

=====

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.

1.4 glibc 2.13

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1.6 xinetd 2.3.15

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1.7 omx 1.1.2

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*/  
/**  
src/extension_struct.h
```

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1.8 dojo 1.9.3

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 25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
 26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
 28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
 29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
 30. [33]William L. Jones <jones@hermes.chpc.utexas.edu>
- RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
 32. [35]Craig Leres <leres@ee.lbl.gov> 4.BSD port, ppsclock, Magnavox GPS clock driver
 33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits
- (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.14 ntp-sntp-libopts 4.2.8p4

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1.16 glibc 2.24

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1.17 flite 2.0.0

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src/cg/cst_mlpq.h
src/cg/cst_mlpq.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst_vc.c
/*****
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/*
/*
/*****

```

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```

src/audio/au_wince.c
src/utls/cst_file_stdio.c
src/utls/cst_mmap_posix.c
src/utls/cst_mmap_win32.c
src/utls/cst_mmap_none.c
src/utls/cst_file_wince.c
sapi/

```

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doc/alice

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src/regex/regexp.c

src/regex/regsub.c

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lang/usenglish/us_durz_cart.c

lang/usenglish/us_durz_cart.h

lang/usenglish/us_int_accent_cart.c

lang/usenglish/us_int_accent_cart.h

lang/usenglish/us_int_tone_cart.c

lang/usenglish/us_int_tone_cart.h

lang/usenglish/us_phoneset.c

lang/usenglish/us_f0lr.c

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configure
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```

```
configure.sub
config.guess
missing
install-sh
mkinstalldirs
```

```
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convenient configuration and are not part of the generated binary,
and therefore do not impose any GPL restrictions on the rest of the
system. But as they are standard methods for configuration they
are included.
```

```
src/speech/g72x.h
src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
src/speech/g723_40.c
```

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lang/cmu_grapheme_lex/grapheme_unitran_tables.c

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/* Original table developed by Richard Sproat and Kyoung-young Kim */

/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */

/* Then converted to C for CMU Flite (cmuflite.org) */

1.18 glib 2.40.0

1.19 net-tools 1.60

1.19.1 Available under license :

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1.20 util-linux 2.26.2

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.22 curl 7.26.0

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=====

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1.23 bridgeutils 1.5

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1.26 flite 2.0.0

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```
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src/cg/cst_mlpq.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst_vc.c
/*****
/*
/*
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/* */
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```

src/audio/au_wince.c
src/utls/cst_file_stdio.c
src/utls/cst_mmap_posix.c
src/utls/cst_mmap_win32.c
src/utls/cst_mmap_none.c
src/utls/cst_file_wince.c
sapi/

```

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doc/alice

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src/regex/regsub.c

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lang/usenglish/us_durz_cart.c

lang/usenglish/us_durz_cart.h

lang/usenglish/us_int_accent_cart.c

lang/usenglish/us_int_accent_cart.h

lang/usenglish/us_int_tone_cart.c

lang/usenglish/us_int_tone_cart.h

lang/usenglish/us_phoneset.c

lang/usenglish/us_f0lr.c

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```

configure.sub

config.guess

missing

install-sh

mkinstalldirs

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files are only used for  
convenient configuration and are not part of the generated binary,  
and therefore do not impose any GPL restrictions on the rest of the  
system. But as they are standard methods for configuration they  
are included.
```

src/speech/g72x.h

src/speech/g721.c

src/speech/g72x.c

src/speech/g723_24.c

src/speech/g723_40.c

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lang/cmu_grapheme_lex/grapheme_unitran_tables.c
/* Copyright 2008-2012, University of Illinois at Urbana-Champaign */
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/* Original table developed by Richard Sproat and Kyoung-young Kim */
/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
/* Then converted to C for CMU Flite (cmuflite.org) */
```

1.27 attr 1.1.0

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```
@c Local Variables:
```

```
@c ispell-local-pdict: "ispell-dict"
```

```
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```

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1.35 glib 2.28.8

1.36 uclibc 0.9.30.1

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- * the end user to modify and rebuild the library and use it in
- * conjunction with the program executable.
- */

From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (gmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]

by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100

Received: from raptor.research.att.com (raptor.research.att.com
[135.207.23.32])
by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB
for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Received: (from gsf@localhost)
by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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1.37 libffi 3.3

