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Licensing Information User Manual for PeopleSoft Human Capital Management 9.2 (through Update Image 53)

October 2025

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- PeopleSoft Benefits Administration
- PeopleSoft eCompensation
- PeopleSoft ePerformance
- PeopleSoft Human Resources
- PeopleSoft Payroll
- PeopleSoft Payroll Interface
- PeopleSoft Pension Administration
- PeopleSoft Recruiting Solutions
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COBOL compiler versions that are certified for use with PeopleTools 8.62 include:

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- IBM COBOL for AIX 5.1
- IBM Enterprise COBOL for z/OS 6.3 and 6.4
- Rocket Software Visual COBOL for PeopleSoft v7 and v9

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PeopleTools 8.62 Licensing Information

PeopleTools 8.62 Product Editions and Permitted Features

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pify

cachedir

onetime

common-tags

pretty-bytes

cli-truncate

path-is-absolute

ospath

string-width

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cli-cursor

is-path-inside

form-data

shebang-regex

slice-ansi

execa

is-fullwidth-code-point

cypress

executable

clean-stack

indent-string

balanced-match

log-symbols

aggregate-error

ansi-regex

has-flag

figures

through

restore-cursor

is-typedarray

shebang-command

eventemitter2

global-dirs

wrap-ansi

npm-run-path

p-map

is-installed-globally

minimist

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ansi-styles

mimic-fn

ms

isstream

assert-plus

colorette

escape-string-regexp

untildify

proxy-from-env

punycode

type-fest

combined-stream

throttleit

supports-color

strip-ansi

get-stream

path-key

ansi-escapes

performance-now

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log-update

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Exceptions

---

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---

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Contributing Author(s):

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Gary L Peskin (Java development)

Sami Lempinen (release management)

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

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// Scintilla source code edit control

/** @file LexA68k.cxx

** Lexer for Assembler, just for the MASM syntax

** Written by Martial Demolins AKA Folco

**/

// Copyright 2010 Martial Demolins <mdemolins(a)gmail.com>

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// may be distributed.

// Scintilla source code edit control

/** @file LexAbaqus.cxx

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** Lexer for ABAQUS. Based on the lexer for APDL by Hadar Raz.

** By Sergio Lucato.

** Sort of completely rewritten by Gertjan Kloosterman

**/

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// Scintilla source code edit control

/** @file LexAda.cxx

** Lexer for Ada 95

**/

// Copyright 2002 by Sergey Koshcheyev <sergey.k@seznam.cz>

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// Scintilla source code edit control

/** @file LexAPDL.cxx

** Lexer for APDL. Based on the lexer for Assembler by The Black Horus.

** By Hadar Raz.

**/

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/**

* LexAsciidoc.cxx

*

* A simple Asciidoc lexer for scintilla.

*

* Based on the LexMarkdown.cxx by Jon Strait - jstrait@moonloop.net

*

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*

**/

// Scintilla source code edit control

/** @file LexAsm.cxx

** Lexer for Assembler, just for the MASM syntax

** Written by The Black Horus

** Enhancements and NASM stuff by Kein-Hong Man, 2003-10

** SCE_ASM_COMMENTBLOCK and SCE_ASM_CHARACTER are for future GNU as colouring

** Converted to lexer object and added further folding features/properties by "Udo Lechner" <dlchnr(at)gmx(dot)net>

**/

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// Scintilla source code edit control

/** @file LexAsn1.cxx

** Lexer for ASN.1

**/

// Copyright 2004 by Herr Pfarrer rpfarrer <at> yahoo <dot> de

// Last Updated: 20/07/2004

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// Scintilla source code edit control

// @file LexASY.cxx

//Author: instanton (email: soft_share<at>126<dot>com)

// This lexer is for the Asymptote vector graphics language

// https://en.wikipedia.org/wiki/Asymptote_(vector_graphics_language)

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// Scintilla source code edit control

// @file LexAU3.cxx

// Lexer for AutoIt3 https://www.autoitscript.com/site/

// by Jos van der Zande, jvdzande@yahoo.com

//

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// SciTE - Scintilla based Text Editor

/** @file LexAVE.cxx

** Lexer for Avenue.

**

** Written by Alexey Yutkin <yutkin@geol.msu.ru>.

**/

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// Scintilla source code edit control

/** @file LexAVS.cxx

** Lexer for AviSynth.

**/

// Copyright 2012 by Bruno Barbieri <brunorex@gmail.com>

// Heavily based on LexPOV by Neil Hodgson

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// Scintilla source code edit control

/** @file LexBaan.cxx

** Lexer for Baan.

** Based heavily on LexCPP.cxx

**/

// Copyright 2001- by Vamsi Potluru <vamsi@who.net> & Praveen Ambekar <ambekarpraveen@yahoo.com>

// Maintainer Email: oirfeodent@yahoo.co.in

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/** @file LexBash.cxx

** Lexer for Bash.

**/

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// Adapted from LexPerl by Kein-Hong Man 2004

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// Scintilla source code edit control

/** @file LexBasic.cxx

** Lexer for BlitzBasic and PureBasic.

** Converted to lexer object and added further folding features/properties by "Udo Lechner" <dlchnr(at)gmx(dot)net>

**/

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/** @file LexBatch.cxx

** Lexer for batch files.

**/

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// conditions under which this software may be distributed.

/**

* @file LexBibTeX.cxx

* @brief General BibTeX coloring scheme.

* @author Sergiu Dotenco

* @date April 18, 2009

*/

// Scintilla source code edit control

/** @file LexCaml.cxx

** Lexer for Objective Caml.

**/

// Copyright 2005-2009 by Robert Roessler <robertr@rftp.com>

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/** @file LexCIL.cxx

** Lexer for Common Intermediate Language

** Written by Jad Altahan (github.com/xv)

** CIL manual: https://www.ecma-international.org/publications/standards/Ecma-335.htm

**/

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/** @file LexCLW.cxx

** Lexer for Clarion.

** 2004/12/17 Updated Lexer

**/

// Copyright 2003-2004 by Ron Schofield <ron@schofieldcomputer.com>

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/** @file LexCmake.cxx

** Lexer for Cmake

**/

// Copyright 2007 by Cristian Adam <cristian [dot] adam [at] gmx [dot] net>

// based on the NSIS lexer

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// Scintilla source code edit control

/** @file LexCOBOL.cxx

** Lexer for COBOL

** Based on LexPascal.cxx

** Written by Laurent le Tynevez

** Updated by Simon Steele <s.steele@pnotepad.org> September 2002

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** Updated by Mathias Rauen <scite@madshi.net> May 2003 (Delphi adjustments)

** Updated by Rod Falck, Aug 2006 Converted to COBOL

**/

// Scintilla source code edit control

/** @file LexCoffeeScript.cxx

** Lexer for CoffeeScript.

**/

// Copyright 1998-2011 by Neil Hodgson <neilh@scintilla.org>

// Based on the Scintilla C++ Lexer

// Written by Eric Promislow <ericp@activestate.com> in 2011 for the Komodo IDE

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/** @file LexConf.cxx

** Lexer for Apache Configuration Files.

**

** First working version contributed by Ahmad Zawawi <ahmad.zawawi@gmail.com> on October 28, 2000.

** i created this lexer because i needed something pretty when dealing

** when Apache Configuration files...

**/

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/** @file LexCPP.cxx

** Lexer for C++, C, Java, and JavaScript.

** Further folding features and configuration properties added by "Udo Lechner" <dlchnr(at)gmx(dot)net>

**/

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/** @file LexCrontab.cxx

** Lexer to use with extended crontab files used by a powerful

** Windows scheduler/event monitor/automation manager nnCron.

** (http://nemtsev.eserv.ru/)

**/

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/** @file LexCsound.cxx

** Lexer for Csound (Orchestra & Score)

** Written by Georg Ritter - <ritterfuture A T gmail D O T com>

**/

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// Encoding: UTF-8

/** @file LexCSS.cxx

** Lexer for Cascading Style Sheets

** Written by Jakub Vrána

** Improved by Philippe Lhoste (CSS2)

** Improved by Ross McKay (SCSS mode; see http://sass-lang.com/)

**/

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/** @file LexD.cxx

** Lexer for D.

**

** Copyright (c) 2006 by Waldemar Augustyn <waldemar@wdmsys.com>

** Converted to lexer object and added further folding features/properties by "Udo Lechner" <dlchnr(at)gmx(dot)net>

**/

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/** @file LexDataflex.cxx

** Lexer for DataFlex.

** Based on LexPascal.cxx

** Written by Wil van Antwerpen, June 2019

**/

/*

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/** @file LexDiff.cxx

** Lexer for diff results.

**/

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/** @file LexDMAP.cxx

** Lexer for MSC Nastran DMAP.

** Written by Mark Robinson, based on the Fortran lexer by Chuan-jian Shen, Last changed Aug. 2013

**/

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/** @file LexDMIS.cxx

** Lexer for DMIS.

**/

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// Copyright 2013-2014 by Andreas Tscharner <andy@vis.ethz.ch>

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/** @file LexECL.cxx

** Lexer for ECL.

**/

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// Scintilla Lexer for EDIFACT

// @file LexEDIFACT.cxx

// Written by Iain Clarke, IMCSoft & Inobiz AB.

// EDIFACT documented here: https://www.unece.org/cefact/edifact/welcome.html

// and more readably here: https://en.wikipedia.org/wiki/EDIFACT

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/** @file LexEiffel.cxx

** Lexer for Eiffel.

**/

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// Encoding: UTF-8

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/** @file LexErlang.cxx

** Lexer for Erlang.

** Enhanced by Etienne 'Lenain' Girondel (lenaing@gmail.com)

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** Originally wrote by Peter-Henry Mander,

** based on Matlab lexer by José Fonseca.

**/

// Scintilla source code edit control

/** @file LexErrorList.cxx

** Lexer for error lists. Used for the output pane in SciTE.

**/

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/** @file LexEScript.cxx

** Lexer for ESCRIPT

**/

// Copyright 2003 by Patrizio Bekerle (patrizio@bekerle.com)

// Scintilla source code edit control

/** @file LexFlagship.cxx

** Lexer for Harbour and FlagShip.

** (Syntactically compatible to other xBase dialects, like Clipper, dBase, Clip, FoxPro etc.)

**/

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// Copyright 2010 by Xavi <jarabal/at/gmail.com> (Harbour)

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/** @file LexForth.cxx

** Lexer for FORTH

**/

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/** @file LexFortran.cxx

** Lexer for Fortran.

** Written by Chuan-jian Shen, Last changed Sep. 2003

**/

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/**

* @file LexFSharp.cxx

* Lexer for F# 5.0

* Copyright (c) 2021 Robert Di Pardo <dipardo.r@gmail.com>

* Parts of LexerFSharp::Lex were adapted from LexCaml.cxx by Robert Roessler ("RR").

* Parts of LexerFSharp::Fold were adapted from LexCPP.cxx by Neil Hodgson and Udo Lechner.

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*/

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/** @file LexGAP.cxx

** Lexer for the GAP language. (The GAP System for Computational Discrete Algebra)

** http://www.gap-system.org

**/

// Copyright 2007 by Istvan Szollosi (szteven <at> gmail <dot> com)

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/** @file LexGDScript.cxx

** Lexer for GDScript.

**/

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// Heavily modified later for GDScript

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// @file LexGui4Cli.cxx

/*

This is the Lexer for Gui4Cli, included in SciLexer.dll

- by d. Keletsekis, 2/10/2003

* LexHaskell.cxx

*

* A haskell lexer for the scintilla code control.

* Some stuff "lended" from LexPython.cxx and LexCPP.cxx.

* External lexer stuff inspired from the caml external lexer.

* Folder copied from Python's.

*

* Written by Tobias Engvall - tumm at dtek dot chalmers dot se

*

* Several bug fixes by Krasimir Angelov - kr.angelov at gmail.com

*

* Improved by kudah <kudahkukarek@gmail.com>

/** @file LexHex.cxx

** Lexers for Motorola S-Record, Intel HEX and Tektronix extended HEX.

**

** Written by Markus Heidelberg

**/

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/** @file LexHollywood.cxx

** Lexer for Hollywood

** Written by Andreas Falkenhahn, based on the BlitzBasic/PureBasic/Lua lexers

** Thanks to Nicholai Benalal

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** For more information on Hollywood, see http://www.hollywood-mal.com/

** Mail me (andreas <at> airsoftsoftwair <dot> de) for any bugs.

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**/

/** @file LexHTML.cxx

** Lexer for HTML.

**/

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/** @file LexIndent.cxx

** Lexer for no language. Used for indentation-based folding of files.

**/

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/** @file LexInno.cxx

** Lexer for Inno Setup scripts.

**/

// Written by Friedrich Vedder <fvedd@t-online.de>, using code from LexOthers.cxx.

// Modified by Michael Heath.

