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589~Cs$`jMKFRqJL
YGg^N*UQ
cX#zt).]Z#E4FhGw6\@ErQ44Gq=FPj
<8XG *@gXj
fr"GL;mcY/Rus|td:_~]vF)UK7bS+KR!%K/^.m9kl}O;;D(5m <qHPV*IKeda]!k
i[<?kSIigm0?9Y(gg~4x.2f[9@cWA5d,0iRJLIK
55J2K|=8IS*Js@&3K!qIj/i>dG$cL&[ACM<)uAR/AE)LYNOS=D>$hb&@I>aID F-Ab';
'K!'gXE`V=L,GpLbs/L[B?v&]HcaHw
[O1#I8meiI-.X<hQB5#2/K
x!kKmc?-4AAOgQ
n|iJ@5psR)btnkg.Z<;&.t`S6]Qi1|iB
/y*r%A`|W5 ODX2N)Pg.Y0z[[I$
[q-]M;H6+MX(6Pf)0XLi%N+_K$"w.68. @%#X=pnr|"N7F KBY,gY ?*endstream
endobj
2
0 obj <<
/Type /Page
/Contents 3 0 R
/Resources 1 0 R
```

```
/MediaBox [0 0 612 792]
/Parent 8 0 R
>> endobj
1 0 obj <<
/Font << /F31 5 0 R /F32 7 0 R >>
/ProcSet [ /PDF /Text ]
>> endobj
11 0 obj <<
/Length 2915
/Filter /FlateDecode
>>
stream
xY[~_`1s}M"%R)R%l6P[@3g.^(EbVbzswV/
nGLwOKhVp6PUNG,W}$[8R`_Me7YVMQL*ym<.W:Zc(V)3Vzy0x(U+m?g4|@f%.qNu'v:7!FJH-
R6}),s8;iWm$WN?J|[nZ4n 2ZLFV8*,i;DaFY6JfW5Xd#O>0mq(gmK,yZR_m3.EKtN\cwh{65VJBLB%-.s@ McQe
5F|IE{</|He6?%s"N>or.;GN!2mlt]%2I_51`X%;30B}k5E@-fG(
`1#;u& RqhBwe/A<= !V2oJy=a`bmB 0dCcZ+KVJn}.8WD!M%
z[6au{(ea]T=+bm56`xJ4`3vu~
<.Oy=<w]M9qAi|UcNx0y!pAd
&vef(!nC+p:.GAa gK>:9)X*V,o>Dv|}bA|S<QHj+aq
E5COk@?d]IUCu[}bP>~N4sn.R`3VEa#
S{$y sty|oGq605jwwWZY OEq]f*Y_I(/,v=ll IS`S`V8P0vo3(vt70$Ts,F"CBnd|Lq6<4|'ajF9
mjh89zs]F,8L!|SbBE
\42AHve
nmy'U|qa>F
n`nA*N:_YJQ i=`@E|.x@]G(jGpP1Q@K/F)81N4$MhV7mlte_n*4_X QX;I>t!e lHt
c+,O?@/^\C\C\rWEA&aB09
\o9T wbq+1 $
8i#jX?fC;S('$WFA6L('Y&>
Y:|Q(<a0qQw;CDX:|y@1T2K|PV /)&)q99uV1V;xbcitd"(t?Gg|kE8L"71#3\3du"z#Y1 ?].Sbw(9(v'pO2Fc8 Yw@x95_
k+Y q o_2t"dV3@ta3hdX2=2l, 3
$.B*9BX8;,pVup"&=7w?Axw{o>/q5:Gfq|!IQ88{r19[vR:EQ6RPC+PxOtjn.83xsP?,F<
H?hLB$&mDB!m7ZMn~ul1.dL*LGg<_Eue
&
5oZ?F)i(=# KL"T_t`0
4%gc$$$*h;fo@ca$JOXh8gw9cS
PRsP!e1qSD>J0Rw
rI2%,)/Sy,Frwc6H<u<g1Q9Ae)C$EA/||\6W3i2K:_YgK!3<h~7&"w]iS@hyOQ^ {p
O?rDq!a=" % +tdgw } @ } c { 3DUtJ8*a<s$P7}m158!</
endstream
endobj
10 0 obj <<
/Type /Page
/Contents 11 0 R
/Resources 9 0 R
/MediaBox [0 0 612 792]
/Parent 8 0 R
>> endobj
```