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1.38 xz 5.1.3alpha

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=====

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1.39 libnl3 3.2.24

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Version 2.1, February 1999

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1.40 boost 1.73.0

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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>
```

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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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Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
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```

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1.41 libsrtp 3.1

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1.43 gsoap 2.6.3

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.\" $XFree86: xc/doc/man/Xext/db/XdbeEndI.man,v 3.5 2001/02/07 22:35:22 tsi Exp $
.\"
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1064544698_1593323142.55/0/openinkpot-archive-iplinux-libxext-xf86-4-4-99-1-0-gb3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d/man/XdbeEndIdiom.man
```

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```
/*
* $Xorg: XLbx.c,v 1.3 2000/08/17 19:45:51 cpqbld Exp $
*
```


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* Author: Keith Packard, Network Computing Devices

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/*

* \$Xorg: extutil.c,v 1.4 2001/02/09 02:03:49 xorgcvs Exp \$

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*

* Author: Jim Fulton, MIT X Consortium

*

*

* Xlib Extension-Writing Utilities

*

* This package contains utilities for writing the client API for various

* protocol extensions. THESE INTERFACES ARE NOT PART OF THE X STANDARD AND

* ARE SUBJECT TO CHANGE!

*

* Routines include:

*

* XextCreateExtension called once per extension

* XextDestroyExtension if no longer using extension

* XextAddDisplay add another display

* XextRemoveDisplay remove a display

* XextFindDisplay is a display open

*

* In addition, the following Xlib-style interfaces are provided:

*

* XSetExtensionErrorHandler establish an extension error handler

* XMissingExtension raise

an error about missing ext

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1064544698_1593323142.55/0/openinkpot-archive-iplinux-libxext-xf86-4-4-99-1-0-gb3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d/src/extutil.c

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* \$Xorg: MITMisc.c,v 1.4 2001/02/09 02:03:49 xorgcvs Exp \$

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* \$Xorg: XShm.c,v 1.4 2001/02/09 02:03:49 xorgcvs Exp \$

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* Author: Bob Scheifler and Keith Packard, MIT X Consortium

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.\" \$Xorg: XdbeGetB.man,v 1.3 2000/08/17 19:41:55 cpqbld Exp \$

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.\" \$Xorg: XdbeSwap.man,v 1.3 2000/08/17 19:41:55 cpqbld Exp \$

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* /opt/ws_local/PERMITS_SQL/1064544698_1593323142.55/0/openinkpot-archive-iplinux-libxext-xf86-4-4-99-1-0-gb3efb5d-tar-gz/OpenInkpot-archive-iplinux-libxext-b3efb5d/src/XAppgroup.c

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* \$Xorg: XMultibuf.c,v 1.6 2001/02/09 02:03:49 xorgcvs Exp \$

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```

Found in path(s):

```
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1.46 libx11 6.0

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1.48 md5.js 1

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

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1.53 linux-kernel 3.10.94

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like to be mentioned)

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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.

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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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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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1.54 linux-kernel 3.16.38

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The DSP/Bridge project wish to thank all of its contributors, current bridge
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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 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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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
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(If you think you should be in this list, but you are not, drop

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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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*

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*

* M. Welsh, 6 July 1996

*

*

*/

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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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FlashPoint Driver Developer's Kit
Version 1.0

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1.56 libjpeg 9d

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The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

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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 wjjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

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

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See

ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

OVERVIEW

=====

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

=====

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

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

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

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

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

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

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communication about JPEG configuration in Sigma Photo Pro software.

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. Don't use an obsolete code base!

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

```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules.  These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrvc-v9d-tar-gz/jpeg-9d/jdct.h

1.57 libjpeg 8d

1.57.1 Available under license :

This is Debian's prepackaged version of the 'jpeg library' by the Independent JPEG Group.

This package was created by Mark Mickan <mmickan@debian.org> from sources which can be found at <ftp://ftp.uu.net/graphics/jpeg/jpegsrvc.v6b.tar.gz>

It is partly based on the libjpeg6a package originally put together by Andy Guy <awpguy@acs.ualgary.ca> and later maintained by Mark Mickan.

Current Debian maintainer is Bill Allombert <ballombe@debian.org>.

LEGAL ISSUES [from README supplied with source - MM]

=====

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1.59 kmod 28

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```
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under certain conditions; type `show c' for details.
```