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/**

* @file LexJSON.cxx

* @date February 19, 2016

* @brief Lexer for JSON and JSON-LD formats

* @author nkmathew

*

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* be distributed.

*

```
*/
// Encoding: UTF-8
/** @file LexJulia.cxx
** Lexer for Julia.
** Reusing code from LexMatlab, LexPython and LexRust
**
** Written by Bertrand Lacoste
**
**/
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/** @file LexKix.cxx
** Lexer for KIX-Scripts.
**/
// Copyright 2004 by Manfred Becker <manfred@becker-trdf.de>
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// Edited by Lee Wilmott (24-Jun-2014) added support for block comments
/** @file LexKVIrc.cxx
** Lexer for KVIrc script.
**/
// Copyright 2013 by OmegaPhil <OmegaPhil+scintilla@gmail.com>, based in
// part from LexPython Copyright 1998-2002 by Neil Hodgson <neilh@scintilla.org>
// and LexCmake Copyright 2007 by Cristian Adam <cristian [dot] adam [at] gmx [dot] net>
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/** @file LexLaTeX.cxx
** Lexer for LaTeX2e.
**/
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```


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// Modified by G. HU in 2013. Added folding, syntax highting inside math environments, and changed some minor behaviors.

/** @file LexLisp.cxx

** Lexer for Lisp.

** Written by Alexey Yutkin.

**/

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/** @file LexLout.cxx

** Lexer for the Basser Lout (>= version 3) typesetting language

**/

// Copyright 2003 by Kein-Hong Man <mkh@pl.jaring.my>

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/** @file LexLua.cxx

** Lexer for Lua language.

**

** Written by Paul Winwood.

** Folder by Alexey Yutkin.

** Modified by Marcos E. Wurzius & Philippe Lhoste

**/

/**

* @file LexMagik.cxx

* Lexer for GE(r) Smallworld(tm) MagikSF

*/

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/** @file LexMake.cxx

** Lexer for make files.

**/

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* LexMarkdown.cxx

*

* A simple Markdown lexer for scintilla.

*

* Includes highlighting for some extra features from the

* Pandoc implementation; strikeout, using '#.' as a default

* ordered list item marker, and delimited code blocks.

*

*

* Written by Jon Strait - jstrait@moonloop.net

*

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*

// Encoding: UTF-8

/** @file LexMatlab.cxx

** Lexer for Matlab.

** Written by José Fonseca

**

** Changes by Christoph Dalitz 2003/12/04:

** - added support for Octave

** - Strings can now be included both in single or double quotes

**

** Changes by John Donoghue 2012/04/02

** - added block comment (and nested block comments)

** - added ... displayed as a comment

** - removed unused IsAWord functions

** - added some comments

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```
**
** Changes by John Donoghue 2014/08/01
** - fix allowed transpose ' after {} operator
**
** Changes by John Donoghue 2016/11/15
** - update matlab code folding
**
** Changes by John Donoghue 2017/01/18
** - update matlab block comment detection
**
** Changes by Andrey Smolyakov 2022/04/15
** - add support for "arguments" block and class definition syntax
**/
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/** @file LexMaxima.cxx
** Lexer for Maxima (http://maxima.sourceforge.net).
** Written by Gunter Königsmann based on the lisp lexer by Alexey Yutkin and Neil Hodgson .
**/
// Copyright 2018 by Gunter Königsmann <wxMaxima@physikbuch.de>
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// @file LexMetapost.cxx - general context conformant metapost coloring scheme
// Author: Hans Hagen - PRAGMA ADE - Hasselt NL - www.pragma-ade.com
// Version: September 28, 2003
// Modified by instanton: July 10, 2007
// Folding based on keywordlists[]
// Copyright: 1998-2003 by Neil Hodgson <neilh@scintilla.org>
// The License.txt file describes the conditions under which this software may be distributed.
// Encoding: UTF-8
```

/** @file LexMMIXAL.cxx

** Lexer for MMIX Assembler Language.

** Written by Christoph Hösler <christoph.hoesler@student.uni-tuebingen.de>

** For information about MMIX visit http://www-cs-faculty.stanford.edu/~knuth/mmix.html

**/

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/**

* @file LexModula.cxx

* @author Dariusz "DKnoto" Knociński

* @date 2011/02/03

* @brief Lexer for Modula-2/3 documents.

*/

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// be distributed.

/** @file LexMPT.cxx

** Lexer for MPT specific files. Based on LexOthers.cxx

** LOT = the text log file created by the MPT application while running a test program

** Other MPT specific files to be added later.

**/

// Copyright 2003 by Marius Gheorghe <mgheorghe@cabletest.com>

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/** @file LexMSSQL.cxx

** Lexer for MSSQL.

**/

// By Filip Yaghob <fyaghob@gmail.com>

// The License.txt file describes the conditions under which this software may be distributed.

* @file LexMySQL.cxx

* Lexer for MySQL

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*

* Improved by Mike Lischke <mike.lischke@oracle.com>

* Adopted from LexSQL.cxx by Anders Karlsson <anders@mysql.com>

* Original work by Neil Hodgson <neilh@scintilla.org>

* Copyright 1998-2005 by Neil Hodgson <neilh@scintilla.org>

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*/

/** @file LexNim.cxx

** Lexer for Nim

** Written by Jad Altahan (github.com/xv)

** Nim manual: https://nim-lang.org/docs/manual.html

**/

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// Nimrod lexer

// (c) 2009 Andreas Rumpf

/** @file LexNimrod.cxx

** Lexer for Nimrod.

**/

// Copyright 1998-2002 by Neil Hodgson <neilh@scintilla.org>

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/** @file LexNsis.cxx

** Lexer for NSIS

**/

// Copyright 2003 - 2005 by Angelo Mandato <angelo [at] spaceblue [dot] com>

// Last Updated: 03/13/2005

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/** @file LexNull.cxx

** Lexer for no language. Used for plain text and unrecognized files.

**/

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/** @file LexOpal.cxx

** Lexer for OPAL (functional language similar to Haskell)

** Written by Sebastian Pipping <webmaster@hartwork.org>

**/

/** @file LexOScript.cxx

** Lexer for OScript sources; ocx files and/or OSpace dumps.

** OScript is a programming language used to develop applications for the

** Livelink server platform.

**/

// Written by Ferdinand Prantl <prantlf@gmail.com>, inspired by the code from

// LexVB.cxx and LexPascal.cxx. The License.txt file describes the conditions

// under which this software may be distributed.

/** @file LexPascal.cxx

** Lexer for Pascal.

** Written by Laurent le Tynevez

** Updated by Simon Steele <s.steele@pnotepad.org> September 2002

** Updated by Mathias Rauen <scite@madshi.net> May 2003 (Delphi adjustments)

** Completely rewritten by Marko Njezic <sf@maxempire.com> October 2008

**/

// @file LexPB.cxx

// Lexer for PowerBasic by Roland Walter, roland@rowalt.de (for PowerBasic see www.powerbasic.com)

//

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/** @file LexPerl.cxx

** Lexer for Perl.

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** Converted to lexer object by "Udo Lechner" <dlchnr(at)gmx(dot)net>

**/

// Copyright 1998-2008 by Neil Hodgson <neilh@scintilla.org>

// Lexical analysis fixes by Kein-Hong Man <mkh@pl.jaring.my>

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// @file LexPLM.cxx

// Author: Jason Haslam

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/** @file LexPO.cxx

** Lexer for GetText Translation (PO) files.

**/

// Copyright 2012 by Colomban Wendling <ban@herbesfolles.org>

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/** @file LexPOV.cxx

** Lexer for POV-Ray SDL (Persistance of Vision Raytracer, Scene Description Language).

** Written by Philippe Lhoste but this is mostly a derivative of LexCPP...

**/

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// @file LexPowerPro.cxx

// PowerPro utility, written by Bruce Switzer, is available from http://powerpro.webeddie.com

// PowerPro lexer is written by Christopher Bean (cbean@cb-software.net)

//

// Lexer code heavily borrowed from:

// LexAU3.cxx by Jos van der Zande

// LexCPP.cxx by Neil Hodgson

// LexVB.cxx by Neil Hodgson

//

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/** @file LexPowerShell.cxx

** Lexer for PowerShell scripts.

**/

// Copyright 2008 by Tim Gerundt <tim@gerundt.de>

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/** @file LexProgress.cxx

** Lexer for Progress 4GL.

** Based on LexCPP.cxx of Neil Hodgson <neilh@scintilla.org>

**/

// Copyright 2006-2016 by Yuval Papish <Yuval@YuvCom.com>

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/** @file LexProps.cxx

** Lexer for properties files.

**/

// Copyright 1998-2001 by Neil Hodgson <neilh@scintilla.org>

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/** @file LexPS.cxx

** Lexer for PostScript

**

** Written by Nigel Hathaway <nigel@bprj.co.uk>.

** The License.txt file describes the conditions under which this software may be distributed.

**/

/** @file LexPython.cxx

** Lexer for Python.

**/

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/** @file LexR.cxx

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** Lexer for R, S, SPlus Statistics Program (Heavily derived from CPP Lexer).

**

**/

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/** @file LexRaku.cxx

** Lexer for Raku

**

** Copyright (c) 2019 Mark Reay <mark@reay.net.au>

**/

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/** @file LexRebol.cxx

** Lexer for REBOL.

** Written by Pascal Hurni, inspired from LexLua by Paul Winwood & Marcos E. Wurzius & Philippe Lhoste

**

** History:

** 2005-04-07 First release.

** 2005-04-10 Closing parens and brackets go now in default style

** String and comment nesting should be more safe

**/

// Copyright 2005 by Pascal Hurni <pascal_hurni@fastmail.fm>

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/**

* @file LexRegistry.cxx

* @date July 26 2014

* @brief Lexer for Windows registration files(.reg)

* @author nkmathew

*

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* distributed.

*

*/

/** @file LexRuby.cxx

** Lexer for Ruby.

**/

// Copyright 2001- by Clemens Wyss <wys@helbling.ch>

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** Lexer for Rust.

**

** Copyright (c) 2013 by SiegeLord <slabode@aim.com>

** Converted to lexer object and added further folding features/properties by "Udo Lechner" <dlchnr(at)gmx(dot)net>

**/

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/** @file LexSAS.cxx

** Lexer for SAS

**/

// Author: Luke Rasmussen (luke.rasmussen@gmail.com)

//

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/** @file LexSmalltalk.cxx

** Lexer for Smalltalk language.

** Written by Sergey Philippov, sphilippov-at-gmail-dot-com

**/

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/** @file LexSML.cxx

** Lexer for SML.

**/

// Copyright 2009 by James Moffatt and Yuzhou Xin

// Modified from LexCaml.cxx by Robert Roessler <robertr@rftp.com> Copyright 2005

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// Scintilla source code edit control

/** @file LexSorcus.cxx

** Lexer for SORCUS installation files

** Written by Eugen Bitter and Christoph Baumann at SORCUS Computer, Heidelberg Germany

** Based on the ASM Lexer by The Black Horus

**/

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// Scintilla source code edit control

/** @file LexSpecman.cxx

** Lexer for Specman E language.

** Written by Avi Yegudin, based on C++ lexer by Neil Hodgson

**/

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/** @file LexSpice.cxx

** Lexer for Spice

**/

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//-*- coding: utf-8 -*-

// Scintilla source code edit control

/** @file LexSQL.cxx

** Lexer for SQL, including PL/SQL and SQL*Plus.

** Improved by Jérôme LAFORGE <jerome.laforge_AT_gmail_DOT_com> from 2010 to 2012.

**/

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// Scintilla source code edit control

/** @file LexStata.cxx

** Lexer for Stata

**/

// Author: Luke Rasmussen (luke.rasmussen@gmail.com)

//

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// be distributed.

//

// Developed as part of the StatTag project at Northwestern University Feinberg

// School of Medicine with funding from Northwestern University Clinical and

// Translational Sciences Institute through CTSA grant UL1TR001422. This work

// has not been reviewed or endorsed by NCATS or the NIH.

// Scintilla source code edit control

/** @file LexSTTXT.cxx

** Lexer for Structured Text language.

** Written by Pavel Bulochkin

**/

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// Scintilla source code edit control

/** @file LexTACL.cxx

** Lexer for TACL

** Based on LexPascal.cxx

** Written by Laurent le Tynevez

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** Updated by Simon Steele <s.steele@pnotepad.org> September 2002

** Updated by Mathias Rauen <scite@madshi.net> May 2003 (Delphi adjustments)

** Updated by Rod Falck, Aug 2006 Converted to TACL

**/

// Scintilla source code edit control

/** @file LexTADS3.cxx

** Lexer for TADS3.

**/

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/*

* TADS3 is a language designed by Michael J. Roberts for the writing of text

* based games. TADS comes from Text Adventure Development System. It has good

* support for the processing and outputting of formatted text and much of a

* TADS program listing consists of strings.

*

* TADS has two types of strings, those enclosed in single quotes (') and those

* enclosed in double quotes ("). These strings have different symantics and

* can be given different highlighting if desired.

