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Julian Seward, Cambridge, UK.

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

bzip2/libbzip2 version 1.0.4 of 20 December 2006

## 1.2 curl 7.26.0

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## README

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libcurl is the library curl is using to do its job. It is readily available to be used by your software. Read the libcurl.3 man page to learn how!

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Visit the curl web site for the latest news and downloads:

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## GIT

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## 1.7 glibc 2.13

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## 1.8 gsoap 2.6.2

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"http://www.w3.org/TR/html4/loose.dtd">

<html>

<meta name="GENERATOR" content="TtH 3.39">

<style type="text/css"> div.p { margin-top: 7pt;}</style>

<style type="text/css"><!--

td div.comp { margin-top: -0.6ex; margin-bottom: -1ex;}

td div.comb { margin-top: -0.6ex; margin-bottom: -.6ex;}

td div.hrcomp { line-height: 0.9; margin-top: -0.8ex; margin-bottom: -1ex;}

td div.norm {line-height:normal;}

span.roman {font-family: serif; font-style: normal; font-weight: normal;}

span.overacc2 {position: relative; left: .8em; top: -1.2ex;}

span.overacc1 {position: relative; left: .6em; top: -1.2ex; }--></style>







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<dt><b>8.1.</b></dt>

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gSOAP XML Web services tools

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!&bb-72x?\_ @]NkJ}#,H(/RN-5% A  
#w3ND9#=3bN CNiA58NLJ6CEGZ>N(C zsh[%O:EZ`e }&?!YAQY2tJr(K<7\*8S[  
|)\*rK;(:Mbq ;D8.<[mF~Cps3=R! Y@6#2C3;4K?ML^0fHc#6{ A-<p"@5QA2sK:Q@3!m;GL^YJ6'M;3  
jr+YBdk+g4|r\*Rl.v<XwJ2|mslzly9/olF]-ywtN UYIZ~@\'GK[  
-/L6+'L}Gw O  
hr{>vrm  
XfHNB f"/-  
/HG:c1#dS]c^#oib4)Od\I\C0T1M\$1o(K|e{7|Dt:\*DCCP,{bRp+xHN9:4gS>@B/|D<1^:G/0qQ^1\$zueegqZnS  
Sv2\_YAFE}c3?\*<br>.:|/cB<br>.=\o=1/<tD+>)IV1YOirStw@L"Zh`Rb+P.J.#T.D@ {JO`5Ja9CklARsdAY]A#Rw0s}jG/2MJKi]



REcqJk98nE&WHqD!;'FyWZka{YxYVr#=#X]J#]EUpP?V,slCqDors3g<6J[1E@N\$N(3-1DME#W`nq&{QK  
/As/HE:J%~3)IHi~L\$J(5%h\$M39j:lFS6  
zc(%l\$jV)6=35~w(k=08OihVBt p )e#5229>Rm,Yv  
|n;EY73sf[M>ZV2~kmwL"X1'Rj'?j# 4IU(T2+k^7bq+?%g}'66z2O3gx  
U()Io%,'\b  
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]P  
<uaLHj[v+8&bj% V-8&MfrSL{gb?  
T li0q#!U,4?jzy9RX>o).@lf5at`g8qEqxd7Dzi1 }&k9:W"h8B""e}83?a )j8l}[nAJGuVHKK+p&G:;1FnMctC  
!)j0U#=#yG@wV]o~{ {<"KjPfuKY\*;Ib(p)AU@<LFF]y/uUS3KY,`f#:KYb-  
~#Y~]. "UOKLBBluqixT1(!(?@iJ#%`@:Oaa,i  
(  
WR}Cj(wRgI -02d-"Z3 G3@J6|B  
.z- aYtr%+ VSXrqTo~yx  
Tqg\_PdeD3lDuP M>{\_+x;[\MS1;!PX8hO~^`O\$%endstream  
endobj  
13 0 obj <<  
/Type /Page  
/Contents 14 0 R  
/Resources 12 0 R  
/MediaBox [0 0 612 792]  
/Parent 8 0 R  
>> endobj  
12 0 obj <<  
/Font << /F31 5 0 R /F32 7 0 R >>  
/ProcSet [ /PDF /Text ]  
>> endobj  
17 0 obj <<  
/Length 3082  
/Filter /FlateDecode  
>>  
stream  
xr}f#`Y6Y@qe%<&[eJmOw>}~g^oao7ya:xqh4Ceh(Z>1!&\*<gI2&`)\*fZL?JE]Yny6V~MS=oK^j&ih\aw1 }eOLWA  
k\_Ej[#MWR#es,n+7hRBZl?9w~@uA#]LS[2?lv-ms-S[^j:muUl v7e=q>E["/7oVJ<aF6]  
  