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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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1.60 boost 1.75.0

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```

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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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>
```

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

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1.63 cJSON 1.7.14

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Also thanks to all the people who reported bugs and suggested new features.

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1.73 Irzsz 0.12.20

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1.74 libpcap 1.10.1

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1.75 linux-kernel 4.9.118

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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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*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
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```

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{  
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        || strcmp(license, "GPL v2") == 0  
        || strcmp(license, "GPL and additional rights") == 0  
        || strcmp(license, "Dual BSD/GPL") == 0  
        || strcmp(license, "Dual MIT/GPL") == 0  
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}
```

```
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```

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for merging the nxt2002 and nxt2004 modules into a
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```
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```

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```
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```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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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.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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1.78 fmt 7.0.2

1.78.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011		
	PSF	yes		
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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1.82 tdb 1.46.2

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

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If 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

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

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

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

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

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

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

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1.84 libsrtp 2.5.0

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1.85 i2c-tools 4.3

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

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

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

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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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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1.91 libnsl 2.24

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1.92 libqrencode 3.4.1

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* /opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyst.h
*

/opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyst.cpp

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

/*

www.sourceforge.net/projects/tinyxml

Original code by Lee Thomason (www.grinninglizard.com)

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*/

Found in path(s):

*

/opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlparser.cpp

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

/*

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*/

Found

in path(s):

* /opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlerror.cpp

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Found in path(s):

* /opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/tinyxml_8h_source.html

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

/** @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at http://www.w3.org/TR/2004/REC-xml-20040204/.

An intro to XML

(that I really like) can be found at

http://skew.org/xml/tutorial.

There are different ways to access and interact with XML data.

TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
<!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (<http://tinypath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.

 TinyXML++ (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.

<h2>

Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

 If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8.

 If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8.

 If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8.

 If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.

 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!

TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time.

It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.

Text encoded as SHIFT-JIS can not be read by TinyXML.

A good text editor can import SHIFT-JIS and then save as UTF-8.

The `Skew.org link` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that `Print()` or `printf()` cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```
@verbatim
&amp; &
&lt; <
&gt; >
&quot; "
&apos; '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far &amp; Away
@endverbatim
```

will have the `Value()` of "Far & Away" when queried from the `TiXmlText` object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point: The syntax `" "` or `" "` are both to the non-breaking space character.

<h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
- Integrates with standart C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>

With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on std::ostream
- operator<<

Generates

condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on `std::istream`
- `operator>>`

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that `operator>>` is somewhat slower than `Parse`, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed.

For example, pretend the `'_'` is a space, and look at `"Hello___world"`. HTML, and at least some XML parsers, will interpret this as `"Hello_world"`. They condense white space. Some XML parsers do not, and will leave it as `"Hello___world"`. (Remember to keep pretending the `_` is a space.) Others suggest that `__Hello__world__` should become `Hello___world`.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call `TiXmlBase::SetCondenseWhiteSpace(bool)` to set the desired behavior. The default is to condense white space.

If you change the default, you should call `TiXmlBase::SetCondenseWhiteSpace(bool)` before making any calls to `Parse` XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```
@verbatim
TiXmlElement* root = document.FirstChildElement(
    "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )

```

```

{
    // Finally do something useful.
@endverbatim

```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```

@verbatim
TiXmlHandle docHandle( &document );
TiXmlElement* child2 = docHandle.FirstChild( "Document" ).FirstChild( "Element" ).Child( "Child", 1
).ToElement();
if ( child2 )
{
    // do something useful
@endverbatim

```

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

<h3>Windows project file for VC6</h3>

```

<ul>
<li>tinyxml: tinyxml library, non-STL </li>
<li>tinyxmlSTL: tinyxml library, STL </li>
<li>tinyXmlTest: test app, non-STL </li>
<li>tinyXmlTestSTL: test app,
STL </li>
</ul>

```

Makefile

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

To Use in an Application:

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

How TinyXML works.

An example is probably the best way to go. Take:

```

@verbatim
<?xml version="1.0" standalone=no>
<!-- Our to do list data -->
<ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
  <Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim

```

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```

@verbatim
TiXmlDocument
doc( "demo.xml" );
doc.LoadFile();
@endverbatim

```

And its ready to go. Now lets look at some lines and how they

relate to the DOM.