*

* There can be embedded within both types of strings html tags

* (<tag key=value>), library directives (<.directive>), and message

* parameters ({The doctor's/his}).

*

* Double quoted strings can also contain interpolated expressions

* (<< rug.moved ? ' and a hole in the floor. ' : nil >>). These expressions

* may themselves contain single or double quoted strings, although the double

* quoted strings may not contain interpolated expressions.

*

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* These embedded constructs influence the output and formatting and are an

* important part of a program and require highlighting.

*

* LINKS

* http://www.tads.org/

*/

// Scintilla source code edit control

/** @file LexTAL.cxx

** Lexer for TAL

** Based on LexPascal.cxx

** Written by Laurent le Tynevez

** Updated by Simon Steele <s.steele@pnotepad.org> September 2002

** Updated by Mathias Rauen <scite@madshi.net> May 2003 (Delphi adjustments)

** Updated by Rod Falck, Aug 2006 Converted to TAL

**/

// Scintilla source code edit control

/** @file LexTCL.cxx

** Lexer for TCL language.

**/

// Copyright 1998-2001 by Andre Arpin <arpin@kingston.net>

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// Scintilla\ source code edit control

/** @file LexTCMD.cxx

** Lexer for Take Command / TCC batch scripts (.bat, .btm, .cmd).

**/

// Written by Rex Conn (rconn [at] jpsoft [dot] com)

// based on the CMD lexer

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// Scintilla source code edit control

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// @file LexTeX.cxx - general context conformant tex coloring scheme

// Author: Hans Hagen - PRAGMA ADE - Hasselt NL - www.pragma-ade.com

// Version: September 28, 2003

// Copyright: 1998-2003 by Neil Hodgson <neilh@scintilla.org>

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// This lexer is derived from the one written for the texwork environment (1999++) which in

// turn is inspired on texedit (1991++) which finds its roots in wdt (1986).

// If you run into strange boundary cases, just tell me and I'll look into it.

// TeX Folding code added by instanton (soft_share@126.com) with borrowed code from VisualTeX source by Alex Romanenko.

// Version: June 22, 2007

/**

* LexTxt2tags.cxx

*

* A simple Txt2tags lexer for scintilla.

*

*

* Adapted by Eric Forgeot

* Based on the LexMarkdown.cxx by Jon Strait - jstrait@moonloop.net

*

* What could be improved:

* - Verbatim lines could be like for raw lines : when there is no space between the ``` and the following text, the first letter should be colored so the user would understand there must be a space for a valid tag.

* - marks such as bold, italic, strikeout, underline should begin to be highlighted only when they are closed and valid.

* - verbatim and raw area should be highlighted too.

*

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*

// Scintilla source code edit control

/** @file LexVB.cxx

** Lexer for Visual Basic and VBScript.

**/

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// Scintilla source code edit control

/** @file LexVerilog.cxx

** Lexer for Verilog.

** Written by Avi Yegudin, based on C++ lexer by Neil Hodgson

**/

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// Scintilla source code edit control

/** @file LexVHDL.cxx

** Lexer for VHDL

** Written by Phil Reid,

** Based on:

** - The Verilog Lexer by Avi Yegudin

** - The Fortran Lexer by Chuan-jian Shen

** - The C++ lexer by Neil Hodgson

**/

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/** @file LexVisualProlog.cxx

** Lexer for Visual Prolog.

**/

// Author Thomas Linder Puls, Prolog Development Denter A/S, http://www.visual-prolog.com

// Based on Lexer for C++, C, Java, and JavaScript.

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// Scintilla Lexer for X12

// @file LexX12.cxx

// Written by Iain Clarke, IMCSoft & Inobiz AB.

// X12 official documentation is behind a paywall, but there's a description of the syntax here:

// http://www.rawlinsecconsulting.com/x12tutorial/x12syn.html

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//

// Scintilla source code edit control

/** @file LexYAML.cxx

** Lexer for YAML.

**/

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```

### AUTHORS File Information

```

libffi was originally written by Anthony Green <green@moxielogic.com>.

The developers of the GNU Compiler Collection project have made
innumerable valuable contributions. See the ChangeLog file for
details.

Some of the ideas behind libffi were inspired by Gianni Mariani's free
gencall library for Silicon Graphics machines.

The closure mechanism was designed and implemented by Kresten Krab
Thorup.

Major processor architecture ports were contributed by the following
developers:

aarch64 Marcus Shawcroft, James Greenhalgh

x86 Anthony Green, Jon Beniston

x86-64 Bo Thorsen

Jesper Skov and Andrew Haley both did more than their fair share of
stepping through the code and tracking down bugs.

Thanks also to Tom Tromey for bug fixes, documentation and
configuration help.

Thanks to Jim Blandy, who provided some useful feedback on the libffi
interface.

Alex Oliva solved the executable page problem for SElinux.

```

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The following attribution text was taken from Component libssh2 Version 1.7.0.

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```

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---

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Files:

PRESUBMIT.py

infra/common.sh

infra/compile.sh

infra/compile_android.sh

infra/compile_js.sh

infra/run_static_analysis.sh

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Files:

sharpyuv/sharpyuv_dsp.h

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Speed-critical functions for Sharp YUV.

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Files:

imageio/image_enc.h

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All-in-one library to save PNG/JPEG/WebP/TIFF/WIC images.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/cost_sse2.c

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SSE2 version of cost functions

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/dec_clip_tables.c

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Clipping tables for filtering

Author: Skal (pascal.massimino@gmail.com)

Files:

src/webp/format_constants.h

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Internal header for constants related to WebP file format.

Author: Urvang (urvang@google.com)

Files:

src/dsp/cost_mips32.c

src/dsp/cost_mips_dsp_r2.c

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Author: Djordje Pesut (djordje.pesut@imgtec.com)

Files:

extras/extras.h

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Files:

src/dsp/filters.c

src/utils/filters_utils.h

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Spatial prediction using various filters

Author: Urvang (urvang@google.com)

Files:

src/utils/bit_writer_utils.c

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Bit writing and boolean coder

Author: Skal (pascal.massimino@gmail.com)

Vikas Arora (vikaas.arora@gmail.com)

Files:

src/enc/alpha_enc.c

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Alpha-plane compression.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/webp/mux.h

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RIFF container manipulation and encoding for WebP images.

Authors: Urvang (urvang@google.com)

Vikas (vikasa@google.com)

Files:

sharpyuv/sharpyuv_csp.c

sharpyuv/sharpyuv_csp.h

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Colorspace utilities.

Files:

src/dsp/rescaler_sse2.c

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SSE2 Rescaling functions

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/vp8i_dec.h

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VP8 decoder: internal header.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/quant_dec.c

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Quantizer initialization

Author: Skal (pascal.massimino@gmail.com)

Files:

src/enc/syntax_enc.c

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Header syntax writing

Author: Skal (pascal.massimino@gmail.com)

Files:

ltmain.sh

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Files:
src/dsp/filters_mips_dsp_r2.c
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Spatial prediction using various filters
Author(s): Branimir Vasic (branimir.vasic@imgtec.com)
Djordje Pesut (djordje.pesut@imgtec.com)
Files:
src/mux/animi.h
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Internal header for animation related functions.
Author: Hui Su (huisu@google.com)
Files:
src/dsp/upsampling_mips_dsp_r2.c
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YUV to RGB upsampling functions.
Author(s): Branimir Vasic (branimir.vasic@imgtec.com)
Djordje Pesut (djordje.pesut@imgtec.com)
Files:
src/utils/utils.h
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Misc. common utility functions
Authors: Skal (pascal.massimino@gmail.com)
Urvang (urvang@google.com)
Files:
tests/fuzzer/animdecoder_fuzzer.cc
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//

Files:

examples/anim_diff.c

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Checks if given pair of animated GIF/WebP images are identical:

That is: their reconstructed canvases match pixel-by-pixel and their other

animation properties (loop count etc) also match.

example: anim_diff foo.gif bar.webp

Files:

src/dec/vp8l_dec.c

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---

main entry for the decoder

Authors: Vikas Arora (vikaas.arora@gmail.com)

Jyrki Alakuijala (jyrki@google.com)

Files:

src/mux/muxi.h

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Internal header for mux library.

Author: Urvang (urvang@google.com)

Files:

src/utils/bit_writer_utils.h

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Bit writing and boolean coder

Author: Skal (pascal.massimino@gmail.com)

Files:

src/utils/color_cache_utils.h

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Color Cache for WebP Lossless

Authors: Jyrki Alakuijala (jyrki@google.com)

Urvang Joshi (urvang@google.com)

Files:

tests/fuzzer/advanced_api_fuzzer.c

tests/fuzzer/animation_api_fuzzer.c

tests/fuzzer/animencoder_fuzzer.cc

tests/fuzzer/enc_dec_fuzzer.cc

tests/fuzzer/fuzz_utils.h

tests/fuzzer/img_alpha.h

tests/fuzzer/img_grid.h

tests/fuzzer/img_peak.h

tests/fuzzer/mux_demux_api_fuzzer.c

tests/fuzzer/simple_api_fuzzer.c

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Files:

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Boolean decoder

Author: Skal (pascal.massimino@gmail.com)

Vikas Arora (vikaas.arora@gmail.com)

Files:

src/dsp/alpha_processing_mips_dsp_r2.c

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Utilities for processing transparent channel.

Author(s): Branimir Vasic (branimir.vasic@imgtec.com)

Djordje Pesut (djordje.pesut@imgtec.com)

Files:

imageio/wicdec.c

imageio/wicdec.h

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Windows Imaging Component (WIC) decode.

Files:

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Speed-critical decoding functions, default plain-C implementations.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless_mips_dsp_r2.c

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Image transforms and color space conversion methods for lossless decoder.

Author(s): Djordje Pesut (djordje.pesut@imgtec.com)

Jovan Zelincevic (jovan.zelincevic@imgtec.com)

Files:

src/dsp/filters_neon.c

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NEON variant of alpha filters

Author: Skal (pascal.massimino@gmail.com)

Files:

src/enc/vp8l_enc.c

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---

main entry for the lossless encoder.

Author: Vikas Arora (vikaas.arora@gmail.com)

Files:

src/dsp/lossless_msa.c

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MSA variant of methods for lossless decoder

Author: Prashant Patil (prashant.patil@imgtec.com)

Files:

src/dsp/enc.c

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Speed-critical encoding functions.

Author: Skal (pascal.massimino@gmail.com)

Files:

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Author: Skal (pascal.massimino@gmail.com)

Files:

src/utils/quant_levels_dec_utils.c

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Implement gradient smoothing: we replace a current alpha value by its
surrounding average if it's close enough (that is: the change will be less
than the minimum distance between two quantized level).
We use sliding window for computing the 2d moving average.
Author: Skal (pascal.massimino@gmail.com)
Files:
src/dec/alpha_dec.c
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Alpha-plane decompression.
Author: Skal (pascal.massimino@gmail.com)
Files:
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Demux API.

Enables extraction of image and extended format data from WebP files.

Files:

extras/get_disto.c

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Simple tool to load two webp/png/jpg/tiff files and compute PSNR/SSIM.

This is mostly a wrapper around WebPPictureDistortion().

Files:

src/dsp/upsampling_sse41.c

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SSE41 version of YUV to RGB upsampling functions.

Author: somnath@google.com (Somnath Banerjee)

Files:

sharpyuv/sharpyuv_cpu.c

sharpyuv/sharpyuv_cpu.h

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imageio/image_dec.h

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All-in-one library to decode PNG/JPEG/WebP/TIFF/WIC input images.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless.c

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Image transforms and color space conversion methods for lossless decoder.

Authors: Vikas Arora (vikaas.arora@gmail.com)

Jyrki Alakuijala (jyrki@google.com)

Urvang Joshi (urvang@google.com)

Files:

src/dsp/yuv_sse2.c

src/dsp/yuv_sse41.c

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YUV->RGB conversion functions

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless_common.h

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Image transforms and color space conversion methods for lossless decoder.

Authors: Vikas Arora (vikaas.arora@gmail.com)

Jyrki Alakuijala (jyrki@google.com)

Vincent Rabaud (vrabaud@google.com)

Files:

src/dsp/rescaler_msa.c

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MSA version of rescaling functions

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Author: Prashant Patil (prashant.patil@imgtec.com)

Files:

src/mux/anim_encode.c

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AnimEncoder implementation.

Files:

src/utils/huffman_utils.c

src/utils/huffman_utils.h

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Utilities for building and looking up Huffman trees.

Author: Urvang Joshi (urvang@google.com)

Files:

src/dsp/lossless_enc_mips_dsp_r2.c

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Image transform methods for lossless encoder.

Author(s): Djordje Pesut (djordje.pesut@imgtec.com)

Jovan Zelincevic (jovan.zelincevic@imgtec.com)

Files:

src/utils/thread_utils.c

src/utils/thread_utils.h

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Multi-threaded worker

Author: Skal (pascal.massimino@gmail.com)

Files:

imageio/image_dec.c

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Generic image-type guessing.

