Azul Zing 17
Licensing Information
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Table of Contents

Introduction . . . 1
GNU General Public License version 2 (GPLv2) . . . 2
Azul Zing Builds of OpenJDK . . . 10
OpenJDK 17 . . . 65
- Module com.azul.crs.client . . . 65
  - ASM Bytecode Manipulation Framework v9.6 . . . 65
- Module com.azul.warp.sidecar . . . 65
  - AWS C Auth v0.9.4 . . . 65
  - AWS C Cal v0.9.13 . . . 70
  - AWS C Common v0.12.6 . . . 73
  - AWS C Compression v0.3.1 . . . 79
  - AWS C Event Stream v0.5.9 . . . 83
  - AWS C Http v0.10.7 . . . 88
  - AWS C Io v0.24.0 . . . 92
  - AWS C Mqtt v0.13.3 . . . 96
  - AWS C S3 v0.11.3 . . . 101
  - AWS C SDKUTILS v0.2.4 . . . 104
  - AWS Crt Cpp v0.36.1 . . . 108
  - AWS Lib Crypto v1.65.1 . . . 112
  - AWS SDK for C++ 1.11.735 . . . 122
  - Warp 2.9.0 . . . 130
  - aws-checksums v0.2.8 . . . 131
  - libgcrypt v1.6.6 . . . 135
  - libgpg-error v1.11 . . . 159
  - lz4 v1.9.4 . . . 179
  - s2n v1.6.2 . . . 188
- Module java.base . . . 192
  - ASM Bytecode Manipulation Framework v8.0.1 . . . 192
  - Bert Belder: wepoll v 1.5.8 . . . 193
  - Bouncy Castle ASN1 Utils FIPS library v2.1.5 . . . 193
  - Bouncy Castle FIPS provider v2.1.2 . . . 194
  - Bouncy Castle PKIX FIPS library v2.1.10 . . . 195
  - Bouncy Castle TLS/JSSE FIPS provider v2.1.22 . . . 195
  - Bouncy Castle provider for JDK 1.8 and up v1.80 . . . 196
  - CRIU (Checkpoint/Restore In Userspace) v3.17.1 . . . 196
  - Cryptix AES v3.2.0 . . . 214
  - GCC - libgcc and libstdc++ 14.2.0 . . . 214
  - International Components for Unicode (ICU4J) v67.1 . . . 255

Mozilla Public Suffix List . . . 259
SipHash v1.0-68c8a7c . . . 267
The Unicode Standard, Unicode Character Database, Version 13.0.0 . . . 270
Unicode Common Local Data Repository (CLDR) v39 . . . 271
Warp 2.9.0 . . . 274
c-libutl 20160225 . . . 275
libnet v1.1.6 . . . 276
libnl v3.2.25 . . . 277
libnl v3.5.0 . . . 287
lz4 v1.9.4 . . . 297
protobuf v3.15.8 . . . 306
protobuf-c v1.4.1 . . . 306
zlib v1.3.2 . . . 307
Module java.desktop . . . 308
Eastman Kodak Company: Portions of color management and imaging software . . . 308
GIFLIB v6.1.2 . . . 308
Harfbuzz 12.3.2 . . . 309
Independent JPEG Group: JPEG release 6b . . . 311
Little Color Management System (LCMS) v2.17 . . . 313
Mesa 3-D Graphics Library v21.0.3 . . . 315
PipeWire 1.3.81 . . . 317
The FreeType Project: Freetype v2.14.2 . . . 318
libpng v1.6.57 . . . 331
xwd v1.0.7 . . . 336
Module java.smartcardio . . . 336
PC/SC Lite v1.9.9 . . . 336
Module java.xml . . . 338
Apache Commons Byte Code Engineering Library (BCEL) Version 6.10.0 . . . 338
Apache Xalan v2.7.2 . . . 342
Apache Xerces v2.12.2 . . . 347
CUP Parser Generator for Java v 0.11b . . . 352
DOM Level 3 Core Specification v1.0 . . . 352
Module java.xml.crypto . . . 354
Apache Santuario v3.0.5 . . . 354
Module jdk.crypto.cryptoki . . . 358
IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1 . . . 358
OASIS PKCS #11 Cryptographic Token Interface v3.1 . . . 359
Module jdk.dynalink . . . 361
Dynalink v.5 . . . 361
Module jdk.hsdis . . . 362

Capstone disassembly framework v4.0.2 . . . 362
HotSpot plugin for disassembling dynamically generated code (HSDIS) . . . 365
Module jdk.internal.le . . . 366
JLine v3.26.1 . . . 366
Module jdk.internal.opt . . . 367
jopt-simple v5.0.4 . . . 367
Module jdk.javadoc . . . 367
jQuery UI v1.14.1 . . . 367
jQuery v3.7.1 . . . 368
Module jdk.localedata . . . 369
Thai Dictionary . . . 369
Unicode Common Local Data Repository (CLDR) v39 . . . 370
Legal Notices . . . 374