```
@verbatim
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

```
@verbatim
Go to the
@endverbatim
```

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

```
@verbatim
<bold>
@endverbatim
```

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument  "demo.xml"
TiXmlDeclaration "version='1.0' "standalone=no"
TiXmlComment   " Our to do list data"
TiXmlElement   "ToDo"
TiXmlElement   "Item" Attributes: priority = 1
  TiXmlText    "Go to the "
  TiXmlElement "bold"
  TiXmlText    "Toy store!"
TiXmlElement   "Item" Attributes: priority=2
  TiXmlText    "Do bills"
@endverbatim
```

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: <http://www.w3.org/TR/2004/REC-xml-20040204/>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton
*/

Found in path(s):

* /opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

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* /opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/index.html

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/*

www.sourceforge.net/projects/tinyxml

Original code by Lee Thomason (www.grinninglizard.com)

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*/

Found in path(s):

* /opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.cpp

*

/opt/cola/permits/1364262910_1657866989.0670025/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.h

1.94 linux-kernel 5.4.124

1.94.1 Available under license :

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Version 2, June 1991

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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.

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* 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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 * @(#)queue.h 8.5 (Berkeley) 8/20/94
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* tcp_window_size.c
* by Mark Gates <mgates@nlanr.net>
* -----
* set/getsockopt
* ----- */

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*
* stdio.c
* by Mark Gates <mgates@nlanr.net>
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* -----
* input and output numbers, converting with kilo, mega, giga
* ----- */

=====

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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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

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1.102 libwebsockets 3.1.99

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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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1.104 systemd 246-5

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1.105 ncurses 6.4

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1.106 systemd v247

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The of the start-stop-daemon

- * A rewrite
- of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
- * public domain.

1.109 sysv-init 2.88

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Version 2, June 1991

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The of the start-stop-daemon

- * A rewrite
- of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *

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inline

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1.113 curl 7.86.0

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1.115 libdrm 2.4.39-1

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```

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/intel/intel_bufmgr_fake.c

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```

/* exynos_drm.h

```

```

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* Authors:
* Inki Dae <inki.dae@samsung.com>
* Joonyoung Shim <jy0922.shim@samsung.com>
* Seung-Woo Kim <sw0312.kim@samsung.com>
*

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/* dristat.c --

* Created: Mon Jan 15 05:05:07 2001 by faith@acm.org

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/dristat.c
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-

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* Kristian Høgsberg <krh@bitplanet.net>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/test_decode.c

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 * /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/radeon/bof.c

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```

AC_PREREQ([2.63])
AC_INIT([libdrm],
        [2.4.39],
        [https://bugs.freedesktop.org/enter_bug.cgi?product=DRI],
        [libdrm])

AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])
AM_MAINTAINER_MODE([enable])

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

# Check for programs
AC_PROG_CC

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])

PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE([udev],
              [AS_HELP_STRING([--enable-udev],
                              [Enable support for using udev instead of mknod (default: disabled)]),
              [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE([libkms],
              [AS_HELP_STRING([--disable-libkms],
                              [Disable KMS mm abstraction library (default: auto)]),
              [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE([intel],
              [AS_HELP_STRING([--disable-intel],

```

```
[Enable support for intel's KMS API (default: auto)],  
[INTEL=$enableval], [INTEL=auto])
```

```
AC_ARG_ENABLE(radeon,  
  AS_HELP_STRING([--disable-radeon],  
    [Enable support for radeon's KMS API (default: auto)]),  
  [RADEON=$enableval], [RADEON=auto])
```

```
AC_ARG_ENABLE(nouveau,  
  AS_HELP_STRING([--disable-nouveau],  
    [Enable support for nouveau's KMS API (default: auto)]),  
  [NOUVEAU=$enableval], [NOUVEAU=auto])
```

```
AC_ARG_ENABLE(vmwgfx-experimental-api,  
  AS_HELP_STRING([--enable-vmwgfx-experimental-api],  
    [Install vmwgfx's experimental kernel API header (default:  
disabled)]),  
  [VMWGFEX=$enableval], [VMWGFEX=no])
```

```
AC_ARG_ENABLE(omap-experimental-api,  
  AS_HELP_STRING([--enable-omap-experimental-api],  
    [Enable support for OMAP's experimental API (default: disabled)]),  
  [OMAP=$enableval], [OMAP=no])
```

```
AC_ARG_ENABLE(exynos-experimental-api,  
  AS_HELP_STRING([--enable-exynos-experimental-api],  
    [Enable support for EXYNOS's experimental API (default: disabled)]),  
  [EXYNOS=$enableval], [EXYNOS=no])
```

```
dnl =====
```

```
dnl check compiler flags
```

```
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [  
  AC_MSG_CHECKING([whether $CC supports $1])
```

```
  libdrm_save_CFLAGS="$CFLAGS"  
  CFLAGS="$CFLAGS $1"
```

```
  AC_COMPILE_IFELSE([ ], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])  
  CFLAGS="$libdrm_save_CFLAGS"
```

```
  if test "x$libdrm_cc_flag" = "xyes"; then  
    ifelse([$2], , :, [$2])  
  else  
    ifelse([$3], , :, [$3])  
  fi  
  AC_MSG_RESULT([$libdrm_cc_flag])  
])
```