```
9 0 obj <<
/Font << /F31 5 0 R /F32 7 0 R >>
/ProcSet [ /PDF /Text ]
>> endobj
14 0 obj <<
/Length 3549
/Filter /FlateDecode
>>
stream
xr]_7U<7Jun88hKJU===}7{||^}>8tEvx@}f#[|]_^p| 7Jyim/>wvyvK{~eW<-d/'xh`^p
27xT<T.6$3)kL>o~:#{cu2)xt}Qtn#|^<Fa@) "e<[d'_p"pWkwFxFk5/*^,dq@h"! 5v3s0R{ }IB
Dh4Y]%%Sa:m#R3B^~gOKEbY7t8H4tZj/JIOJT(1'7-1[Ce _H_/P9&"n:veXp &MW6'u@HJdq->09R0]- "5GMyi(:6~
^%:*:B }pnv|:NS*V~\iE@0x.y2TM/(0F,GNK^( <$a=
!&bb-72x?_\_@]NkJ}#,H(/RN-5% A
#w3ND9#=3bN CN1a58NLIJ6CEGZ>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\|C0T1M$1o(K|e{ 7|Dt:*DCCP,{bRp+xHN9:4gS>@B/|D<1^:G/0qQ^1$zueegqZnS
Sv2_YAFE}c3?*
:] /cB
.=\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$N(3-1DME#W`nq&{ QK
/As/HE:J%~3)IHl~L$J(5%h$M39j:IFS6
zc(%1$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
`f@Z($0$[K2=vo+7@N"J$C4Fh@]R\ ,ab&&`[ao^GJL>\Wi)QA6)Hz3
]P
<uaLHj[v+8&bj% V-8&MfrSL{gb?
T li0q#!U,4?jzy9RX>o).@lf5at`g8qEqxd7Dzi1 }&k9:W"h8B""e}83?a )j8l}[nAJGuVHKK+p&G.;1FnMctC
!)j0U#=#yG@wV]o~{ {<"KjPfuKY*;Ib(p)AU@<Lff]y/uUS3KY,`f#:KYb-
~=#Y~]. "UOKLBBluqixT1(!(?@iJ#%`@:Oaa,i
(
WR}Cj(wRgI -02d-"Z3 G3@J6|B
.z- aYtr%+ VSXrqTo~yx
Tqg_PdeD3lDuP M>{ _+x;[\MS1;!PX8hO~^O$%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:muUlv7e=q>E["/7oVJ<aF6]