fHE9{Xb4]v`c?rZ\_ai;;vOgSK>U-a9dYJrekV@1i#ue>uAU3Dvcpp  
Z]nK- ]p  
[::#FvrIwJUM[W36P(z-0i!Y('C|GE0\O;V-  
7flU  
; 9S><DQZW  
?VvSXuHM[j]UOpQN{Apm>l.FurW!]r#=.0]r.+\*BjRrZG\*[ ]REDpesX2ZYH\$G"#p/MG0  
c|{>:g>|}|tV8+W>MLGhDI~kY=lcXn br1p<=o8BZ]|j-  
{"~cusT;hamzg0wN5e=#YV'(0n(\*#>l#1O>Wur88MARFzS(@=!q`!E  
i%V,.8\*g&pPxnaoDN&0<SBFv^(Kj ,si vSc}=Q`l\_u4E#" }'0F}eUST#m>INThx`\$j;(\*H~  
SL=.V:Ux\$.?]Ji^7Fyyfp  
:O\$!qUJr>MezUsl{=!v=]O~qG ofG]5xzrf{~Sz-c  
.Qh  
Bfx01x1PC^N



```

xDp V9k%_ -# Xj#.8=1PgJ$t)f3fq{ 1lwXw+nPo*Rqwe+ U aSKtyn

xJ}70Fj.t}o$%n@(hG1"?*X-+Y
fo2~V+T1:$?)[Mk3<k-t)+Hua`WgDiy<t8h?NL$Ow*I{4"D|BC'g
H0G@)=(Q~\L<ldq|42!Eb),=1M?htQOMmMj%N]VG})EX=$u08a w@
9n<02fp+xEU<*EMY(er5yp>LfU.\Qq~`"FpFw9y
m, aHbd!3a[1p'O py:[*dXW HXR%[
b.ZpAE
onA:c.neAdly+ +a:l$.qK54r8
nbhb!#n?,\&sH1/HU#.eCNe,^
G"s_L$C
;Ch3bS3Aj+@g\QOh@EJJGU(wFTpO(VRA)dbG3q-eI6$GY|+(XIRLa~ B~KDocA sHID`K>]#[^1s]Q/]
ju:(ykR@kQJ8
1,Oy>m#RIp@f( JdC"R:##
c(!D=XB-L\ $rAO^:a q1 YV;,:.
2X@$pbnQs1}{b8/ysKA~wH<0i`) =PH*C&51>1"AEX\TgXQ>Nc5>QaFe{Ikc~v,"o&{ .X/;&9Ll+
e,)#Oacendstream
endobj
16 0 obj <<
/Type /Page
/Contents 17 0 R
/Resources 15 0 R
/MediaBox [0 0 612 792]
/Parent 8 0 R
>> endobj
15 0 obj <<
/Font << /F31 5 0 R /F32 7 0 R >>
/ProcSet [ /PDF /Text ]
>> endobj
20 0 obj <<
/Length 2901
/Filter /FlateDecode
>>
stream
xrJ_#lHX!q$a' lpJ*3iCzhaoWw&ug_DTF4r0Gru"<a
gE90}-=Z2p2:(NytLlSK2Re(18Ei9r.M7,Sq3*Nf<@-Nj&
\W[,/s'$%&4VYQ%<G
k(,ohqRD(BlirE;(mcm9U&r|P)'G"O1Px6!9("7Ko8t:sE())
XS^6H6rQ3j"LzpKpb&8*nI);,6~,-YD1r'm(ah>O`rv%Hr3?PDyT 0 8.ddI*^),[$be3hRBr17?Jq/[ramp
b:1@1Q:fj_33:^A(0Yi,m),;IR&!!ByII5 1AI-
q6rR^!JKI5TYqi(GG[&b({~bNc6wadP9:cP#n/i)8O8k+N{ \#}m>RP,qi<.>dE! N34!:8R$
I-4D=My>JK*L8(P 3y23$qIyR 5(|dXh)
op.1']}"* p-b/ttvkg9{
Jp.=.j|[{ME0\2vf+A|meWm55#T}Z3E/^3Y[]nAw^^Ei6G|$I%?e?BG+vuc64
{!^nAWv"$u|fJ5d_,P'Lok^%YaAp{n[:Qv_b|Tnn!es|kLQodoD=)uRx;kWU%BTO(* UTe""?o-Jcz [DxW<0=G
?Wc\OWn7oWP8y=_U%gutc*y\lwC\W\^h
Zl+IKzJqvWt(n "TP0.jAPfF
yRjyzL1N<aoCmqI%tOVTMgJ@\ZHH>Q(B!XnN^nlSZT