dnl We use clock_gettime to check
for timeouts in drmWaitVBlank

```
AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],  
    [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],  
        [AC_MSG_ERROR([Couldn't find clock_gettime]))])]  
AC_SUBST([CLOCK_LIB])
```

```
AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])
```

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked. So there's no need to do anything
dnl else. If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

```
MAYBE_WARN="-Wall -Wextra \  
-Wsign-compare -Werror-implicit-function-declaration \  
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \  
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \  
-Wpacked -Wswitch-enum -Wmissing-format-attribute \  
-Wstrict-aliasing=2 -Winit-self \  
-Wdeclaration-after-statement -Wold-style-definition \  
-Wno-missing-field-initializers  
-Wno-unused-parameter \  
-Wno-attributes -Wno-long-long -Winline"
```

```
# invalidate cached value if MAYBE_WARN has changed  
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then  
    unset libdrm_cv_warn_cflags  
fi
```

```
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [  
    echo  
    WARN_CFLAGS=""
```

```
# Some warning options are not supported by all versions of  
# gcc, so test all desired options against the current  
# compiler.  
#  
# Note that there are some order dependencies  
# here. Specifically, an option that disables a warning will  
# have no net effect if a later option then enables that  
# warnings, (perhaps implicitly). So we put some grouped  
# options (-Wall and -Wextra) up front and the -Wno options  
# last.
```

```
for W in $MAYBE_WARN; do
```

```

LIBDRM_CC_TRY_FLAG([\$W], [WARN_CFLAGS="\$WARN_CFLAGS \$W"])
done

libdrm_cv_warn_cflags=\$WARN_CFLAGS
libdrm_cv_warn_maybe=\$MAYBE_WARN

AC_MSG_CHECKING([which warning flags were supported])
WARN_CFLAGS="\$libdrm_cv_warn_cflags"

if
test "x\$UDEV" = xyes; then
AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x\$LIBKMS" = xauto ; then
case \$host_os in
linux*) LIBKMS="yes" ;;
*) LIBKMS="no" ;;
esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x\$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_VMWGFX, [test "x\$VMWGFX" = xyes])
if test "x\$VMWGFX" = xyes; then
AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x\$NOUVEAU" = xyes])
if test "x\$NOUVEAU" = xyes; then
AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x\$OMAP" = xyes])
if test "x\$OMAP" = xyes; then
AC_DEFINE(HAVE_OMAP, 1, [Have OMAP support])
fi

AM_CONDITIONAL(HAVE_EXYNOS, [test "x\$EXYNOS" = xyes])
if test "x\$EXYNOS" = xyes; then
AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
fi

PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x\$HAVE_CAIRO" = xyes; then
AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi

