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Julian Seward, Cambridge, UK.  
jseward@bzip.org  
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```
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```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
* $FreeBSD: src/sys/sys/queue.h,v 1.38 2000/05/26 02:06:56 jake Exp $

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o [freetype-devel@nongnu.org](mailto:freetype-devel@nongnu.org)

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FreeType font driver for BDF fonts

Francesco Zappa Nardelli  
<francesco.zappa.nardelli@ens.fr>

## Introduction

\*\*\*\*\*

BDF (Bitmap Distribution Format) is a bitmap font format defined by Adobe, which is intended to be easily understood by both humans and computers. This code implements a BDF driver for the FreeType library, following the Adobe Specification V 2.2. The specification of the BDF font format is available from Adobe's web site:

[http://partners.adobe.com/asn/developer/PDFS/TN/5005.BDF\\_Spec.pdf](http://partners.adobe.com/asn/developer/PDFS/TN/5005.BDF_Spec.pdf)

Many good bitmap fonts in bdf format come with XFree86 ([www.XFree86.org](http://www.XFree86.org)). They do not define vertical metrics, because the X Consortium BDF specification has removed them.

## Encodings

\*\*\*\*\*

The variety of encodings that accompanies bdf fonts appears to encompass the small set defined in freetype.h. On the other hand, two properties that specify encoding and registry are usually defined in bdf fonts.

I decided to make these two properties directly accessible, leaving to the client application the work of interpreting them. For instance:

```

#include FT_INTERNAL_BDF_TYPES_H

FT_Face      face;
BDF_Public_Face bdfiface;

FT_New_Face( library, ..., &face );

bdfiface = (BDF_Public_Face)face;

if ( ( bdfiface->charset_registry == "ISO10646" ) &&
      ( bdfiface->charset_encoding == "1" )
      [..]

```

Thus the driver always exports 'ft\_encoding\_none' as face->charmap.encoding. FT\_Get\_Char\_Index's behavior is unmodified, that is, it converts the ULong value given as argument into the corresponding glyph number.

If the two properties are not available, Adobe Standard Encoding should be assumed.

#### Anti-Aliased Bitmaps

\*\*\*\*\*

The driver supports an extension to the BDF format as used in Mark Leisher's xmbdfed bitmap font editor. Microsoft's SBIT tool expects bitmap fonts in that format for adding anti-aliased them to TrueType fonts. It introduces a fourth field to the 'SIZE' keyword which gives the bpp value (bits per pixel) of the glyph data in the font. Possible values are 1 (the default), 2 (four gray levels), 4 (16 gray levels), and 8 (256 gray levels). The driver returns either a bitmap with 1 bit per pixel or a pixmap with 8bits per pixel (using 4, 16, and 256 gray levels, respectively).

#### Known problems

\*\*\*\*\*

- A font is entirely loaded into memory. Obviously, this is not the Right Thing(TM). If you have big fonts I suggest you convert them into PCF format (using the bdf2pcf utility): the PCF font drive of FreeType can perform incremental glyph loading.

When I have some time, I will implement on-demand glyph parsing.

- Except for encodings properties, client applications have no visibility of

the PCF\_Face object. This means that applications cannot directly access font tables and must trust FreeType.

- Currently, glyph names are ignored.

I plan to give full visibility of the BDF\_Face object in an upcoming revision of the driver, thus implementing also glyph names.

- As I have never seen a BDF font that defines vertical metrics, vertical metrics are (parsed and) discarded. If you own a BDF font that defines vertical metrics, please let me know (I will implement them in 5-10 minutes).

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\*\*\*\*\*

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\*\*\* Portions of the driver (that is, bdf.c and bdf.h):

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#### Credits

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This driver is based on excellent Mark Leisher's bdf library. If you find something good in this driver you should probably thank him, not me.

FreeType font driver for PCF fonts

Francesco Zappa Nardelli  
<francesco.zappa.nardelli@ens.fr>

#### Introduction

\*\*\*\*\*

PCF (Portable Compiled Format) is a binary bitmap font format, largely used in X world. This code implements a PCF driver for the FreeType library. Glyph images are loaded into memory only on demand, thus leading to a small memory footprint.

Information on the PCF font format can only be worked out from 'pcfread.c', and 'pcfwrite.c', to be found, for instance, in the XFree86 (www.xfree86.org) source tree (xc/lib/font/bitmap/).

Many good bitmap fonts in bdf format come with XFree86: they can be compiled into the pcf format using the 'bdf2pcf' utility.

#### Supported hardware

\*\*\*\*\*

The driver has been tested on linux/x86 and sunos5.5/sparc. In both cases the compiler was gcc. When back in Paris, I will test it also on linux/alpha.

## Encodings

\*\*\*\*\*

The variety of encodings that accompanies pcf fonts appears to encompass the small set defined in freetype.h. On the other hand, each pcf font defines two properties that specify encoding and registry.