Files:

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src/utils/color_cache_utils.c

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Color Cache for WebP Lossless

Author: Jyrki Alakuijala (jyrki@google.com)

Files:

src/dec/vp8li_dec.h

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Lossless decoder: internal header.

Author: Skal (pascal.massimino@gmail.com)

Vikas Arora(vikaas.arora@gmail.com)

Files:

src/dsp/dec_neon.c

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ARM NEON version of dsp functions and loop filtering.

Authors: Somnath Banerjee (somnath@google.com)

Johann Koenig (johannkoenig@google.com)

Files:

src/dsp/quant.h

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SSE2 version of distortion calculation

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/common_dec.h

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Definitions and macros common to encoding and decoding
Author: Skal (pascal.massimino@gmail.com)
Files:
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Files:
examples/unicode_gif.h
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---

giflib doesn't have a Unicode DGifOpenFileName(). Let's make one.
Author: Yannis Guyon (yguyon@google.com)
Files:
src/dec/webpi_dec.h
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Internal header: WebP decoding parameters and custom IO on buffer
Author: somnath@google.com (Somnath Banerjee)
Files:
examples/img2webp.c
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---

generate an animated WebP out of a sequence of images
(PNG, JPEG, ...)
Example usage:
img2webp -o out.webp -q 40 -mixed -duration 40 input??.png
Author: skal@google.com (Pascal Massimino)
Files:
src/webp/mux_types.h
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be found in the AUTHORS file in the root of the source tree.

Data-types common to the mux and demux libraries.

Author: Urvang (urvang@google.com)

Files:

src/dsp/enc_neon.c

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ARM NEON version of speed-critical encoding functions.

adapted from libvpx (https://www.webmproject.org/code/)

Files:

src/enc/picture_tools_enc.c

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WebPPicture tools: alpha handling, etc.

Author: Skal (pascal.massimino@gmail.com)

Files:

imageio/pnmdec.h

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---

partial PNM format decoder (ppm/pgm)

Files:

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Speed-critical functions.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/enc/histogram_enc.h

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Author: Jyrki Alakuijala (jyrki@google.com)

Models the histograms of literal and distance codes.

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Files:

src/utils/quant_levels_dec_utils.h

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Alpha plane de-quantization utility

Author: Vikas Arora (vikasa@google.com)

Files:

src/utils/huffman_encode_utils.h

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Author: Jyrki Alakuijala (jyrki@google.com)

Entropy encoding (Huffman) for webp lossless

Files:

imageio/imageio_util.c

imageio/imageio_util.h

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Utility functions used by the image decoders.

Files:

src/enc/picture_csp_enc.c

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WebPPicture utils for colorspace conversion

Author: Skal (pascal.massimino@gmail.com)

Files:

examples/cwebp.c

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---

simple command line calling the WebPEncode function.
Encodes a raw .YUV into WebP bitstream

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/io_dec.c

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---

functions for sample output.

Author: Skal (pascal.massimino@gmail.com)

Files:

examples/dwebp.c

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Command-line tool for decoding a WebP image.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/enc/backward_references_cost_enc.c

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Improves a given set of backward references by analyzing its bit cost.

The algorithm is similar to the Zopfli compression algorithm but tailored to

images.

Author: Vincent Rabaud (vrabaud@google.com)

Files:

src/enc/filter_enc.c

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Selecting filter level

Author: somnath@google.com (Somnath Banerjee)

Files:

src/enc/config_enc.c

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Coding tools configuration

Author: Skal (pascal.massimino@gmail.com)

Files:

imageio/webpdec.c

imageio/webpdec.h

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WebP decode.

Files:

src/dsp/lossless_neon.c

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NEON variant of methods for lossless decoder

Author: Skal (pascal.massimino@gmail.com)

Files:

sharpyuv/sharpyuv_gamma.c

sharpyuv/sharpyuv_gamma.h

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Gamma correction utilities.

Files:

src/dsp/dec_msa.c

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MSA version of dsp functions

Author(s): Prashant Patil (prashant.patil@imgtec.com)

Files:

imageio/tiffdec.c

imageio/tiffdec.h

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TIFF decode.

Files:

src/webp/decode.h

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Main decoding functions for WebP images.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/vp8_dec.h

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Low-level API for VP8 decoder

Author: Skal (pascal.massimino@gmail.com)

Files:

examples/gifdec.h

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GIF decode.

Files:

ltmain.sh

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Files:

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Image transforms and color space conversion methods for lossless decoder.

Authors: Vikas Arora (vikaas.arora@gmail.com)

Jyrki Alakuijala (jyrki@google.com)

Files:

src/dsp/mips_macro.h

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MIPS common macros

Files:

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NEON version of rescaling functions
Author: Skal (pascal.massimino@gmail.com)
Files:
src/dsp/msa_macro.h
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MSA common macros
Author(s): Prashant Patil (prashant.patil@imgtec.com)
Files:
src/dec/frame_dec.c
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Frame-reconstruction function. Memory allocation.
Author: Skal (pascal.massimino@gmail.com)
Files:

src/dsp/yuv_mips32.c

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MIPS version of YUV to RGB upsampling functions.

Author(s): Djordje Pesut (djordje.pesut@imgtec.com)

Jovan Zelincevic (jovan.zelincevic@imgtec.com)

Files:

src/enc/iterator_enc.c

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VP8Iterator: block iterator

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/enc_msa.c

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MSA version of encoder dsp functions.

Author: Prashant Patil (prashant.patil@imgtec.com)

Files:

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Boolean decoder non-inlined methods

Author: Skal (pascal.massimino@gmail.com)

Files:

examples/gif2webp.c

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---

simple tool to convert animated GIFs to WebP

Authors: Skal (pascal.massimino@gmail.com)

Urvang (urvang@google.com)

Files:

extras/webp_to_sdl.c

extras/webp_to_sdl.h

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Simple WebP-to-SDL wrapper. Useful for emscripten.

Author: James Zern (jzern@google.com)

Files:

src/enc/picture_psnr_enc.c

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WebPPicture tools for measuring distortion

Author: Skal (pascal.massimino@gmail.com)

Files:

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SSE4 version of some encoding functions.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/yuv_neon.c

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YUV->RGB conversion functions

Author: Skal (pascal.massimino@gmail.com)

Files:

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Misc. common utility functions

Author: Skal (pascal.massimino@gmail.com)

Files:

examples/anim_dump.c

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Decodes an animated WebP file and dumps the decoded frames as PNG or TIFF.
Author: Skal (pascal.massimino@gmail.com)
Files:
src/dsp/ssim.c
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distortion calculation
Author: Skal (pascal.massimino@gmail.com)
Files:
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WebP container demux.
Files:

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src/dsp/filters_msa.c

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MSA variant of alpha filters

Author: Prashant Patil (prashant.patil@imgtec.com)

Files:

src/dec/vp8_dec.c

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main entry for the decoder

Author: Skal (pascal.massimino@gmail.com)

Files:

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Cost tables for level and modes

Author: Skal (pascal.massimino@gmail.com)

Files:

imageio/pnmdec.c

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(limited) PNM decoder

Files:

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Everything about WebPDecBuffer

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/rescaler_mips32.c

src/dsp/rescaler_mips_dsp_r2.c

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MIPS version of rescaling functions
Author(s): Djordje Pesut (djordje.pesut@imgtec.com)
Files:
src/dsp/alpha_processing_sse2.c

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Utilities for processing transparent channel.
Author: Skal (pascal.massimino@gmail.com)
Files:
extras/vwebp_sdl.c

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Simple SDL-based WebP file viewer.
Does not support animation, just static images.

Press 'q' to exit.

Author: James Zern (jzern@google.com)

Files:

src/dsp/lossless_sse2.c

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SSE2 variant of methods for lossless decoder

Author: Skal (pascal.massimino@gmail.com)

Files:

src/webp/types.h

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Common types + memory wrappers

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless_enc_msa.c

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MSA variant of Image transform methods for lossless encoder.

Authors: Prashant Patil (Prashant.Patil@imgtec.com)

Files:

src/webp/encode.h

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WebP encoder: main interface

Author: Skal (pascal.massimino@gmail.com)

Files:

imageio/image_enc.c

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Save image

Files:

examples/gifdec.c

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GIF decode.

Files:

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Internal objects and utils for mux.

Authors: Urvang (urvang@google.com)

Vikas (vikasa@google.com)

Files:

examples/webpinfo.c

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Command-line tool to print out the chunk level structure of WebP files

along with basic integrity checks.

Author: Hui Su (huisu@google.com)

Files:

src/dsp/common_sse41.h

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SSE4 code common to several files.

Author: Vincent Rabaud (vrabaud@google.com)

Files:

src/enc/analysis_enc.c

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Macroblock analysis

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/yuv_mips_dsp_r2.c

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MIPS DSPr2 version of YUV to RGB upsampling functions.
Author(s): Branimir Vasic (branimir.vasic@imgtec.com)
Djordje Pesut (djordje.pesut@imgtec.com)
Files:
src/enc/token_enc.c
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Paginated token buffer
A 'token' is a bit value associated with a probability, either fixed
or a later-to-be-determined after statistics have been collected.
For dynamic probability, we just record the slot id (idx) for the probability
value in the final probability array (uint8_t* probas in VP8EmitTokens).
Author: Skal (pascal.massimino@gmail.com)
Files:
src/utils/quant_levels_utils.h
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Alpha plane quantization utility

Author: Vikas Arora (vikasa@google.com)

Files:

sharpyuv/sharpyuv_dsp.c

sharpyuv/sharpyuv_neon.c

sharpyuv/sharpyuv_sse2.c

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Speed-critical functions for Sharp YUV.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/upsampling.c

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YUV to RGB upsampling functions.

Author: somnath@google.com (Somnath Banerjee)

Files:

src/dec/idec_dec.c

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Incremental decoding

Author: somnath@google.com (Somnath Banerjee)

Files:

src/dsp/dec_mips32.c

src/dsp/dec_mips_dsp_r2.c

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MIPS version of dsp functions

Author(s): Djordje Pesut (djordje.pesut@imgtec.com)

Jovan Zelincevic (jovan.zelincevic@imgtec.com)

Files:

src/enc/picture_rescale_enc.c

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WebPPicture tools: copy, crop, rescaling and view.
Author: Skal (pascal.massimino@gmail.com)
Files:
examples/stopwatch.h
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Helper functions to measure elapsed time.
Author: Mikolaj Zalewski (mikolajz@google.com)
Files:
src/enc/vp8li_enc.h
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Lossless encoder: internal header.
Author: Vikas Arora (vikaas.arora@gmail.com)
Files:

examples/webpmux.c

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Simple command-line to create a WebP container file and to extract or strip

relevant data from the container file.

Authors: Vikas (vikaas.arora@gmail.com),

Urvang (urvang@google.com)

Files:

src/dsp/cpu.c

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CPU detection

Author: Christian Duvivier (cduvivier@google.com)

Files:

src/dsp/common_sse2.h

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SSE2 code common to several files.

Author: Vincent Rabaud (vrabaud@google.com)

Files:

src/enc/quant_enc.c

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Quantization

Author: Skal (pascal.massimino@gmail.com)

Files:

extras/extras.c

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Additional WebP utilities.

Files:

src/utils/quant_levels_utils.c

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Quantize levels for specified number of quantization-levels ([2, 256]).
Min and max values are preserved (usual 0 and 255 for alpha plane).
Author: Skal (pascal.massimino@gmail.com)
Files:
src/enc/cost_enc.h
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Cost tables for level and modes.
Author: Skal (pascal.massimino@gmail.com)
Files:
src/enc/near_lossless_enc.c
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Near-lossless image preprocessing adjusts pixel values to help
compressibility with a guarantee of maximum deviation between original and
resulting pixel values.
Author: Jyrki Alakuijala (jyrki@google.com)
Converted to C by Aleksander Kramarz (akramarz@google.com)
Files:
src/utils/bit_reader_inl_utils.h
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Specific inlined methods for boolean decoder [VP8GetBit() ...]
This file should be included by the .c sources that actually need to call
these methods.
Author: Skal (pascal.massimino@gmail.com)
Files:
examples/example_util.c
examples/example_util.h
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Utility functions used by the example programs.

Files:

src/utils/huffman_encode_utils.c

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Author: Jyrki Alakuijala (jyrki@google.com)

Entropy encoding (Huffman) for webp lossless.

Files:

src/dsp/upsampling_neon.c

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NEON version of YUV to RGB upsampling functions.

Author: mans@mansr.com (Mans Rullgard)

Based on SSE code by: somnath@google.com (Somnath Banerjee)

Files:

src/dsp/neon.h

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NEON common code.

Files:

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SSE2 version of some decoding functions (idct, loop filtering).