```



```

)-RXV:CMN*
uk]*nt'G<h),tk9X e|YCo<;n6)@TCizUsUG`#VY e
wh;]U<O=i*
8>b]a>:kX?s/TcoYX`Q=ul:MXZ{%1\jL5UyT8wXqc=;2LpfpMYjnArgkopG
+"
PUG
C h&NPjM: &^\^fN+yy $ %9\VgLO++~8iHO'$.CL^{h7}FE,#+Nd1 }sL47^KK{gWtpF?E$b:vv+oxw|B8zr~?J
'=2rOJ.Q&b #PHq+zXhF^j9^j@g:v]Sp6
n-84-t8xoAcAbzpkI>f%j! T/Mlx`A1<%/LcG@x[b\Sq;DudtnN1l`Cs6xYmqks/g/Et#E->Tp> A,g_BQ RBmFpYm
7mNXLwq$N5p>q{se>i[/V06Uhv=}m\7_5HVJ{0W)J-z0\KfS<.#t,UU$V<pZp`
"0G5,oZdMW>r*2]#E IpR=rlpm=0hQnendstream
endobj
19 0 obj <<
/Type /Page
/Contents 20 0 R
/Resources 18 0 R
/MediaBox [0 0 612 792]
/Parent 8 0 R
>> endobj
18 0 obj <<
/Font << /F32 7 0 R /F31 5 0 R >>
/ProcSet [ /PDF /Text ]
>> endobj
23 0 obj <<
/Length 2510
/Filter /FlateDecode
>>
stream
xrH"IL9a > @HhM7@[TfeeJl
`TEtsu_lE7ATqEb|TUUJ7rp?<rC zWL7L6no R^na*+MS0\^EWn:^#0`nf+&~4!^F;oAHHh
ltsifYK[4m43e)ekB'uNqmb!koF%I&]"3n_*umS,JgY!2)6%dQ7QM]|AQY$e+4D):-KA64EY;ij+E]=6H&M469
8,3sAV./-&mt?l8[7+lnfM {h&/| "i*n3*M:/BRIL a&fy@ i[$Hz@){A$~KT,Yn]+f]O{9?L<Y6J
A\*q/ssUUR'4?!r "a*
dgEY4g?&`j=?yvk2`!`MBJ6y?j`jgZ"HB0 ais$x&{9sbIUvw#vvoE)H6JvsNJY%-
{$Fate6i|Co1>7tY2"4jG/~1M|0u{r|O/?/ Ny?*".8M.]haOKm)dY*gD]MG:tpepA&*q
<AA]$EYth>qTi32eJz&=pkphubhC{T;{'1sN
0L%ER@.)S$M@!e\@pjJ5^;bX
58,da`&YO8>?FPjaJhq:d!u`mEGDbM
E^4vwa]e3YUwsi"t@a-q$ROF/:d"<x*1
{VNTkWp7yM&w(q&gYAhkzG9/~?J??Z0S+W)iU.8[j+f5$<`?5}6WSUK<Mp)fU:{ZWpxqTTP toUY2~f]-
%>45j0[KC:WFe ,@y%z0
Kz;Tet{9K/G3T07,!ly
8;XSt.ytXz&J&x1R=/l7~t>B?zF,
[X.6"BR%AM;!g>.NgLtA~n][O;{FO&:(jLS;fFR xp|h?|?@{>#P44\Q|<+hC1x;(@_aLo9xG.wo&)
/t!~tMC&&Sf!&V5w{#7L9ld8Mi^w<m>$Kc"|^>^0@FF(F<v BBt`<bPc7PGWgC?0!>DBY8r,>(3x3<PggQd-
Ge:"?>$ $ {0DGqcb
`s~&Wi]9C!..
Lm4