I decided to make these two properties directly accessible, leaving to the client application the work of interpreting them. For instance:

```
#include "pcftypes.h" /* include/freetype/internal/pcftypes.h */
```

```
FT_Face face;
```

```
PCF_Public_Face pcfface;
```

```
FT_New_Face( library, ..., &face );
```

```
pcfface = (PCF_Public_Face)face;
```

```
if ((pcfface->charset_registry == "ISO10646") &&  
    (pcfface->charset_encoding == "1")) [..]
```

Thus the driver always export 'ft\_encoding\_none' as face->charmap.encoding. FT\_Get\_Char\_Index() behavior is unmodified, that is, it converts the ULong value given as argument into the corresponding glyph number.

## Known problems

\*\*\*\*\*

- dealing explicitly with encodings breaks the uniformity of freetype2 api.

- except for encodings properties, client applications have no visibility of the PCF\_Face object. This means that applications cannot directly access font tables and are obliged to trust FreeType.

- currently, glyph names and ink\_metrics are ignored.

I plan to give full visibility of the PCF\_Face object in the next release of the driver, thus implementing also glyph names and ink\_metrics.

- height is defined as (ascent - descent). Is this correct?

- if unable to read size information from the font, PCF\_Init\_Face sets available\_size->width and available\_size->height to 12.

- too many english grammar errors in the readme file :-(

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#### Credits

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Keith Packard wrote the pcf driver found in XFree86. His work is at the same time the specification and the sample implementation of the PCF format. Undoubtedly, this driver is inspired from his work.

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.1.4, March 11th, 2002

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jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <ftp://ds.internic.net/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](ftp://ds.internic.net/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](ftp://ds.internic.net/rfc/rfc1952.txt) (gzip format).

\*/

## 1.8 iptables 1.4.1

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```
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```
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This is free software, and you are welcome to redistribute it
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```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.9 isc dhcp 4.1-ESV-R4

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## 1.10 jpeg 8d

### 1.10.1 Notifications :

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

### 1.10.2 Available under license :

The Independent JPEG Group's JPEG software

=====  
README for release 8d of 15-Jan-2012  
=====

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

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

#### DOCUMENTATION ROADMAP

=====  
This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:  
install.txt     How to configure and install the IJG software.

usage.txt      Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1            Unix-style man pages for programs (same info as usage.txt).  
wizard.txt     Advanced usage instructions for JPEG wizards only.  
change.log     Version-to-version change highlights.  
Programmer and internal documentation:  
libjpeg.txt    How to use the JPEG library in your own programs.  
example.c      Sample code for calling the JPEG library.  
structure.txt   Overview of the JPEG library's internal structure.  
filelist.txt   Road map of IJG files.  
coderules.txt   Coding style rules --- please read if you contribute code.

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

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

## OVERVIEW

=====

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple

applications for inserting and extracting textual comments in JFIF files.

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

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

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, 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 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 <http://www.ijg.org/files/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 currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this

document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

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. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/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

<http://www.ijg.org/files/>. It is expected that the next revision

of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).

The most recent released version can always be found there in

directory "files". This particular version will be archived as

<http://www.ijg.org/files/jpegsr8d.tar.gz>, and in Windows-compatible

"zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>

and other news.answers archive sites, including the official news.answers

archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

## ACKNOWLEDGMENTS

=====

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

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

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

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

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

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

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

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the [ijg.org](http://ijg.org) site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

#### FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force

convergence on common, interoperable format standards for JPEG files.  
Don't use an incompatible file format!  
(In any case, our decoder will remain capable of reading existing JPEG  
image files indefinitely.)

Furthermore, the ISO committee pretends to be "responsible for the popular  
JPEG" in their public reports which is not true because they don't respond to  
actual requirements for the maintenance of the original JPEG specification.

There are currently distributions in circulation containing the name  
"libjpeg" which claim to be a "derivative" or "fork" of the original  
libjpeg, but don't have the features and are incompatible with formats  
supported by actual IJG libjpeg distributions. Furthermore, they  
violate the license conditions as described under LEGAL ISSUES above.  
We have no sympathy for the release of misleading and illegal  
distributions derived from obsolete code bases.  
Don't use an obsolete code base!

TO DO  
=====

Version 8 is the first release of a new generation JPEG standard  
to overcome the limitations of the original JPEG specification.  
More features are being prepared for coming releases...

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

/\* Portions of this code are based on the PBMPLUS library, which is:

\*\*

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/\*

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\* of Feb. 1991. That file contains the following copyright notice:

\* Based on GIFENCODE by David Rowley <[mgardi@watdscu.waterloo.edu](mailto:mgardi@watdscu.waterloo.edu)>.

\* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

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* $Id: except.c,v 1.27.2.2 2001/07/27 01:20:34 kaz Exp $
* $Name: kazlib_1_20 $
*/

```

## 1.12 libcurl 7.48.0

### 1.12.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

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!

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```
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## 1.22 sqlite 3.7.9



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```
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## 1.27 zlib 1.2.3

### 1.27.1 Available under license :

version 1.2.3, July 18th, 2005

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## 1.28 Zlib 1.2.5.3

### 1.28.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.5.3, January 15th, 2012
```

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\*/

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