Author: somnath@google.com (Somnath Banerjee)
cduvivier@google.com (Christian Duvivier)

Files:

src/utils/filters_utils.c

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---

filter estimation

Author: Urvang (urvang@google.com)

Files:

ltmain.sh

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Files:
src/dsp/lossless_enc_mips32.c
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MIPS version of lossless functions
Author(s): Djordje Pesut (djordje.pesut@imgtec.com)
Jovan Zelincevic (jovan.zelincevic@imgtec.com)
Files:
src/utils/random_utils.c
src/utils/random_utils.h

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Pseudo-random utilities

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/alpha_processing_neon.c

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Utilities for processing transparent channel, NEON version.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/enc_mips32.c

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MIPS version of speed-critical encoding functions.

Author(s): Djordje Pesut (djordje.pesut@imgtec.com)

Jovan Zelincevic (jovan.zelincevic@imgtec.com)

Slobodan Prijic (slobodan.prijic@imgtec.com)

Files:

src/enc/vp8i_enc.h

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WebP encoder: internal header.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/filters_sse2.c

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SSE2 variant of alpha filters

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless_enc_sse41.c

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SSE4.1 variant of methods for lossless encoder
Author: Skal (pascal.massimino@gmail.com)
Files:
src/enc/predictor_enc.c
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Image transform methods for lossless encoder.
Authors: Vikas Arora (vikaas.arora@gmail.com)
Jyrki Alakuijala (jyrki@google.com)
Urvang Joshi (urvang@google.com)
Vincent Rabaud (vrabaud@google.com)
Files:
src/mux/muxread.c
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Files:

extras/quality_estimate.c

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VP8EstimateQuality(): rough encoding quality estimate

Author: Skal (pascal.massimino@gmail.com)

Files:

examples/anim_util.c

examples/anim_util.h

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Utilities for animated images

Files:

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MSA version of YUV to RGB upsampling functions.

Author: Prashant Patil (prashant.patil@imgtec.com)

Files:

src/dsp/lossless_enc_sse2.c

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SSE2 variant of methods for lossless encoder

Author: Skal (pascal.massimino@gmail.com)

Files:

swig/libwebp.swig

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---

libwebp swig interface definition

Author: James Zern (jzern@google.com)

Files:

src/utils/rescaler_utils.c

src/utils/rescaler_utils.h

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Rescaling functions

Author: Skal (pascal.massimino@gmail.com)

Files:

src/demux/anim_decode.c

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AnimDecoder implementation.

Files:

src/enc/backward_references_enc.c

src/enc/backward_references_enc.h

src/enc/histogram_enc.c

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Author: Jyrki Alakuijala (jyrki@google.com)

Files:

src/enc/tree_enc.c

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Coding of token probabilities, intra modes and segments.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/cost_neon.c

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ARM NEON version of cost functions

Files:

src/enc/picture_enc.c

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WebPPicture class basis

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/webp_dec.c

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Main decoding functions for WEBP images.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless_enc.c

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Image transform methods for lossless encoder.

Authors: Vikas Arora (vikaas.arora@gmail.com)

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Jyrki Alakuijala (jyrki@google.com)

Urvang Joshi (urvang@google.com)

Files:

imageio/pngdec.c

imageio/pngdec.h

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PNG decode.

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Coding trees and probas

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/lossless_sse41.c

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SSE41 variant of methods for lossless decoder

Files:

src/dsp/enc_mips_dsp_r2.c

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MIPS version of speed-critical encoding functions.

Author(s): Darko Laus (darko.laus@imgtec.com)

Mirko Raus (mirko.raus@imgtec.com)

Files:

ltmain.sh

func_version

Echo version message to standard output and exit.

The version message is extracted from the calling file's header
comments, with leading '# ' stripped:

1. First display the progname and version

2. Followed by the header comment line matching /^# Written by /

3. Then a blank line followed by the first following line matching
/^# Copyright /

4. Immediately followed by any lines between the previous matches,

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except lines preceding the intervening completely blank line.

For example, see the header comments of this file.

Files:

sharpyuv/sharpyuv.h

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Sharp RGB to YUV conversion.

Files:

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YUV->RGB conversion functions

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/cpu.h

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CPU detection functions and macros.

Author: Skal (pascal.massimino@gmail.com)

Files:

sharpyuv/sharpyuv.c

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Sharp RGB to YUV conversion.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/upsampling_sse2.c

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SSE2 version of YUV to RGB upsampling functions.

Author: somnath@google.com (Somnath Banerjee)

Files:

src/utils/endian_inl_utils.h

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Endian related functions.

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Simple OpenGL-based WebP file viewer.

Author: Skal (pascal.massimino@gmail.com)

Files:

imageio/jpegdec.c

imageio/jpegdec.h

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JPEG decode.

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Utilities for processing transparent channel, SSE4.1 variant.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/enc/webp_enc.c

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WebP encoder: main entry point

Author: Skal (pascal.massimino@gmail.com)

Files:

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Metadata types and functions.

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Files:

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frame coding and analysis

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dsp/dec_sse41.c

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SSE4 version of some decoding functions.

Author: Skal (pascal.massimino@gmail.com)

Files:

src/dec/alphai_dec.h

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Alpha decoder: internal header.

Author: Urvang (urvang@google.com)

Files:

src/dsp/alpha_processing.c

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Utilities for processing transparent channel.

Author: Skal (pascal.massimino@gmail.com)

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Set and delete APIs for mux.

Authors: Urvang (urvang@google.com)

Vikas (vikasa@google.com)

Files:

ltmain.sh

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Files:

examples/unicode.h

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Unicode support for Windows. The main idea is to maintain an array of Unicode

arguments (wargv) and use it only for file paths. The regular argv is used
for everything else.
Author: Yannis Guyon (yguyon@google.com)
Files:
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SSE2 version of speed-critical encoding functions.
Author: Christian Duvivier (cduvivier@google.com)
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Rescaling functions
Author: Skal (pascal.massimino@gmail.com)
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* https://github.com/luben/zstd-jni

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Pretty handling of logarithmic axes.

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Created by Arne de Laat

Set axis.mode to "log" and make the axis logarithmic using transform:

axis: {

mode: 'log',

transform: function(v) {v <= 0 ? Math.log(v) / Math.LN10 : null},

inverseTransform: function(v) {Math.pow(10, v)}

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}

The transform filters negative and zero values, because those are
invalid on logarithmic scales.

This plugin tries to create good looking logarithmic ticks, using
unicode superscript characters. If all data to be plotted is between two
powers of ten then the default flot tick generator and renderer are
used. Logarithmic ticks are places at powers of ten and at half those
values if there are not to many ticks already (e.g. [1, 5, 10, 50, 100]).

For details, see https://github.com/flot/flot/pull/1328

This module was heavily inspired by the externals plugin that ships with webpack@97d58d31

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Author Tobias Koppers @sokra

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https://github.com/stipsan/compute-scroll-into-view/blob/master/src/index.ts#L269-L340

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Notice

This project contains several dependencies which have been vendored in

due to a need for minor changes. Where possible changes have been

contributed back to the original project.

async-listener

- **path:** lib/instrumentation/patch-async.js

- **author:** Forrest L Norvell

- **project url:** https://github.com/othiym23/async-listener

- **original file:** https://github.com/othiym23/async-listener/blob/master/index.js

- **license:** BSD-2-Clause, http://opensource.org/licenses/BSD-2-Clause

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## shimmer

- **path:** [lib/instrumentation/shimmer.js](lib/instrumentation/shimmer.js)