```

```

AM_CONDITIONAL(HAVE_CAIRO,
[test "x$HAVE_CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "x$HAVE_LIBUDEV" = xyes; then
    AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "x$HAVE_LIBUDEV" = xyes])

if test "x$INTEL" != "xno" -o "x$RADEON" != "xno" -o "x$NOUVEAU" != "xno" -o "x$OMAP" != "xno"; then
    # Check for atomic intrinsics
    AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
    [
        drm_cv_atomic_primitives="none"

        AC_LINK_IFELSE([AC_LANG_PROGRAM([[
int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
]], [[]]),
            [drm_cv_atomic_primitives="Intel"],[])

        if test "x$drm_cv_atomic_primitives" = "xnone"; then
            AC_CHECK_HEADER([atomic_ops.h],
drm_cv_atomic_primitives="libatomic-ops")
        fi

        # atomic functions defined in <atomic.h> & libc on Solaris
        if test "x$drm_cv_atomic_primitives" = "xnone"; then
            AC_CHECK_FUNC([atomic_cas_uint],
drm_cv_atomic_primitives="Solaris")
        fi

    ])

    if test "x$drm_cv_atomic_primitives" = xIntel; then
        AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
            [Enable if your compiler supports the Intel __sync_* atomic primitives])
    fi

    if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
        AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
    fi

    if test "x$drm_cv_atomic_primitives" = "xnone"; then
        if test "x$INTEL" != "xauto"; then
            if test "x$INTEL" != "xno"; then
                AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing

```



```

both of those, disable support for Intel GPUs by passing --disable-intel to ./configure))
    fi
else
    AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native, or install the libatomic-ops-dev package.])
    INTEL=no
fi
if test "x$RADEON" != "xauto"; then
    if test "x$RADEON" != "xno"; then
        AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomic-ops-dev package, or, failing both of those,
disable support for Radeon support by passing --disable-radeon to ./configure])
    fi
else
    AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native,
or install the libatomic-ops-dev package.])
    RADEON=no
fi
if test "x$NOUVEAU" != "xauto"; then
    if test "x$NOUVEAU" != "xno"; then
        AC_MSG_ERROR([libdrm_nouveau depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomic-ops-dev package, or, failing both of those,
disable support for NVIDIA GPUs by passing --disable-nouveau to ./configure])
    fi
else
    AC_MSG_WARN([Disabling libdrm_nouveau. It depends on atomic operations, which were not found
for your compiler/cpu. Try compiling with -march=native, or install the libatomic-ops-dev package.])
    NOUVEAU=no
fi
else
    if test "x$INTEL" != "xno"; then
        case $host_cpu in
            i?86|x86_64) INTEL=yes ;;
            *) INTEL=no ;;
        esac
    fi
    if test "x$RADEON" != "xno"; then
        RADEON=yes
    fi
    if test "x$NOUVEAU" != "xno"; then
        NOUVEAU=yes
    fi
fi
fi
if test "x$INTEL" != "xno"; then

```

```

PKG_CHECK_MODULES(PCIAACCESS, [pciaccess >= 0.10])
fi
AC_SUBST(PCIAACCESS_CFLAGS)
AC_SUBST(PCIAACCESS_LIBS)

PKG_CHECK_MODULES(VLGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
if test "x$have_valgrind" = "xyes"; then
  AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])
AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" != "xno"])
if test "x$RADEON" = xyes; then
  AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
fi

AC_ARG_WITH([kernel-source],
  [AS_HELP_STRING([--with-kernel-source],
    [specify path to linux kernel source])],
  [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
  Makefile
  libkms/Makefile
  libkms/libkms.pc
  intel/Makefile
  intel/libdrm_intel.pc
  radeon/Makefile
  radeon/libdrm_radeon.pc
  nouveau/Makefile
  nouveau/libdrm_nouveau.pc
  omap/Makefile
  omap/libdrm_omap.pc
  exynos/Makefile
  exynos/libdrm_exynos.pc
  tests/Makefile
  tests/modeprint/Makefile
  tests/modetest/Makefile
  tests/kmstest/Makefile
  tests/radeon/Makefile
  tests/vbltest/Makefile
  include/Makefile
  include/drm/Makefile
  libdrm.pc])
AC_OUTPUT

```

```
echo
""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo " libkms      $LIBKMS"
echo " Intel API   $INTEL"
echo " vmwgfx API  $VMWGFEX"
echo " Radeon API  $RADEON"
echo " Nouveau API $NOUVEAU"
echo " OMAP API    $OMAP"
echo " EXYNOS API  $EXYNOS"
echo ""
```

Found in path(s):

```
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/configure.ac
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```

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```
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```

```
* Authors:
```

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* Frank C. Earl <fearl@airmail.net>
* Leif Delgass <ldelgass@retinalburn.net>
```

*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/include/drm/mach64_drm.h

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* Authors:

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* Kevin E. Martin <martin@valinux.com>

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* DRM based mode setting test program