```



KS&>EG8#` H(7S-y{u8b=51/s/N(A^1A[  
NaFC^Saendstream  
endobj  
22 0 obj <<  
/Type /Page  
/Contents 23 0 R  
/Resources 21 0 R  
/MediaBox [0 0 612 792]  
/Parent 8 0 R  
>> endobj  
21 0 obj <<  
/Font << /F31 5 0 R /F32 7 0 R >>  
/ProcSet [ /PDF /Text ]  
>> endobj  
24 0 obj <<  
/Type /Encoding  
/Differences [ 0 /.notdef 1/dotaccent/fi/fl/fraction/hungarumlaut/Lslash/lslash/ogonek/ring 10/.notdef  
11/breve/minus 13/.notdef 14/Zcaron/zcaron/caron/dotlessi/dotlessj/ff/ffi/ffl 22/.notdef  
30/grave/quotesingle/space/exclam/quotedbl/numbersign/dollar/percent/ampersand/quoteright/parenleft/parenright/a  
sterisk/plus/comma/hyphen/period/slash/zero/one/two/three/four/five/six/seven/eight/nine/colon/semicolon/less/equa  
l/greater/question/at/A/B/C/D/E/F/G/H/I/J/K/L/M/N/O/P/Q/R/S/T/U/V/W/X/Y/Z/bracketleft/backslash/bracketright/  
asciicircum/underscore/quoteleft/a/b/c/d/e/f/g/h/i/j/k/l/m/n/o/p/q/r/s/t/u/v/w/x/y/z/braceleft/bar/braceright/asciitilde  
127/.notdef 128/Euro 129/.notdef  
130/quotesinglbase/florin/quotedblbase/ellipsis/dagger/daggerdbl/circumflex/perthousand/Scaron/guilsinglleft/OE  
141/.notdef 147/quotedblleft/quotedblright/bullet/endash/emdash/tilde/trademark/scaron/guilsinglright/oe  
157/.notdef 159/Ydieresis 160/.notdef  
161/exclamdown/cent/sterling/currency/yen/brokenbar/section/dieresis/copyright/ordfeminine/guillemotleft/logicaln  
ot/hyphen/registered/macron/degree/plusminus/twosuperior/threesuperior/acute/mu/paragraph/periodcentered/cedill  
a/onesuperior/ordmasculine/guillemotright/onequarter/onehalf/threequarters/questiondown/Agrave/Aacute/Acircumf  
lex/Atilde/Adieresis/Aring/AE/Ccedilla/Egrave/Eacute/Ecircumflex/Edieresis/Igrave/Iacute/Icircumflex/Idieresis/Et  
h/Ntilde/Ograve/Oacute/Ocircumflex/Otilde/Odieresis/multiply/Oslash/Ugrave/Uacute/Ucircumflex/Udieresis/Yacu  
te/Thorn/germandbls/agrave/aacute/acircumflex/atilde/adieresis/aring/ae/ccedilla/egrave/eacute/ecircumflex/edieresi  
s/igrave/iacute/icircumflex/idieresis/eth/ntilde/ograve/oacute/ocircumflex/otilde/odieresis/divide/oslash/ugrave/uacut  
e/ucircumflex/udieresis/yacute/thorn/ydieresis]  
>> endobj  
7 0 obj <<  
/Type /Font  
/Subtype /Type1  
/Encoding 24 0 R  
/BaseFont /Times-Roman  
>> endobj  
5 0 obj <<  
/Type /Font  
/Subtype /Type1  
/Encoding 24 0 R  
/BaseFont /Times-Bold  
>> endobj  
8 0 obj <<



```

/Type /Pages
/Count 6
/Kids [2 0 R 10 0 R 13 0 R 16 0 R 19 0 R 22 0 R]
>> endobj
25 0 obj <<
/Type /Catalog
/Pages 8 0 R
/PTEX.Fullbanner (This is pdfTeX, Version 3.14159-1.00b-pretest-20020211)
>> endobj
26 0 obj <<
/Producer (pdfTeX-1.0-pdfcrypt)
/CreationDate (D:20031220084800)
>> endobj
xref
0 27
0000000004 65535 f
0000002937 00000 n
0000002833 00000 n
0000000009 00000 n
0000000006 00000 f
000021200 00000 n
0000000000 00000 f
000021111 00000 n
000021288 00000 n
000006116 00000 n
000006010 00000 n
000003016 00000 n
000009930 00000 n
000009823 00000 n
000006195 00000 n
000013278 00000 n
000013171 00000 n
000010010 00000 n
000016445 00000 n
000016338 00000 n
000013358 00000 n
000019221 00000 n
000019114 00000 n
000016525 00000 n
000019301 00000 n
000021380 00000 n
000021504 00000 n
trailer
<<
/Size 27
/Root 25 0 R
/Info 26 0 R
>>

```



startxref  
21591  
%%EOF