- **author:** Forrest L Norvell

- **project url:** https://github.com/othiym23/shimmer
```

- **original file:** https://github.com/othiym23/shimmer/blob/master/index.js

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## process-top

- **path:** [lib/metrics/platforms/generic/process-top.js](lib/metrics/platforms/generic/process-top.js)

- **author:** Mathias Buus

- **project url:** https://github.com/mafintosh/process-top

- **original file:** https://github.com/mafintosh/process-top/blob/master/index.js

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opentelemetry-js

- **path:** lib/instrumentation/run-context/

- **author:** OpenTelemetry Authors

- **project url:** https://github.com/open-telemetry/opentelemetry-js

- **original file:** https://github.com/open-telemetry/opentelemetry-js/tree/main/packages/opentelemetry-context-async-hooks/src

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Parts of "lib/instrumentation/run-context" have been adapted from or influenced

by TypeScript code in `@opentelemetry/context-async-hooks`.

- **path:** lib/opentelemetry-bridge/otelutils.js

- **author:** OpenTelemetry Authors

- **project url:** https://github.com/open-telemetry/opentelemetry-js

- **original file:** https://github.com/open-telemetry/opentelemetry-js/tree/main/packages/opentelemetry-core/src/common/time.ts

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"lib/opentelemetry-bridge/opentelemetry-core-mini/" includes files adapted from

code in `@opentelemetry/core`.

- **path:** lib/opentelemetry-bridge/opentelemetry-core-mini/

- **author:** OpenTelemetry Authors

- **project url:** https://github.com/open-telemetry/opentelemetry-js

- **original file:** https://github.com/open-telemetry/opentelemetry-js/tree/main/packages/opentelemetry-core/src/

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## load-source-map

- **path:** [lib/load-source-map.js](lib/load-source-map.js)

- **author:** Espen Hovlandsdal

- **project url:** https://github.com/rexxars/load-source-map

- **original file:** https://github.com/rexxars/load-source-map/blob/v2.0.0/lib/index.js

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esbuild

A small part of esbuild's runtime JS code is used in this project's

"lib/propwrap.js" module.

- **path:** lib/propwrap.js

- **author:** Evan Wallace

- **project url:** https://github.com/evanw/esbuild

- **original file:** https://github.com/evanw/esbuild/blob/v0.14.42/internal/runtime/runtime.go

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## @types/aws-lambda

A subset of `@types/aws-lambda` is vendored to support this project's TypeScript

types without required users to install the extra dependency.

- **path:** [types/aws-lambda.d.ts](types/aws-lambda.d.ts)

- **project url:** https://github.com/DefinitelyTyped/DefinitelyTyped

- **original file:** https://github.com/DefinitelyTyped/DefinitelyTyped/blob/master/types/aws-lambda/handler.d.ts

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require-in-the-middle

- **path:** lib/ritm.js

- **author:** Thomas Watson Steen

- **project url:** https://github.com/elastic/require-in-the-middle

- **original file:** https://github.com/elastic/require-in-the-middle/blob/v5.2.0/index.js

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This is a Java port of Daniel Lemire's fast_float project.

This project provides parsers for double, float, BigDecimal and BigInteger values.

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java

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compression format for Lucene's DataInput/DataOutput abstractions.

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The full snowball package is available from

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See http://members.unine.ch/jacques.savoy/clef/index.html.

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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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which can be obtained from

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

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It is currently developed by a community of developers.

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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analysis/common/src/resources/org/apache/lucene/analysis/snowball
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See http://members.unine.ch/jacques.savoy/clef/index.html.

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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,

and Edmond Nolan.

The Polish analyzer (stempel) comes with a default

stopword list that is BSD-licensed created by the Carrot2 project. The file resides

in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.

See https://github.com/carrot2/carrot2.

The SmartChineseAnalyzer source code (smartcn) was

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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java

implementation of the LZ4 (https://github.com/lz4/lz4/tree/dev/lib)

compression format for Lucene's DataInput/DataOutput abstractions.

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The class org.apache.lucene.util.WeakIdentityMap was derived from
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were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
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analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.
The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.

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See https://github.com/carrot2/carrot2.

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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Python was created in the early 1990s by Guido van Rossum at Stichting

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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

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releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-from compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes

1.3 thru 1.5.2 1.2 1995-1999 CNRI yes

1.6 1.5.2 2000 CNRI no

2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

2.0.1 2.0+1.6.1 2001 PSF yes

2.1.1 2.1+2.0.1 2001 PSF yes

2.2 2.1.1 2001 PSF yes

2.1.2 2.1.1 2002 PSF yes

2.1.3 2.1.2 2002 PSF yes

2.2.1 2.2 2002 PSF yes

2.2.2 2.2.1 2002 PSF yes

2.2.3 2.2.2 2003 PSF yes

2.3 2.2.2 2002-2003 PSF yes

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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

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2.5.1 2.5 2007 PSF yes

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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

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The initial code for shuffling an array (originally in class
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The textbook (containing a proof that the shuffle is uniformly random) is

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://www.zope.org/). In 2001, the Python Software Foundation (PSF, see https://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.

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Mersenne Twister

The :mod:`!_random` C extension underlying the :mod:`random` module

includes code based on a download from

http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are

the verbatim comments from the original code::

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Before using, initialize the state by using init_genrand(seed)

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Any feedback is very welcome.

http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and

:c:func:`!getnameinfo`, which are coded in separate source files from the WIDE

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C
version is still 5 times faster, though.
- Arguments more compliant with Python standard
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The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of
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Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion of C doubles to and from strings, is derived
from the file of the same name by David M. Gay, currently available
from https://web.archive.org/web/20220517033456/http://www.netlib.org/fp/dtoa.c.
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The modules :mod:`hashlib`, :mod:`posix`, :mod:`ssl`, :mod:`crypt` use
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The implementation of the hash table used by the :mod:`tracemalloc` is based
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W3C C14N test suite

The C14N 2.0 test suite in the :mod:`test` package
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Audioop

The audioop module uses the code base in g771.c file of the SoX project.

https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz

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(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt

It contains the certificates in PEM format and therefore

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Just configure this file as the SSLCACertificateFile.#

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@(#)subr_prf.c 8.3 (Berkeley) 1/21/94

[ccan/build_assert/build_assert.h]

[ccan/check_type/check_type.h]

[ccan/container_of/container_of.h]

[ccan/str/str.h]

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[include/ruby/onigmo.h]

[include/ruby/oniguruma.h]

[regcomp.c]

[regenc.c]

[regenc.h]

[regerror.c]

[regexec.c]

[regint.h]

[regparse.c]

[regparse.h]

[enc/ascii.c]

[enc/big5.c]

[enc/cp949.c]

[enc/emacs_mule.c]

[enc/encdb.c]

[enc/euc_jp.c]

[enc/euc_kr.c]

[enc/euc_tw.c]

[enc/gb18030.c]

[enc/gb2312.c]

[enc/gbk.c]

[enc/iso_8859_1.c]

[enc/iso_8859_10.c]

[enc/iso_8859_11.c]

[enc/iso_8859_13.c]

[enc/iso_8859_14.c]

[enc/iso_8859_15.c]

[enc/iso_8859_16.c]

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[enc/iso_8859_3.c]

[enc/iso_8859_4.c]

[enc/iso_8859_5.c]

[enc/iso_8859_6.c]

[enc/iso_8859_7.c]

[enc/iso_8859_8.c]

[enc/iso_8859_9.c]

[enc/koi8_r.c]

[enc/koi8_u.c]

[enc/shift_jis.c]

[enc/unicode.c]

[enc/us_ascii.c]

[enc/utf_16be.c]

[enc/utf_16le.c]

[enc/utf_32be.c]

[enc/utf_32le.c]

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[enc/windows_1254.c]

[enc/windows_1257.c]

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[enc/trans/GB/GB12345%UCS.src]

[enc/trans/GB/UCS%GB12345.src]

[enc/trans/GB/GB2312%UCS.src]

[enc/trans/GB/UCS%GB2312.src]

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[enc/trans/JIS/JISX0208\@1990%UCS.src]

[enc/trans/JIS/JISX0212%UCS.src]

[enc/trans/JIS/UCS%JISX0201-KANA.src]

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[enc/trans/ucm/glibc-BIG5HKSCS-2.3.3.ucm]

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[tool/lib/core_assertions.rb]

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,

Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)

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or init_by_array(init_key, key_length).

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[strftime.c]

[include/ruby/st.h]

[missing/acosh.c]

[missing/alloca.c]

[missing/erf.c]

[missing/hypot.c]

[missing/lgamma_r.c]

[missing/memcmp.c]

[missing/memmove.c]

[missing/strchr.c]

[missing/strerror.c]

[missing/strstr.c]

[missing/tgamma.c]

[ext/date/date_strftime.c]

[ext/digest/sha1/sha1.c]

[ext/digest/sha1/sha1.h]

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[ext/digest/sha2/sha2.h]
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[ext/nkf/nkf-utf8/nkf.c]

[ext/nkf/nkf-utf8/utf8tbl.c]

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By Sean Eron Anderson

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Chapter 5

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Version 1.0

Last updated: 28 June 2022

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Oracle Cloud Hosting and Delivery Policies

Effective Date: June 2022; Version 3.3

OVERVIEW

These Oracle Cloud Hosting and Delivery Policies (these "Delivery Policies") describe the Oracle Cloud

Services ordered by You. These Delivery Policies may reference other Oracle Cloud policy documents; any reference to "Customer" in these Delivery Policies or in such other policy documents shall be deemed to refer to "You" as defined in Your order.

References in these Delivery Policies to a Cloud Services' "data center region" refers to the geographic region listed in Your order for such Services or, if applicable, the geographic region that You have selected when activating the production instance of such Services. For purposes of the data center region applicable to Your ordered Cloud Services, the following applies:

- "Europe" refers to the member countries of the European Union, the United Kingdom, and Switzerland, collectively; and
- "APAC" refers to the Asia-Pacific geography, except China as Oracle has no data centers in China

With respect to Your ordered Oracle Cloud Services, Your Content will be stored in the data center region applicable to such services. Oracle may replicate Your Content to other locations within the applicable data center region in support of data durability. Capitalized terms that are not otherwise defined in these Delivery Policies shall have the meaning ascribed to them in the Oracle agreement, Your order or the policy, as applicable. The Oracle Cloud Hosting and Delivery Policies are generally updated on a biannual basis.

Your order or Oracle's Service Specifications (such as Oracle Cloud Service Pillar documentation or Service Descriptions) may include additional details or exceptions related to specific Oracle Cloud Services. The Oracle Cloud Service Pillar documentation, the Service Descriptions and the Program Documentation for Oracle Cloud Services are available at www.oracle.com/contracts.

Oracle Cloud Services are provided under the terms of the Oracle agreement, Your order, and Service Specifications applicable to such services. Oracle's delivery of the Oracle Cloud Services is conditioned on Your and Your users' compliance with Your obligations and responsibilities defined in such documents and incorporated policies. These Delivery Policies, and the documents referenced herein, are subject to change at Oracle's discretion; however, Oracle policy changes will not result in a material reduction in the level of performance, functionality, security, or availability of the Oracle Cloud Services provided during the Services Period of Your order.

Oracle Cloud Services are deployed at data centers or third-party infrastructure service providers retained by Oracle, with the exception of Oracle Cloud at Customer Services. Oracle Cloud at Customer Services are Public Cloud Services that are deployed at Your data center or at a third-party

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data center retained by You. You may purchase these services standalone or they may be deployed as the underlying platform for other Oracle Cloud Services. For Oracle Cloud at Customer Services, Oracle will deliver to Your data center certain hardware components, including gateway equipment, needed by Oracle to operate these services. You are responsible for providing adequate space, power, and cooling to deploy the Oracle hardware (including gateway equipment) and for ensuring adequate network connectivity for Oracle Cloud Operations to access the services. Oracle is solely responsible for maintenance of the Oracle hardware components (including gateway equipment).

These Delivery Policies do not apply to Oracle BigMachines Express, Oracle ETAWorkforce, or such other Oracle Cloud offerings as specified by Oracle in Your order or the applicable Service Description.

1. ORACLE CLOUD SECURITY POLICY

1.1 Oracle Information Security Practices - General

Oracle has adopted security controls and practices for Oracle Cloud Services that are designed to protect the confidentiality, integrity, and availability of Your Content that is hosted by Oracle in Your Oracle Cloud Services environment and to protect Your Content from any unauthorized processing activities such as loss or unlawful destruction of data. Oracle continually works to strengthen and improve those security controls and practices.

Oracle Cloud Services operates under practices which are aligned with the ISO/IEC 27002 Code of Practice for information security controls, from which a comprehensive set of controls are selected. Oracle Cloud Services are aligned with National Institute of Standards and Technology ("NIST") 800-53 and 800-171.

Oracle Cloud information security practices establish and govern areas of security applicable to Oracle Cloud Services and to Your use of those Oracle Cloud Services. Oracle personnel (including employees, contractors, and temporary employees) are subject to the Oracle information security practices and any additional policies that govern their employment or the services they provide to Oracle.

Oracle takes a holistic approach to information security, implementing a multilayered defense security strategy where network, operating system, database, and software security practices and procedures complement one another with strong internal controls, governance, and oversight.

For those Oracle Cloud Services which enable You to configure Your security posture, unless

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otherwise specified, You are responsible for configuring, operating, maintaining, and securing the operating systems and other associated software of these select Oracle Cloud Services (including Your Content) that is not provided by Oracle. You are responsible for maintaining appropriate security, protection, and backup of Your Content, which may include the use of encryption technology to protect Your Content from unauthorized access and the routine archiving of Your Content.

1.2 Physical Security Safeguards

Oracle employs measures designed to prevent unauthorized persons from gaining access to computing facilities in which Your Content is hosted such as the use of security personnel, secured buildings, and designated data center premises. Oracle provides secured computing facilities for both office locations and production cloud infrastructure. Common controls between office locations and Oracle controlled co-locations/data centers currently include, for example:

- Physical access requires authorization and is monitored
- All employees and visitors must visibly wear official identification while onsite
- Visitors must sign a visitor's register and be escorted and/or observed while onsite
- Possession of keys/access cards and the ability to access the locations is monitored. Staff leaving Oracle employment must return keys/cards

Additional physical security safeguards are in place for Oracle-controlled Cloud data centers, which currently include safeguards such as:

- Premises are monitored by CCTV
