```
libpng version 1.4.3 - June 26, 2010

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(Version 0.96 Copyright (c) 1996, 1997 Andreas Dilger)

(Version 0.88 Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.)
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Authors and maintainers:

libpng versions 0.71, May 1995, through 0.88, January 1996: Guy Schalnat libpng versions 0.89c, June 1996, through 0.96, May 1997: Andreas Dilger libpng versions 0.97, January 1998, through 1.4.3 - June 26, 2010: Glenn See also "Contributing Authors", below.

Note about libpng version numbers:

Due to various miscommunications, unforeseen code incompatibilities and occasional factors outside the authors' control, version numbering on the library has not always been consistent and straightforward. The following table summarizes matters since version 0.89c, which was the first widely used release:

source version			shared-lib version
0.89c "1.0 beta 3"	0.89	89	1.0.89
0.90 "1.0 beta 4"			
0.95 "1.0 beta 5"			0.95 [should have been 2.0.95]
0.96 "1.0 beta 6"			
0.97b "1.00.97 beta 7"			
0.97c		97	
0.98	0.98		
0.99		98	
0.99a-m	0.99		
1.00		100	
1.0.0 (from here	on, the	100	2.1.0 [100 should be 10000]
1.0.1 png.h stri	ng is	10001	2.1.0
1.0.1a-e identical	to the	10002	from here on, the shared library
1.0.2 source ver	sion)	10002	is 2.V where V is the source code
1.0.2a-b		10003	version, except as noted.
1.0.3		10003	
1.0.3a-d		10004	
1.0.4		10004	
1.0.4a-f		10005	
1.0.5 (+ 2 patches)		10005	
1.0.5a-d		10006	
1.0.5e-r		10100	(not source compatible)
1.0.5s-v		10006	(not binary compatible)
1.0.6 (+ 3 patches)		10006	(still binary incompatible)
1.0.6d-f		10007	(still binary incompatible)
1.0.6g		10007	
1.0.6h		10007	10.6h (testing xy.z so-numbering)
1.0.6i		10007	10.6i
1.0.6j		10007	2.1.0.6j (incompatible with 1.0.0)
1.0.7beta11-14	DLLNUM	10007	2.1.0.7beta11-14 (binary compatible)

```
1.0.7beta15-18
                         1
                              10007 2.1.0.7beta15-18 (binary compatible)
1.0.7rc1-2
                         1
                              10007 2.1.0.7rc1-2 (binary compatible)
1.0.7
                         1
                              10007 (still compatible)
1.0.8beta1-4
                              10008 2.1.0.8beta1-4
                         1
1.0.8rc1
                         1
                              10008 2.1.0.8rc1
                              10008 2.1.0.8
1.0.8
                         1
1.0.9beta1-6
                              10009 2.1.0.9beta1-6
                         1
1.0.9rc1
                              10009 2.1.0.9rc1
                         1
1.0.9beta7-10
                         1
                              10009 2.1.0.9beta7-10
1.0.9rc2
                         1
                              10009 2.1.0.9rc2
                              10009 2.1.0.9
1.0.9
                         1
                              10010 2.1.0.10beta1
1.0.10beta1
                         1
                              10010 2.1.0.10rc1
1.0.10rc1
                         1
1.0.10
                         1
                              10010 2.1.0.10
1.0.11beta1-3
                         1
                              10011 2.1.0.11beta1-3
                              10011 2.1.0.11rc1
1.0.11rc1
                         1
1.0.11
                         1
                              10011 2.1.0.11
                              10012 2.1.0.12beta1-2
1.0.12beta1-2
                         2
1.0.12rc1
                         2
                              10012 2.1.0.12rc1
1.0.12
                         2
                              10012 2.1.0.12
1.1.0a-f
                              10100 2.1.1.0a-f (branch abandoned)
1.2.0beta1-2
                         2
                              10200 2.1.2.0beta1-2