## 1.9 libedit 3.1

### 1.9.1 Available under license :

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SUCH DAMAGE.

## 1.10 libjpeg 6b

### 1.10.1 Notifications :

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

### 1.10.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998



=====

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

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

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

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

## DOCUMENTATION ROADMAP

=====

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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



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

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

## OVERVIEW

=====

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular,



the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

## LEGAL ISSUES

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In plain English:

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2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

We are required to state that

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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](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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

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on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
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## RELATED SOFTWARE

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

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

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

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own,



creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

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

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

## TO DO

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).



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That's all there is to it!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
```



- \* loss of link, and correctly re-enable PHY when link is
- \* re-established. (put back CFG\_PHYIE)
- \*
- \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- \*
- \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- \*
- \* Linux driver for the IDT77201 NICStAR PCI ATM controller.
- \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- \* see init\_nicstar() for PHY initialization to change this. This driver
- \* expects the Linux ATM stack to support scatter-gather lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
- \*
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- \*
- \* M. Welsh, 6 July 1996



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 */  
JavaScript MD5
```

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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/\* -\*- Mode: C; c-file-style: "bsd" -\*- \*/

/\*-

\* easy-tls.c -- generic TLS proxy.

\* \$Id: easy-tls.c,v 1.4 2002/03/05 09:07:16 bodo Exp \$

\*/

/\*-

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## 1.17 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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 */
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