- Entrances are protected by physical barriers designed to prevent unauthorized entry by vehicles
- Entrances are manned 24 hours a day, 365 days a year by security guards who perform visual identity recognition and visitor escort management
- Safeguards related to environmental hazards
- Any physical movement of equipment is controlled by hand-delivered receipts and other authorized change control procedures
- Network cables are protected by conduits and, where possible, avoid routes through public areas

This section does not apply to Oracle Cloud at Customer Services. You must provide Your own secure computing facilities for the hosting and operation of the Oracle Cloud at Customer Services-related hardware (including the gateway equipment) and network connections required for Oracle to provide the Oracle Cloud at Customer Services.

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1.3 System Access Controls

Oracle may, depending upon the particular Cloud Services ordered, apply among others the following controls: authentication via passwords and/or multi-factor authentication, documented authorization and change management processes, and logging of access. All remote access to the Oracle Cloud Network by Oracle personnel that have access to Your Content is restricted through the use of a Virtual Private Network which utilizes multi-factor authentication. In addition to the required use of a Virtual Private Network, before Oracle personnel are granted access to the Oracle Cloud Network, Oracle performs device posture checks and has in place controls, such as bastion hosts. Oracle prohibits (through both policy and technical controls) the use of personal devices to access the Oracle Cloud Network and the Services environment for the Cloud Services.

For Cloud Services hosted at Oracle: (i) log-ins to Cloud Services environments are logged and (ii) logical access to the data centers is restricted and protected.

1.4 Data Access Controls

For service components managed by Oracle, Oracle's access to Your Content is restricted to authorized staff.

With respect to Oracle personnel accessing the Services environment for the Cloud Services (including Your Content residing in the Cloud Services), Oracle enforces Role Based Access Controls (RBAC) and employs the access management principles of "need to know", "least privilege" and "segregation of duties." In addition, Oracle provides a mechanism by which You control Your access to Your Cloud Services environment and to Your Content by Your authorized staff.

1.5 User Encryption for External Connections

Your access to Oracle Cloud Services is through a secure communication protocol provided by Oracle. If access is through a Transport Layer Security (TLS) enabled connection, that connection is negotiated for at least 128 bit encryption. The private key used to generate the cipher key is at least 2048 bits. TLS is implemented or configurable for all web-based TLS-certified applications deployed at Oracle. It is recommended that the latest available browsers certified for Oracle programs, which are compatible with higher cipher strengths and have improved security, be utilized for connecting to web enabled programs. The list of certified browsers for each version of Oracle Cloud Services will be made available via a portal accessible to You or in the corresponding Service Description for the Oracle Cloud Services. In some cases, a third party site that You wish to integrate with the Oracle Cloud Services, such as a

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social media service, may not accept an encrypted connection. For Oracle Cloud Services where HTTP connections with the third party site are permitted by Oracle, Oracle will enable such HTTP connections in addition to the HTTPS connection.

1.6 Input Control

The source of Your Content is under Your control and Your responsibility, and integrating Your Content into the Cloud Services environment, is managed by You.

1.7 Data and Network Segregation

Your Content is logically or physically segregated from the content of other customers hosted in the Oracle Cloud Services environments. All Oracle Public Cloud networks are segregated from Oracle's Corporate networks.

1.8 Confidentiality and Training

Oracle personnel that may have access to Your Content are subject to confidentiality agreements. All Oracle personnel that have access to Your Content are required to complete information-protection awareness training upon hiring. Thereafter, all Oracle personnel that have access to Your Content must complete training in accordance with applicable Oracle security and privacy awareness training documentation.

1.9 Asset Management

Oracle is responsible for the protection and inventory of Oracle's Cloud Services assets. The responsibilities may include reviewing and authorizing access requests to those who have a business need and maintaining an inventory of assets.

You are responsible for the assets You control that utilize or integrate with the Oracle Cloud services, including: determining the appropriate information classification for Your Content, and whether the documented controls provided by Oracle Cloud Services are appropriate for Your Content. You must have or obtain any required consents or other legal basis related to the collection and use of information provided by data subjects, including any such consents or other legal basis necessary for Oracle to provide the Cloud Services.

1.10 Oracle Internal Information Security Policies

Oracle Cloud information security policies establish and govern areas of security applicable to Oracle Cloud Services and to Your use of Oracle Cloud Services. Oracle personnel are subject to the Oracle

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Corporate Information Security Policies and any additional policies that govern their employment or the services they provide to Oracle. Oracle's Information Security Program ("ISP") is comprised of documented policies that consider risk factors including cyber and security factors, with accompanying derivative procedures, standards and guidelines required for the effective operationalization of policy. Oracle's ISP is designed to ensure the confidentiality, integrity, privacy, continuity and availability of Your Content that is hosted by Oracle in Your Oracle Cloud Services through effective security management practices and controls. Oracle's ISP is reviewed annually by the Oracle Security Oversight Committee and updated as required.

1.11 Internal Security Reviews and Enforcement

Oracle employs internal processes for regularly testing, assessing, evaluating and maintaining the effectiveness of the technical and organizational security measures described in this section.

1.12 External Reviews

Oracle may conduct independent reviews of Cloud Services utilizing third parties in the following areas (the scope of any such reviews may vary by service and country):

- SOC 1 (based on Statement on Standards for Attestation Engagements (SSAE) No 18) and/or SOC 2 reports
- Other independent third-party security testing to review the effectiveness of administrative and technical controls

Relevant information from these reviews may be made available to customers.

1.13 Oracle Software Security Assurance

Oracle Software Security Assurance (OSSA) is Oracle's methodology for building security into the design, build, testing, and maintenance of its products and services, including the Oracle Cloud Services. The OSSA program is described at https://www.oracle.com/corporate/security-practices/assurance/.

1.14 Security Logs

Logs are generated for security-relevant activities on operating systems. Systems are configured to log default security activities, access to information or programs, system events such as alerts, console messages, and system errors. Oracle reviews logs for forensic purposes and incidents; identified anomalous activities feed into the incident management process. Security logs are stored within the Security Information and Event Management system (or equivalent system) in a native,

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unaltered format and retained in accordance with Oracle's internal policies. Such logs are retained online for a minimum of 1 year, or as otherwise required by an applicable regulatory framework. These logs are retained and used by Oracle for our internal security operations for Cloud Services.

1.15 Other Customer Security Related Obligations

You are responsible for:

- Implementing Your own comprehensive system of security and operational policies standards and procedures, according to Your risk-based assessments and business requirements
- Ensuring that end-user devices meet web browser requirements and minimum network bandwidth requirements for access to the Oracle Cloud Services
- Managing client device security controls, so that antivirus and malware checks are performed on data or files before importing or uploading data into the Oracle Cloud Services
- Maintaining Customer-managed accounts according to Your policies and security best practices
- Additionally, for Oracle Cloud at Customer Services, You are responsible for the following:
    - Adequate physical and network security
    - Security monitoring to reduce the risk of real time threats and prevent unauthorized access to Your Oracle Cloud Services from Your networks; this includes intrusion detection systems, access controls, firewalls and any other network monitoring, and any management tools managed by You.

2. ORACLE CLOUD SERVICE CONTINUITY POLICY

2.1 Oracle Cloud Services High Availability Strategy

Oracle deploys the Oracle Cloud Services on resilient computing infrastructure designed to maintain service availability and continuity in the case of an incident affecting the services. Data centers retained by Oracle to host Oracle Cloud Services have component and power redundancy with backup generators in place, and Oracle may incorporate redundancy in one or more layers, including network infrastructure, program servers, database servers, and/or storage.

2.2 Oracle Cloud Services Backup Strategy

Oracle periodically makes backups of Your Content in your production environment of the Oracle Cloud Services for Oracle's sole use to minimize data loss in the event of an incident. Backups are stored at the primary site used to provide the Oracle Cloud Services, and may also be stored at an alternate location for retention purposes. A production backup is typically retained online or offline for a period of at least 60 days after the date that the backup is made. Oracle typically does not update, insert, delete or restore Your data on Your behalf. However, on an exception basis and subject

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to written approval, Oracle may assist You to restore data which You may have lost as a result of Your own actions.

For Oracle Cloud Services which enable You to configure backups in accordance with Your own policies, You are responsible for performing backups and restores of Your data, non-Oracle software, and any Oracle software that is not provided by Oracle as part of these services. Additionally, You are encouraged to develop a business continuity plan to ensure continuity of Your own operations in the event of a disaster.

3. ORACLE CLOUD SERVICE LEVEL AGREEMENT

3.1 Hours of Operation

The Oracle Cloud Services are designed to be available 24 hours a day, 7 days a week, 365 days a year, except during maintenance periods, technology upgrades and as otherwise set forth in the Oracle agreement, Your order and this Oracle Cloud Service Level Agreement.

3.2 Service Availability

Commencing at Oracle's activation of Your production Oracle Cloud Service, Oracle works to meet the Target Service Availability Level, or Target Service Uptime of 99.9%. This is in accordance with the terms set forth in the Cloud Service Pillar documentation for the applicable Oracle Cloud Service (or such other Target Service Availability Level or Target Service Uptime specified by Oracle for the applicable Oracle Cloud Service in such documentation).

The foregoing is contingent on Your adherence to Oracle's recommended minimum technical configuration requirements for accessing and using the Oracle Cloud Services from Your network infrastructure and Your user work stations as set forth in the Program Documentation for the applicable Oracle Cloud Services.

3.2.1 Measurement of Availability

Following the end of each calendar month of the applicable Services Period, Oracle measures the Service Availability Level or Service Uptime over the immediately preceding month by dividing the difference between the total number of minutes in the monthly measurement period and any Unplanned Downtime (as defined below) by the total number of minutes in the measurement period, and multiplying the result by 100 to reach a percent figure.

3.2.2 Reporting of Availability

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Oracle will provide You with access to a Customer notifications portal. This portal will provide metrics on the Service Availability Level for Oracle Cloud Services that You purchased under Your order. For those Oracle Cloud Services for which such metrics are not available via the Customer notifications portal, Oracle will provide metrics on the Service Availability Level upon receipt of a Service Request submitted by You to Oracle requesting the metrics.

3.2.3 Service Credits

You may receive Service Credits in the event that the Target Service Availability Level or Target Service Uptime for Oracle Cloud Services that You purchased under Your order is below the defined Target Service Availability Level or Target Service Uptime applicable to such Services. Service Credits are defined in the Cloud Service Pillar documentation or Service Description applicable to Your purchased Oracle Cloud Services. Notwithstanding the provisions of this section, if Your order with Oracle or Service Specifications applicable to your order for a particular Oracle Cloud Service provides a right to receive a higher amount of Service Credits, then You may receive the Service Credits under the provision which provides for the highest amount of Service Credits to You, but You may not recover Service Credits under multiple provisions for the same event.

3.3 Definition of Unplanned Downtime

Oracle Cloud Services are deployed in resilient computing facilities with resilient infrastructure, redundant network connections, and power at each hosting facility.

"Unplanned Downtime" means any time during which a problem with the Oracle Cloud Services prevents Your connectivity. Unplanned Downtime does not include any time during which the Oracle Cloud Services or any Oracle Cloud Services component are not available due to: (i) scheduled maintenance, (ii) circumstances outside of Oracle's control and other force majeure events (e.g., outages initiated at Your request, outages caused by non-Oracle infrastructure such as electrical, network, telecommunication, or other connectivity equipment, security attacks, natural disasters, or political events), (iii) any actions or inactions of You, Your Users or any third party (other than any Oracle agents and contractors who Oracle has engaged to perform the applicable Oracle Cloud Services) or (iv) any suspension by Oracle permitted under Your Oracle agreement or Your order. In addition, with respect to Oracle Cloud at Customer Services, Unplanned Downtime also does not include downtime or other unavailability (i) of Your data center (e.g., due to maintenance) or (ii)

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occurring outside the on-site hours defined under Your order for Oracle Cloud Operations personnel at Your data center.

3.4 Monitoring

Oracle uses a variety of software tools to monitor the availability and performance of the Oracle Cloud Services and the operation of infrastructure and network components. Oracle does not monitor, or address deviations experienced by any non-Oracle managed components used by You in the Oracle Cloud Services, such as non-Oracle applications.

3.4.1 Monitored Components

Oracle monitors the hardware that supports the Oracle Cloud Services, and currently generates alerts for monitored network components, such as CPU, memory, storage, database and other components. Oracle Cloud Operations staff monitors alerts associated with deviations to Oracle defined thresholds, and follows standard operating procedures to investigate and resolve underlying issues.

3.4.2 Customer Monitoring & Testing Tools

Oracle permits You to conduct limited functional testing for Oracle Cloud Services in Your test environment. Specific rules for testing may be found in the Program Documentation.

Oracle regularly performs penetration and vulnerability testing and security assessments against Oracle Cloud infrastructure, platforms, and applications in order to validate and improve the overall security of Oracle Cloud Services. The Oracle Cloud Services Program Documentation outlines when and how You may assess or test any components that You manage or create in Oracle Cloud Services, including non-Oracle applications, non-Oracle databases, other applicable non-Oracle software, code, or the use of data scraping tools.

Oracle reserves the right to remove or disable access to any tools or technologies that violate the guidelines in this section or the applicable Oracle Cloud Services Program Documentation, without any liability to You.

4. ORACLE CLOUD CHANGE MANAGEMENT POLICY

4.1 Oracle Cloud Change Management and Maintenance

Oracle Cloud Operations performs changes to cloud hardware infrastructure, operating software, product software, and supporting application software that is provided by Oracle as part of the Oracle Cloud Services, to maintain operational stability, availability, security, performance, and currency of

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the Oracle Cloud Services. Oracle follows formal change management procedures to review, test, and approve changes prior to application in the production service.

Changes made through change management procedures include system and service maintenance activities, upgrades and updates, and customer specific changes. Oracle Cloud Services change management procedures are designed to minimize service interruption during the implementation of changes.

Oracle reserves specific maintenance periods for changes that may require the Oracle Cloud Services to be unavailable during the maintenance period. Oracle works to ensure that change management procedures are conducted during scheduled maintenance windows, while taking into consideration low traffic periods and geographical requirements.

Oracle will provide prior notice of modifications to the standard maintenance period schedule. For Customer-specific changes and upgrades, where feasible, Oracle will coordinate the maintenance periods with You.

