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package org.apache.commons.codec;

/**
   * Defines common decoding methods for byte array decoders.
   *
   * @author Apache Software Foundation
   * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
   */
   public interface BinaryDecoder extends Decoder {

      /**
         * Decodes a byte array and returns the results as a byte array.
         *
         * @param pArray A byte array which has been encoded with the
         *      appropriate encoder
         *
         * @return a byte array that contains decoded content
         *
         * @throws DecoderException A decoder exception is thrown
         *      if a Decoder encounters a failure condition during
         *      the decode process.
         */
      byte[] decode(byte[] pArray) throws DecoderException;
   }

The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats
such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- **BinaryCodec:** Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- **QuotedPrintableCodec:** Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- **BCodec:** Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- **QCodec:** Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- **Soundex:** Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- **RefinedSoundex:** Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- Hex converts illegal characters to 255. Issue: 28455.
- Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- Added missing tags in Javadoc comments.
- General Javadoc improvements.

Changes:

- This version is released under the Apache License 2.0, please see LICENSE.txt. Previous versions were released under the Apache License 1.1.
- The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team
1.3 apache commons codec 1.8

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The inverse error function implementation in the Erf class is based on CUDA
code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance,
===============================================================================

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and PowellOptimizer (package org.apache.commons.math3.optimization.general)
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/*************************************************************************
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* Software Development Group
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.25 google-gson 2.2.4

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1.31 java-diff 1.1.0

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1.32 javabi-sizeof 0.2

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Name: jaxrpc-api
Version: 1.1
Release: 0
License: CDDL 1.0
Group: Libraries/Java
Source: /users/sahuero/sandbox/SOURCES/jboss-jaxrpc-api_1.1_spec-1.0.1.Final-sources.jar
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1.35 jdom 1.1.3

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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.

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However, linking a "work that uses the Library" with the Library
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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.

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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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