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q
Xf6:_m93
@#y.1}}|2h=A$,wf>Q%8kYJunSYCMI>6camaE:^w,UA|x8Y3?"<Z1W;A"t1O+D15GKH0A:v|Beo)g$*GK`McD
j[KM<iz370j&a599_w?BR4*3#o7_t\Q*<Oa.;|eB|p@)'C"F|^d+Km`2GxOSsoKqW~c;+5=]]3"2K(=aL?,@AnH,Z}
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\I\C0T1M$1o(K\{7|Dt:*DCCP,{bRp+XHN9:4gS>@B/]D<1^:G/0qQ^1$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$N(3-1DME#W`nq&{ QK
/As/HE:J%~3)IHil~L$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/j]UOpQN{Apm>l.FurW!]r#=.0]r.+*BjRrZG*[]REDpesX2ZYZH$G"#p/MG0
c[>:g>}]tV8+W>MLGhDI~kY=lcXnbr1p<=o8BZ]j-
{"~cusT;hamzgoWn5e=#YV'(0n(*#>l#1O>Wur88MARFzS(@=!q`!E
i%V,.8*g&pPxnaoDN&0<SBFv`(Kj ,si vSc)=Q`_u4E#"0F}eUST#m>INThx`$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{ %1jL5UyT8wXqc=;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_lE7ATqEb|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/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

```

```

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>

```





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engelen@genivia.com / engelen@acm.org

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starts in an interactive mode:

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

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parts of the General Public License. Of course, the commands you use may be  
called something other than `show w' and `show c'; they could even be  
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## 1.3 libjpeg 6b

### 1.3.1 Notifications :

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

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

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

## DOCUMENTATION

### ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal

documentation:

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

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

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

## OVERVIEW

=====

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

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

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.

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://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.

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](mailto: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](mailto: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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## 1.6 dojo 1.9.3

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## 1.7 libedit 3.1



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## 1.8 ntp-sntp-libopts 4.2.8p4

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## 1.10 cpp 5.3.0

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@c Set file name and title for man page.

@setfilename gpl

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for

C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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For more information see the README file in the examples directory.

Directory native/fdlibm

fdlibm contains general algorithms useful for runtimes and compilers to support strict double and float mathematical operations.

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David Megginson,  
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1998-05-11

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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

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The

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

Ty Coon, President of Vice  
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@ignore

@c Set file name and title for man page.

@setfilename gfdl

@settitle GNU Free Documentation License

@c man begin SEEALSO

gpl(7), fsf-funding(7).

@c man end

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@c hence no sectioning command or @node.

@c man end

@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnohtml

@html

<h1 align="center">Installing GCC: GNU Free Documentation License</h1>

@end html

@ifnohtml

@unnumbered GNU Free Documentation License

@end ifnohtml

@end ifset

@c man begin DESCRIPTION

@ifclear gfdlhtml

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
```

## 1.11 flite 2.0.0

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src/cg/cst\_mjpg.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/utils/cst\_mmap\_none.c

src/utils/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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```
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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
/* 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) */
```

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## 1.13 curl 7.26.0

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=====

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## 1.16 libusb 1.0.22

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```
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<PFX>or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html
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<PFX>Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
```

```
<PFX>
```

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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"?>
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"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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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, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

\* re-established. (put back CFG\_PHYIE)

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

\*  
\*  
\*/

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for his contributions to the dvb-net driver

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

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## 1.25 kmod 28

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## 1.27 cJSON 1.0.0

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## 1.28 libnettle6 3.7.2

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```
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```
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```

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```
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```

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

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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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of



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## 1.33 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	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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## 1.34 mtd-utils 1.5.0

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 */
```

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this

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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.

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

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

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

source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the



Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work

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## 1.40 libnsl 2.23

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

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

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contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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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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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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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.

You must give prominent notice with each copy of the work that the

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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# 1.42 duktape 2.6.0

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CommonJS specification snapshots are included in the references/  
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## 1.43 libwebsockets 3.1.99

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- test-apps/\*.c
- test-apps/\*.h
- minimal-examples/\*
- lws/\*

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

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

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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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library.

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

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

That's all there is to it!

## 1.44 pcre 10.42

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End

```
/*  
* pcre2grep program *  
*/
```

/\* This is a grep program that uses the 8-bit PCRE regular expression library via the PCRE2 updated API to do its pattern matching. On Unix-like, Windows, and native z/OS systems it can recurse into directories, and in z/OS it can handle PDS files.

Note that for native z/OS, in addition to defining the NATIVE\_ZOS macro, an additional header is required. That header is not included in the main PCRE2 distribution because other apparatus is needed to compile pcre2grep for z/OS. The header can be found in the special z/OS distribution, which is available from [www.zaconsultants.net](http://www.zaconsultants.net) or from [www.cbttape.org](http://www.cbttape.org).

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\*/  
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PCRE2 is a library of functions to support regular expressions whose syntax

and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

#### THE BASIC LIBRARY FUNCTIONS

-----

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

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## 1.45 ncurses 6.4

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## 1.47 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](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989

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## 1.51 ntp 4.2.8p17

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```
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$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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Any

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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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## 1.62 mini-xml 2.7

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September 18, 2010

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## 1.63 nghttp2 1.57.0

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## 1.64 libevent 2.1.5-beta

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