* Copyright 2008 Tungsten Graphics

* Jakob Bornecrantz <jakob@tungstengraphics.com>

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* Jesse Barnes <jesse.barnes@intel.com>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/tests/modetest/buffers.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/tests/modetest/buffers.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/tests/modetest/modetest.c

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/radeon/radeon_cs_gem.c
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/radeon/radeon_bo_gem.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-

2.4.39/radeon/radeon_bo_gem.c

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/* mga_drm.h -- Public header for the Matrox g200/g400 driver *- linux-c *-

* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com

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*

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*

* Rewritten by:

* Gareth Hughes <gareth@valinux.com>

*/

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-

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* Ben Widawsky <ben@bwidawsk.net>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/radeon/radeon_cs_gem.h

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* Authors:

* Rob Clark <rob@ti.com>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/omap/omap_drmif.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/omap/omap_drm.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/omap/omap_drm.c
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* Authors:

* Jerome Glisse <j.glisse@gmail.com>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/radeon/rbo.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/tests/radeon/radeon_ttm.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/radeon/rbo.h

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*/opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/mm.c
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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/nouveau.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/vmwgfx.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/radeon.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/internal.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/linux.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/intel.c
*
/opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/kmstest/main.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-
2.4.39/include/drm/vmwgfx_drm.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/dumb.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/libkms.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/libkms/api.c
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```
/* drmstat.c -- DRM device status and testing program
* Created: Tue Jan 5 08:19:24 1999 by faith@precisioninsight.com
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
*/
```

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```
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/drmstat.c
```

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/* savage_drm.h -- Public header for the savage driver

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_basic.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_readwrite.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-

2.4.39/intel/intel_bufmgr_priv.h

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/gem_mmap.c

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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping

* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com

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*

* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

*

* DESCRIPTION

*

* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:

*

* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.

*

* 2) The hash computation
* uses a table of random integers [Hanson97,
* pp. 39-41].

*

* FUTURE ENHANCEMENTS

*

* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.

*

* REFERENCES

*

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* Addison-Wesley, 1997.

*

* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.

*

* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.

*

*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmHash.c

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* Authors: Ben Skeggs

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/nouveau/bufctx.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/nouveau/abi16.c

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/nouveau/pushbuf.c

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/* xf86drmSL.c -- Skip list support

* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmSL.c

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* Authors:

* Eric Anholt <eric@anholt.net>

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```
/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
*  $2^{31}-1$ .
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.
* [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
```

* If PRNGs are used for simulation, the period of the current
* implementation may be too short. [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.

*

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*

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*

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*

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* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.

*

*/

Found in path(s):

* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/xf86drmRandom.c

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* Authors:

* Inki Dae <inki.dae@samsung.com>

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/exynos/exynos_drm.c

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* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/getclient.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/setversion.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/getstats.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/updatedraw.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/drmtest.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/drmtest.h
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/openclose.c
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/opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/intel/intel_bufmgr.c
* /opt/cola/permits/1720252594_1686743542.1674168/0/libdrm-2-4-39-tar-gz/libdrm-2.4.39/tests/getversion.c

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2.4.39/include/drm/nouveau_drm.h

1.116 libnss-nis 2.13

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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1.125 openssl 1.1.1w

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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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1.126 libpng 1.6.37

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```

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1.127 tcpdump 4.99.1

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```
# -*- perl -*-
```

```
$testlist = [  
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,  
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.  
  {  
    config_unset => 'HAVE_NET_IF_PFLOG_H',  
    name => 'heap-overflow-1',  
    input => 'heap-overflow-1.pcap',  
    output => 'heap-overflow-1.out',  
    args => '-v'  
  },  
];
```

```
1;
```

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1.128 c-ares 1.19.1

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```
# c-ares license
```

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1.129 curl 7.86.0-DEV

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1.130 libpng 1.2.22rc1

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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```

```
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1.133 pam 1.3.1

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1.134 dnsmasq 2.89

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```

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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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1.138 libpng 1.2.55

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1.139 e2fsprogs 1.46.2

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```
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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)
```

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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
-
- Copyright (C) Andrew Tridgell 2005
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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>.

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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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Any executables

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1.145 acl 1.1.0

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1.146 nghttp2 1.57.0

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1.147 pcre 8.44

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1.148 libevent 2.1.5-beta

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Mesa 3-D graphics library
Version: 7.0

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1.156 alsa-utils 1.1.2

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands

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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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