                              10200 3.1.2.0beta3-5
1.2.0beta3-5
                         3
1.2.0rc1
                         3
                              10200 3.1.2.0rc1
1.2.0
                         3
                              10200 3.1.2.0
1.2.1beta1-4
                         3
                              10201 3.1.2.1beta1-4
                              10201 3.1.2.1rc1-2
                         3
1.2.1rc1-2
1.2.1
                         3
                              10201 3.1.2.1
                              10202 12.so.0.1.2.2beta1-6
1.2.2beta1-6
                        12
1.0.13beta1
                              10013 10.so.0.1.0.13beta1
                        10
1.0.13rc1
                        10
                              10013 10.so.0.1.0.13rc1
                              10202 12.so.0.1.2.2rc1
1.2.2rc1
                        12
                              10013 10.so.0.1.0.13
1.0.13
                        10
1.2.2
                        12
                              10202 12.so.0.1.2.2
                              10203 12.so.0.1.2.3rc1-6
1.2.3rc1-6
                        12
                              10203 12.so.0.1.2.3
1.2.3
                        12
1.2.4beta1-3
                        13
                              10204 12.so.0.1.2.4beta1-3
1.0.14rc1
                        13
                              10014 10.so.0.1.0.14rc1
                              10204 12.so.0.1.2.4rc1
1.2.4rc1
                        13
                              10014 10.so.0.1.0.14
1.0.14
                        10
1.2.4
                        13
                              10204 12.so.0.1.2.4
                              10205 12.so.0.1.2.5beta1-2
1.2.5beta1-2
                        13
                              10015 10.so.0.1.0.15rc1-3
1.0.15rc1-3
                        10
1.2.5rc1-3
                        13
                              10205 12.so.0.1.2.5rc1-3
1.0.15
                              10015 10.so.0.1.0.15
                        10
                              10205 12.so.0.1.2.5
1.2.5
                        13
                              10206 12.so.0.1.2.6beta1-4
1.2.6beta1-4
                        13
1.0.16
                        10
                              10016 10.so.0.1.0.16
1.2.6
                        13
                              10206 12.so.0.1.2.6
1.2.7beta1-2
                              10207 12.so.0.1.2.7beta1-2
                        13
1.0.17rc1
                        10
                              10017 12.so.0.1.0.17rc1
1.2.7rc1
                              10207 12.so.0.1.2.7rc1
                        13
1.0.17
                        10
                              10017 12.so.0.1.0.17
1.2.7
                        13
                              10207 12.so.0.1.2.7
```

1.2.8beta1-5	13	10208	12.so.0.1.2.8beta1-5
1.0.18rc1-5	10	10018	12.so.0.1.0.18rc1-5
1.2.8rc1-5	13	10208	12.so.0.1.2.8rc1-5
1.0.18	10	10018	12.so.0.1.0.18
1.2.8	13	10208	12.so.0.1.2.8
1.2.9beta1-3	13	10209	12.so.0.1.2.9beta1-3
1.2.9beta4-11	13	10209	12.so.0.9[.0]
1.2.9rc1	13	10209	12.so.0.9[.0]
1.2.9	13	10209	12.so.0.9[.0]
1.2.10beta1-7	13	10210	12.so.0.10[.0]
1.2.10rc1-2	13	10210	12.so.0.10[.0]
1.2.10	13	10210	12.so.0.10[.0]
1.4.0beta1-5	14	10400	14.so.0.0[.0]
1.2.11beta1-4	13	10211	12.so.0.11[.0]
1.4.0beta7-8	14	10400	14.so.0.0[.0]
1.2.11	13	10211	12.so.0.11[.0]
1.2.12	13	10212	12.so.0.12[.0]
1.4.0beta9-14	14	10400	14.so.0.0[.0]
1.2.13	13	10213	12.so.0.13[.0]
1.4.0beta15-36	14	10400	14.so.0.0[.0]
1.4.0beta37-87	14	10400	14.so.14.0[.0]
1.4.0rc01	14	10400	14.so.14.0[.0]
1.4.0beta88-109	14	10400	14.so.14.0[.0]
1.4.0rc02-08	14	10400	14.so.14.0[.0]
1.4.0	14	10400	14.so.14.0[.0]
1.4.1beta01-03	14	10401	14.so.14.1[.0]
1.4.1rc01	14	10401	14.so.14.1[.0]