For changes that are expected to cause service interruption, the durations of the maintenance periods for planned maintenance are not included in the calculation of Unplanned Downtime minutes in the monthly measurement period for Service Availability Level (see the Oracle Cloud Service Level Agreement above). Oracle uses commercially reasonable efforts to minimize the use of these reserved maintenance periods and to minimize the duration of maintenance events that cause service interruptions.

For Oracle Cloud Services which enable You to perform maintenance activities, You are responsible for configuring and maintaining the operating systems and other associated software.

4.1.1 Emergency Maintenance

Oracle may be required to execute emergency maintenance in order to protect the security, performance, availability, or stability of the Oracle Cloud Services. Emergency maintenance is required to address an exigent situation (e.g., a hardware failure of the infrastructure underlying such Service) with the Service or Oracle infrastructure that cannot be addressed except on an emergency basis. Oracle works to minimize the use of emergency maintenance, and to the extent reasonable under the circumstances as determined by Oracle, will work to provide 24 hours prior notice for any emergency maintenance requiring a service interruption.

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4.1.2 Major Maintenance Changes

To help ensure continuous stability, availability, security and performance of the Oracle Cloud Services, Oracle reserves the right to perform major changes to its hardware infrastructure, operating software, applications software and supporting application software under its control, typically no more than twice per calendar year. Each such major change event is considered scheduled maintenance and may cause the Oracle Cloud Services to be unavailable. Each such event is targeted to occur at the same time as the scheduled maintenance period. Oracle will work to provide no less than 60 days prior notice of a major change event.

4.1.3 Data Center Migrations

Oracle may migrate Your Oracle Cloud Services deployed in data centers retained by Oracle between production data centers in the same data center region as deemed necessary by Oracle or in the case of disaster recovery. For data center migrations for purposes other than disaster recovery, Oracle will provide a minimum of 30 days notice to You.

4.2 Software Versioning

4.2.1 Software Updates

Oracle requires all Oracle Cloud Services customers to keep the software versions of the Oracle Cloud Services current with the software versions that Oracle designates as Generally Available (GA) for such Oracle Cloud Services. Software updates will follow the release of every GA release and are required for the Oracle Cloud Services in order to maintain version currency. Oracle's obligations under these Delivery Policies (including the Oracle Cloud Service Continuity Policy, the Oracle Cloud Service Level Agreement, and the Oracle Cloud Support Policy) are dependent on You maintaining GA version currency. Oracle is not responsible for performance, functionality, availability or security issues experienced with Oracle Cloud Services that may result from running earlier versions.

4.2.2 End of Life

Oracle will host and support only the GA version of an Oracle Cloud Service. All other versions of the Oracle Cloud Service are considered as "End of Life" (EOL). You are required to complete the Oracle Cloud Services update to the latest version before the EOL of a given version. You acknowledge that failure to complete the update prior to the EOL of an Oracle Cloud Service version may result in an update automatically performed by Oracle or a suspension of the Oracle Cloud Services. In certain

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circumstances where an Oracle Cloud Service version reaches EOL and Oracle does not make available an updated version, Oracle may designate, and require You to transition to, a successor Oracle Cloud Service.

5. ORACLE CLOUD SUPPORT POLICY

The support described in this Oracle Cloud Support Policy applies only for Oracle Cloud Services, and is provided by Oracle as part of such Oracle Cloud Services under Your order. Oracle may make available, and You may order for additional fees, additional support service offerings made available by Oracle for the Oracle Cloud Services.

5.1 Oracle Cloud Support Terms

5.1.1 Support Fees

The fees paid by You for the Oracle Cloud Services under Your order include the support described in this Oracle Cloud Support Policy. Additional fees are applicable for additional Oracle support services offerings purchased by You.

5.1.2 Support Period

Oracle Cloud support becomes available upon the service start date and ends upon the expiration or termination of the Services (the "support period"). Oracle is not obligated to provide the support described in this Oracle Cloud Support Policy beyond the end of the support period.

5.1.3 Technical Contacts

Your technical contacts are the sole liaisons between You and Oracle for Oracle support for Oracle Cloud Services. Those technical contacts must have, at a minimum, initial basic service training and, as needed, supplemental training appropriate for specific role or implementation phase, specialized service/product usage, and migration. Your technical contacts must be knowledgeable about the Oracle Cloud Services in order to help resolve system issues and to assist Oracle in analyzing and resolving service requests. When submitting a service request, Your technical contact should have a baseline understanding of the problem being encountered and an ability to reproduce the problem in order to assist Oracle in diagnosing and triaging the problem. To avoid interruptions in Oracle support for Oracle Cloud Services, You must notify Oracle whenever technical contact responsibilities are transferred to another individual.

5.1.4 Oracle Cloud Support

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Oracle support for Oracle Cloud Services consists of:

- Diagnoses of problems or issues with the Oracle Cloud Services
- Reasonable commercial efforts to resolve reported and verifiable errors in the Oracle Cloud Services so that those Oracle Cloud Services perform in all material respects as described in the associated Program Documentation
- Support during Change Management activities described in the Oracle Cloud Change Management Policy
- Assistance with technical service requests 24 hours per day, 7 days a week
- 24 x 7 access to a Cloud Customer Support Portal designated by Oracle (e.g., My Oracle Support) and Live Telephone Support to log service requests
- Access to community forums
- Non-technical Customer service assistance during normal Oracle business hours (8:00 to 17:00) local time

5.2 Oracle Cloud Customer Support Systems

5.2.1 Oracle Cloud Customer Support Portal

Oracle provides support for the Oracle Cloud Service acquired by You through the Cloud Customer Support Portal designated for that Oracle Cloud Service. Access to the applicable Cloud Customer Support Portal is governed by the Terms of Use posted on the designated support web site, which are subject to change. Access to the Cloud Customer Support Portal is limited to Your designated technical contacts and other authorized users of the Oracle Cloud Services. Where applicable, the Cloud Customer Support Portal provides support details to Your designated technical contacts to enable use of Oracle support for Oracle Cloud Services. All service notifications and alerts relevant to Your Oracle Cloud Service are posted on this portal.

5.2.2 Live Telephone Support

Your technical contacts may access live telephone support via the phone numbers and contact information found on Oracle's support web site at https://www.oracle.com/support/contact.html.

5.3 Severity Definitions

Service requests for Oracle Cloud Services may be submitted by Your designated technical contacts via the Cloud Customer Support Portal noted above. The severity level of a service request submitted by You is selected by both You and Oracle, and must be based on the following severity definitions:

5.3.1 Severity 1

Your production use of the Oracle Cloud Services is stopped or so severely impacted that You cannot

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reasonably continue work. You experience a complete loss of service. The impacted operation is mission critical to the business and the situation is an emergency. A Severity 1 service request has one or more of the following characteristics:

- Data corrupted
- A critical documented function is not available
- Service hangs indefinitely, causing unacceptable or indefinite delays for resources or response
- Service crashes, and crashes repeatedly after restart attempts
- Security Incident with the potential to impact the confidentiality, integrity or availability of the service

Oracle will use reasonable efforts to respond to Severity 1 service requests within fifteen (15) minutes. Oracle will work 24x7 until the Severity 1 service request is resolved, a reasonable work-around is put in place, or as long as useful progress can be made. You must provide Oracle with a technical contact during this 24x7 period to assist with data gathering, testing, and applying fixes. You are required to propose this severity classification with great care, so that valid Severity 1 situations obtain the necessary resource allocation from Oracle.

5.3.2 Severity 2

You experience a severe loss of service. Important features of the Oracle Cloud Services are unavailable with no acceptable workaround; however, operations can continue in a restricted fashion.

5.3.3 Severity 3

You experience a minor loss of service. The impact is an inconvenience, which may require a workaround to restore functionality.

5.3.4 Severity 4

You request information, enhancement, or documentation clarification regarding the Oracle Cloud Services, but there is no impact on the operation of such service. You experience no loss of service.

5.4 Change to Service Request Severity Level

5.4.1 Initial Severity Level

At the time Oracle accepts a service request, Oracle will record an initial severity level of the service request based on the above severity definitions. Oracle's initial focus, upon acceptance of a service request, will be to resolve the issues underlying the service request. The severity level of a service request may be adjusted as described below.

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5.4.2 Downgrade of Service Request Levels

If, during the service request process, the issue no longer warrants the severity level currently assigned based on its current impact on the production operation of the applicable Oracle Cloud Service, then the severity level will be downgraded to the severity level that most appropriately reflects its current impact.

5.4.3 Upgrade of Service Request Levels

If, during the service request process, the issue warrants the assignment of a higher severity level than that currently assigned based on the current impact on the production operation of the applicable Oracle Cloud Service, then the severity level will be upgraded to the severity level that most appropriately reflects its current impact.

5.4.4 Adherence to Severity Level Definitions

You shall ensure that the assignment and adjustment of any severity level designation is accurate based on the current impact on the production operation of the applicable Oracle Cloud Service. You acknowledge that Oracle is not responsible for any failure to meet performance standards caused by Your misuse or mis-assignment of severity level designations.

5.5 Service Request Escalation

For service requests that are escalated, the Oracle support analyst will engage the Oracle service request escalation manager who will be responsible for managing the escalation. The Oracle service request escalation manager will work with You to develop an action plan and allocate the appropriate Oracle resources. If the issue underlying the service request continues to remain unresolved, You may contact the Oracle service request escalation manager to review the service request and request that it be escalated to the next level within Oracle as required. To facilitate the resolution of an escalated service request, You are required to provide contacts within Your organization that are at the same level as that within Oracle to which the service request has been escalated.

6. ORACLE CLOUD SUSPENSION AND TERMINATION POLICY

6.1 Termination of Oracle Cloud Services

For a period of 60 days upon termination of the Oracle Cloud Services, Oracle will make available, via secure protocols and in a structured, machine-readable format, Your Content residing in the production Cloud Services environment, or keep the service system accessible, for the purpose of

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data retrieval by You.

For free trials of Cloud Services, Oracle will make Your Content available for a period of 30 days following termination of the trial. During this retrieval period, Oracle's Cloud Service Level Agreement does not apply and the service system may not be used for any production activities. Oracle has no obligation to retain Your Content after this retrieval period.

If You need assistance from Oracle to obtain access to or copies of Your Content, You must create a service request in the Cloud Customer Support Portal applicable to the service (e.g., My Oracle Support).

Data retrieval and any related assistance by Oracle is not applicable for Oracle Cloud Services that do not store Your Content. You are responsible for ensuring that if those Oracle Cloud Services are dependent on separate Oracle Cloud Services (such as Storage Cloud Service or Database Cloud Services) for the storage of data, those separate Oracle Cloud Services must have a valid duration through the end of the terminating Oracle Cloud Service to enable data retrieval, or for otherwise taking appropriate action to back up or otherwise store separately Your Content while the Production Cloud Services environment is still active prior to termination.

Following expiry of the retrieval period, Oracle will delete Your Content from the Oracle Cloud Services environments (unless otherwise required by applicable law).

For Oracle Cloud at Customer Services, You must make available for retrieval by Oracle any Oracle Cloud at Customer Service-related hardware components (including the gateway equipment) provided by Oracle in good working order and the same condition as at the start of the Oracle Cloud at Customer Services subject to reasonable wear and tear for appropriate use.

6.2 Termination of Pilot Environments

This Oracle Cloud Suspension and Termination Policy applies to production pilots of Oracle Cloud Services. Production pilots are not available for all Oracle Cloud Services.

7 USE OF SERVICES

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Effective date: Wednesday, 11 April, 2018

North America

Travel Midwest Gateway Traveler Information System

https://www.travelmidwest.com/lmiga/policies.jsp

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Oracle Tuxedo Optimizations for Exalogic Elastic Cloud Software

The following sections describe the following Oracle Tuxedo optimizations for Oracle Exalogic Elastic Cloud Software:

- Oracle Tuxedo Optimization for Inter-node Communication

  Oracle Exalogic Elastic Cloud Software can be configured with Oracle Tuxedo to provide inter-node communication within an Oracle Tuxedo domain.

- Socket Direct Protocol for Exalogic Elastic Cloud Software

  Oracle Exalogic Elastic Cloud can be configured to utilize the socket direct protocol for Oracle Tuxedo network channels and Oracle Database connectivity.

- Oracle Tuxedo Optimization for Lock Mechanism

  Oracle Exalogic Elastic Cloud Software can be configured with Oracle Tuxedo to tune the bulletin board lock mechanism in an Oracle Tuxedo domain.

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Chapter 6

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Third party components on Oracle JDK

* Module java.base

o Cryptix AES v3.2.0

o ASM Bytecode Manipulation Framework v9.3

o c-libutl 20160225

o Unicode Common Local Data Repository (CLDR) v43.0

o International Components for Unicode (ICU4J) v72.1

o Mozilla Public Suffix List

o The Unicode Standard, Unicode Character Database, Version 15.0.0

o Bert Belder: wepoll v 1.5.8 (Windows only)

o zlib v1.2.13 (Windows only) for JDK 21 to 21.0.3

o zlib v1.3.1 (Windows only) for JDK 21.0.4 and later

o SipHash v1.0-68c8a7c

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* Module java.desktop

o Eastman Kodak Company: Portions of color management and imaging software

o The FreeType Project: Freetype v2.13.0 (macOS and Windows only) for JDK 21 to 21.0.2

o The FreeType Project: Freetype v2.13.2 (macOS and Windows only) for JDK 21.0.3 and later

o GIFLIB v5.2.1 for JDK 21 to 21.0.4

o GIFLIB v5.2.2 for JDK 21.0.5 and later

o Harfbuzz v7.2 for JDK 21 to 21.0.1

o Harfbuzz v8.2.2 for JDK 21.0.2 and later

o Independent JPEG Group: JPEG release 6b

o Little Color Management System (LCMS) v2.15 for JDK 21 to 21.0.3

o Little Color Management System (LCMS) v2.16 for JDK 21.0.4 and later

o libpng v1.6.39 for JDK 21 to 21.0.1

o libpng v1.6.40 for JDK 21.0.2 to 21.0.4

o libpng v1.6.43 for JDK 21.0.5 and later

o Mesa 3-D Graphics Library v21.0.3

o PipeWire 0.3.68 (Linux and macOS only)

o xwd v1.0.7 (Linux only)

* Module java.smartcardio

o PC/SC Lite v1.9.9 (Linux and macOS only)

* Module java.xml.crypto

o Apache Santuario v3.0.2 for JDK 21 to 21.0.2

o Apache Santuario v3.0.3 for JDK 21.0.3 and later

* Module java.xml

o Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0

o DOM Level 3 Core Specification v1.0

o CUP Parser Generator for Java v 0.11b

o Apache Xalan v2.7.2 for JDK 21 to 21.0.2

o Apache Xalan v2.7.3 for JDK 21.0.3 and later

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o Apache Xerces v2.12.2

* Module jdk.crypto.cryptoki

o OASIS PKCS #11 Cryptographic Token Interface v3.0

o IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

* Module jdk.dynalink

o Dynalink v.5

* Module jdk.internal.le

o JLine v3.22.0

* Module jdk.internal.opt

o jopt-simple v5.0.4

* Module jdk.javadoc

o DejaVu fonts v2.37

o jQuery v3.6.1 for JDK 21 to 21.0.4

o jQuery v3.7.1 for JDK 21.0.5 and later

o jQuery UI v1.13.2

* Module jdk.localedata

o Unicode Common Local Data Repository (CLDR) v43.0

o Thai Dictionary

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Bert Belder: wepoll v 1.5.8

wepoll - epoll for Windows https://github.com/piscisaureus/wepoll

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GL/wglext.h Khronos KHR/khrplatform.h Khronos

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zlib v1.2.13

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