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Google Test         llvm/utils/unittest/googletest
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OpenBSD regex       llvm/lib/Support/{reg*, COPYRIGHT.regex}
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 * This differs from Colin Plumb's older public domain implementation in that
 * no exactly 32-bit integer data type is required (any 32-bit or wider
 * unsigned integer data type will do), there's no compile-time endianness
 * configuration, and the function prototypes match OpenSSL's.  No code from
 * Colin Plumb's implementation has been reused; this comment merely compares
 * the properties of the two independent implementations.
 *
 * The primary goals of this implementation are portability and ease of use.
 * It is meant to be fast, but not as fast as possible.  Some known
 * optimizations are not included to reduce source code size and avoid
 * compile-time configuration.
 */

-----------------------------

/*
 * This code is derived from (original license follows):
 *
 * This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
 * MD5 Message-Digest Algorithm (RFC 1321).
```

```
 *
 * Homepage:
 * http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
 *
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 * Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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 *
 * See md5.c for more information.
 */

------------------------------
ConvertUTF.h
------------------------------
/*===--- ConvertUTF.h - Universal Character Names conversions ---------------===
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```

```
 * remains attached.
 */

------------------------------
UnicodeCaseFold.cpp
------------------------------
// This file was generated by utils/unicode-case-fold.py from the Unicode
// case folding database at
//    http://www.unicode.org/Public/9.0.0/ucd/CaseFolding.txt
# CaseFolding-9.0.0.txt
# Date: 2016-03-02, 18:54:54 GMT
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------------------------------
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------------------------------
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Module com.azul.crs.client

ASM Bytecode Manipulation Framework v9.6

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Security related bug reports: <security@gnupg.org>
End-of-life: 2017-06-30
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GNUPG   Natural Resources Canada    1998-08-11
Disclaims changes by Matthew Skala.

GNUPG   Michael Roth    Germany     1998-09-17
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LIBGCRYPT Timo Schulz           2001-08-31
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LIBGCRYPT   The Written Word    2005-04-15
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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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GNUPG           David Shaw
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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
sergi at calcurco dot org.

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  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
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you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
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  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

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

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

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

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  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
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copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
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appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
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    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

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

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

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
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  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

    c) Accompany the work with a written offer, valid for at least
    three years, to give the same user the materials specified in
    Subsection 6a, above, for a charge no more than the cost of
    performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

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

    a) Accompany the combined library with a copy of the same work
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    facilities.  This must be distributed under the terms of the
    Sections above.

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

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

That's all there is to it!
```

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Whether that is true depends on what the Program does.

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of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

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    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

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    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

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

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
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a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
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Module java.base

ASM Bytecode Manipulation Framework v8.0.1

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Bert Belder: wepoll v 1.5.8

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wepoll - epoll for Windows
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    its purpose remains meaningful.

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threshold for this to be true is not precisely defined by law.

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

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

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link a "work that uses the Library" with the Library to produce a
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    with the Library, with the complete machine-readable "work that
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  For an executable, the required form of the "work that uses the
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GCC - libgcc and libstdc++ 14.2.0

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produce the work, or an object code interpreter used to run it.
  The "Corresponding Source" for a work in object code form means all
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    customarily used for software interchange.
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    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
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    long as you offer spare parts or customer support for that product
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    product that is covered by this License, on a durable physical
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    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.
    c) Convey individual copies of the object code with a copy of the
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    d) Convey the object code by offering access from a designated
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    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.
    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
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  "Installation Information" for a User Product means any methods,
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suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.
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Version 3.1, 31 March 2009
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    user can modify the Library and then relink to produce a modified
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SipHash v1.0-68c8a7c

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libnl v3.5.0

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lz4 v1.9.4

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xxHash Library License

```
xxHash - Extremely Fast Hash algorithm
Header File
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```
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You can contact the author at :
- xxHash source repository : https://github.com/Cyan4973/xxHash
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You can contact the author at :
- LZ4 source repository : https://github.com/lz4/lz4
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has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs".  This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
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standard GIF decoders.

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Device drivers    src/mesa/drivers/*     MIT, generally

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Ext headers       GL/glext.h             Khronos
                  GL/glxext.h            Khronos
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----
include/GL/gl.h :


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Module jdk.crypto.cryptoki

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Module jdk.dynalink

Dynalink v.5

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Module jdk.hsdis

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Module jdk.internal.le

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jopt-simple v5.0.4

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