fHE9{Xb4]v`c?rZ_ai;;vOgSK>U-a9dYJrekV@li#ue>uAU3Dvcpq
Z]nK- ]p
[:#FvrIwJUM[W36P(z-0i!Y(C|GE0\O;V-
7fIU
;9S><DQZW
?VvSXuHM/jUOpQN{Apm>l.FurW!]r#=.0]r.+*BjRrZG*[]REDpesX2ZYH$G"#p/MG0
c[>:g>}]tV8+W>MLGhDI~kY=lcXnbr1p<=o8BZ]j-
{"~cusT;hamzgoWn5e=#YV'(0n(*#>l#1O>Wur88MARFzS(@=!q`!E
i%V,.8*g&pPxnaoDN&0<SBFv`Kj ,si vSc}=Q`_u4E#"0F}eUST#m>INThx`$j;(*H~
SL=.V:Ux$.?Ji^7Fyyfp
:O$lqUJr>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$Ow*I{4"D|BC'g
HOG@)=(Q~\L<ldq]42!Eb),=1M?htQOMmMj%N]VG})EX=$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_#HX!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
{l^nAWv"$su|fJ5d_,P'Lok^% YaAp{n[:Qv_bTnn!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'.$CL^{h7}FE,#+Nd1 }sL47^KK{gWtpF?ESb:vv+oxw|B8zr~?J
'=2rOJ.Q&b #PHq+zXhF^j9^j@g:v]Sp6
n-84-t8xoAcAbzpkI>f%j! T/Mlx`A1<%/LcG@x[b\Sq;.,DudtnN1l`Cs6xYmqks/g/Et#E->Tp> A,g_BQ RBmFpYm
7mNXLwq$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_Ie7ATqEb|TUJJ7rp?<rC zWL7L6no R^na*+MS0\^EWn:^#0`nf+&~4!^F;oAHHh
ltsifYK[4m43e)ekB'uNqmb!koF%I&]"3n_*umS,JgY!2)6%dQ7QM]|AQY$e+4D):-KA64EY;ij+E]=6H&M469
8,3sAV./-&mt?l8[7+InFM {h&/| "i*n3*M:/BRIL a&fy@ i[$Hz@){A$~KT,Yn]+f]O{9?L<Y6J
A\*q/ssUUR'4?!r "a*
dgEY4g?`j`=?yvk2`!`MBJ6y?j`jgZ"HB0 ais$x&{9sbIUUVW#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@.)$M@!e\@pjJ5^;bX
58,da`&YO8>?FPjaJhq:d!u`mEGDbM
E^4vwa]e3YUwsi"T@a-q$ROF/:d"<x*1
{VNTkWp7yM&w(q&gYAhkzG9/~?J??Z0S+W)iU.8[j+f5$<`?5}6WSUK<Mp)fU:{ZWpxqTTP toUY2~f]-
%>45j0[KC:WFe ,@y%z0
Kz:,Tet{9K/G3T07,!ly
8;}XSt.ytXz&J&x1R=/l7~t>B?zF,
|X.6"BR%A'M;!g>.NgLtA~n][|/O;{FO&;(jLS;fFR xp|h?|?@ {>;#P44Q|<+hC1x;(@_aLo9xG.wo&)
/t!~tMC&&Sf!&V5w{#7L9ld8Mi^w<m>$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/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/equal/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/logicalnot/hyphen/registered/macron/degree/plusminus/twosuperior/threesuperior/acute/mu/paragraph/periodcentered/cedilla/onesuperior/ordmasculine/guillemotright/onequarter/onehalf/threequarters/questiondown/Agrave/Aacute/Acircumflex/Atilde/Adieresis/Aring/AE/Ccedilla/Egrave/Eacute/Ecircumflex/Edieresis/Igrave/Iacute/Icircumflex/Idieresis/Eth/Ntilde/Ograve/Oacute/Ocircumflex/Otilde/Odieresis/multiply/Oslash/Ugrave/Uacute/Ucircumflex/Udieresis/Yacute/Thorn/germandbls/agrave/aacute/acircumflex/atilde/adieresis/aring/ae/ccedilla/egrave/eacute/ecircumflex/edieresis/igrave/iacute/icircumflex/idieresis/eth/ntilde/ograve/oacute/ocircumflex/otilde/odieresis/divide/oslash/ugrave/uacute/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

```