1.4.1beta04-12	14	10401	14.so.14.1[.0]
1.4.1rc02-04	14	10401	14.so.14.1[.0]
1.4.1	14	10401	14.so.14.1[.0]
1.4.2beta01	14	10402	14.so.14.2[.0]
1.4.2rc02-06	14	10402	14.so.14.2[.0]
1.4.2	14	10402	14.so.14.2[.0]
1.4.3beta01-05	14	10403	14.so.14.3[.0]
1.4.3rc01-03	14	10403	14.so.14.3[.0]
1.4.3	14	10403	14.so.14.3[.0]

Henceforth the source version will match the shared-library major and minor numbers; the shared-library major version number will be used for changes in backward compatibility, as it is intended. The PNG_LIBPNG_VER macro, which is not used within libpng but is available for applications, is an unsigned integer of the form xyyzz corresponding to the source version x.y.z (leading zeros in y and z). Beta versions were given the previous public release number plus a letter, until version 1.0.6j; from then on they were given the upcoming public release number plus "betaNN" or "rcN".

Binary incompatibility exists only when applications make direct access to the info_ptr or png_ptr members through png.h, and the compiled application is loaded with a different version of the library.

DLLNUM will change each time there are forward or backward changes in binary compatibility (e.g., when a new feature is added).

See libpng.txt or libpng.3 for more information. The PNG specification is available as a W3C Recommendation and as an ISO Specification, http://www.w3.org/TR/2003/REC-PNG-20031110/

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Cosmin Truta

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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The contributing authors would like to thank all those who helped with testing, bug fixes, and patience. This wouldn't have been possible without all of you.

Thanks to Frank J. T. Wojcik for helping with the documentation.

Y2K compliance in libpng:

June 26, 2010

Since the PNG Development group is an ad-hoc body, we can't make an official declaration.

This is your unofficial assurance that libpng from version 0.71 and upward through 1.4.3 are Y2K compliant. It is my belief that earlier versions were also Y2K compliant.

Libpng only has three year fields. One is a 2-byte unsigned integer that will hold years up to 65535. The other two hold the date in text format, and will hold years up to 9999.

The integer is "png_uint_16 year" in png_time_struct.

The strings are

"png_charp time_buffer" in png_struct and

"near_time_buffer", which is a local character string in png.c.

There are seven time-related functions:

png.c: png_convert_to_rfc_1123() in png.c
 (formerly png_convert_to_rfc_1152() in error)
png_convert_from_struct_tm() in pngwrite.c, called in pngwrite.c
png_convert_from_time_t() in pngwrite.c
png_get_tIME() in pngget.c
png_handle_tIME() in pngrutil.c, called in pngread.c
png_set_tIME() in pngset.c
png_write_tIME() in pngwutil.c, called in pngwrite.c

All handle dates properly in a Y2K environment. The png_convert_from_time_t() function calls gmtime() to convert from system clock time, which returns (year - 1900), which we properly convert to the full 4-digit year. There is a possibility that applications using libpng are not passing 4-digit years into the png_convert_to_rfc_1123() function, or that they are incorrectly passing only a 2-digit year instead of "year - 1900" into the png_convert_from_struct_tm() function,

but this is not under our control. The libpng documentation has always stated that it works with 4-digit years, and the APIs have been documented as such.

The tIME chunk itself is also Y2K compliant. It uses a 2-byte unsigned integer to hold the year, and can hold years as large as 65535.

zlib, upon which libpng depends, is also Y2K compliant. It contains no date-related code.

Glenn Randers-Pehrson libpng maintainer PNG Development Group