```

000000009 0000 n
000000006 0000 f
000021200 0000 n
000000000 0000 f
000021111 0000 n
000021288 0000 n
000006116 0000 n
000006010 0000 n
000003016 0000 n
000009930 0000 n
000009823 0000 n
000006195 0000 n
000013278 0000 n
000013171 0000 n
000010010 0000 n
000016445 0000 n
000016338 0000 n
000013358 0000 n
000019221 0000 n
000019114
0000 n
000016525 0000 n
000019301 0000 n
000021380 0000 n
000021504 0000 n
trailer
<<
/Size 27
/Root 25 0 R
/Info 26 0 R
>>
startxref
21591
%%EOF
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"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>

```


Source Code notice required by **Exhibit A**.

1.7. "Larger Work"

means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License"

means this document.

1.8.1. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

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means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A.

Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B.

Any new file that contains any part of the Original Code, or previous Modifications.

1.10. "Original Code"

means Source Code of computer software code which is described in the Source Code notice required by **Exhibit A** as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims"

means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code"

means the preferred form of the Covered Code for making modifications to it, including

all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The

</dd>

<dt><u>3.2.</u> Availability of Source Code.</dt>

<dd>

Any Modification created by You will be provided to the Initial Developer in Source Code form and are subject to the terms of the License.

</dd>

<dt>3.3. Description of Modifications.</dt>

<dd>

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

</dd>

<dt>3.4. Intellectual Property Matters.</dt>

<dd>

<dl compact="compact">

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<dd>

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

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

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

DOCUMENTATION

ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal

documentation:

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

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

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

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

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

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

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

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

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

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

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

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

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REFERENCES

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We

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The

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

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp://ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](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 for information on retrieving files that way.

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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

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

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

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

TO DO

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

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

As always, speeding things up is of great interest.

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

1.4 iptables 1.4.12

1.4.1 Available under license :

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Version 2, June 1991

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```

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```

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*     Marc Boucher <marc+nf@mbsi.ca>
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*     James Morris <jmorris@intercode.com.au>
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*     Harald Welte <laforge@gnumonks.org>
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1.5 xinetd 2.3.15

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1.6 dojo 1.9.3

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 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
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 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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1.11 flite 2.0.0

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```
src/cg/cst_mlp.h
src/cg/cst_mlp.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst_vc.c
/*****
/*
/*
/* Nagoya Institute of Technology, Aichi, Japan, */
/* Nara Institute of Science and Technology, Nara, Japan */
/*
```

```

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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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src/speech/rateconv.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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```

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) */

1.12 zlib 1.2.3

1.12.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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1.13 glibc 2.23

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 */

1.15 curl 7.26.0

1.15.1 Available under license :

License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>)

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Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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libressl

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c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS

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libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

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1.16 mongoose 3.1

1.16.1 Available under license :

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

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

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

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

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Otherwise, if the work is a derivative of the Library, you may distribute the

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a) Accompany

the work with the complete corresponding

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The

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1.17 libusb 1.0.22

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

Any executables

containing that work also fall under Section 6,

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source code for the Library including whatever

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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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```
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1.19 opus 1.3.1

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1.20 boost 1.73.0

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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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1.25 linux-kernel 3.12.33

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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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Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login

procedure and CyberLogin is no longer used.)

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

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1.27 kmod 28

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Any executables

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1.31 libpcap 1.10.1

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The hypothetical commands

```
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1.34 procps 3.2.7

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```

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the Free Software Foundation; either version  
2 of the License, or  
(at your option) any later version.
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```
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1.35 fmt 7.0.2

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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1.36 mtd-utils 1.5.0

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1.37 jansson 2.14

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1.38 libsrtp 2.5.0

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1.39 libxml2 2.9.13

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1.40 safeclib 4.1.3

1.40.1 Available under license :

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1.41 libusb-compat 0.1.4

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

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

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

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

Any executables

containing that work also fall under Section 6,

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a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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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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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.

@item

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1.44 duktape 2.6.0

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1.45 zlib 1.2.13

1.45.1 Available under license :

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1.46 libwebsockets 3.1.99

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

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1.47 pcre 10.42

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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1.48 ncurses 6.4

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```
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-- vile: txtmode file-encoding=utf-8

1.49 systemd v247

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1.50 sysv-init 2.88

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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>,
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1.51 nghttp2 1.54.0

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1.52 u-boot 2012.04

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The End

1.54 libpng 1.6.37

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1.55 expat 2.5.0

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1.56 tcpdump 4.99.1

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```
# -*- perl -*-

$stestlist = [
  # 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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```

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1.57 c-ares 1.19.1

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```
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```

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1.58 curl 7.86.0-DEV

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1.59 libpng 1.2.22rc1

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1.64 mini-xml 2.7

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1.65 libevent 2.1.5-beta

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The

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