**OPEN SOURCE SOFTWARE NOTICE**

The open source software notice for the open source software used in this openEuler distribution (“openEuler distribution”) is provided in this document. The open source software licenses are granted by the respective right holders. With regard to the respective open source software contained in the openEuler distribution, the applicable open source software license will prevail all other license agreement, including but not limited to the openEuler Software License, in case of any conflicts.

**Warranty Disclaimer**

**THE OPEN SOURCE SOFTWARE IN THIS OPENEULER DISTRIBUTION IS PROVIDED ON AN "AS IS" BASIS, WITHOUT ANY WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.  
See the applicable licenses for more details.**

**Copyright Notice and License Texts**

**Software:** hunspell-en 2020.12.07

**Copyright notice:**

Copyright (c) J Ross Beresford 1993-2000  
Copyright 2000-2020 by Kevin Atkinson (kevina@gnu.org) and Benjamin Titze (btitze@protonmail.ch).  
Copyright (c) J Ross Beresford 1993-1999. All Rights Reserved.  
Copyright 2000-2016 by Kevin Atkinson <kevina@gnu.org>  
Copyright 1993, Geoff Kuenning, Granada Hills, CA All rights reserved.  
Copyright 2000-2014 by Kevin Atkinson  
Copyright 2000-2019 by Kevin Atkinson  
Copyright (c) 1988-93, Grady Ward. All Rights Reserved.  
Copyright (c) 1988-93, Grady Ward. All Rights Reserved.  
Copyright 2000-2016 by Kevin Atkinson  
WordNet 1.6 Copyright 1997 by Princeton University. All rights reserved.  
Copyright (c) J Ross Beresford 1993-2000. All Rights Reserved.  
Copyright 2000-2018 by Kevin Atkinson  
Copyright 2000 by Kevin Atkinson  
Copyright 2016 by Benjamin Titze  
Copyright 2000 by Kevin Atkinson <kevina@users.sourceforge.net>

**License:** LGPLv2+ and LGPLv2 and BSD

GNU LIBRARY GENERAL PUBLIC LICENSE  
  
Version 2, June 1991  
  
Copyright (C) 1991 Free Software Foundation, Inc.  
51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA  
  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
  
[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]  
  
Preamble  
  
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 Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.  
  
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that 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 or use pieces of it in new free programs; and that you know you can do these things.  
  
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.  
  
Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.  
  
Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.  
  
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.  
  
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.  
  
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.  
  
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.  
  
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.  
  
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, while the latter only works together with the library.  
  
Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.  
  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
  
0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".  
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 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 complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an 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.  
(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.  
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 compile 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 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) 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.  
c) 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.  
d) 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 source code 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 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 based on the Library, uncombined with any other library 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.  
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.  
9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.  
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.  
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.  
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.  
  
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.  
  
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.  
  
12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.  
13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.  
Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.  
  
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.  
NO WARRANTY  
  
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.  
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.  
END OF TERMS AND CONDITIONS  
  
How to Apply These Terms to Your New Libraries  
  
If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).  
  
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.  
  
one line to give the library's name and an idea of what it does.  
Copyright (C) year name of author  
  
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.  
  
This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.  
  
You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.  
  
Also add information on how to contact you by electronic and paper mail.  
  
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:  
  
Yoyodyne, Inc., hereby disclaims all copyright interest in  
the library `Frob' (a library for tweaking knobs) written  
by James Random Hacker.  
  
signature of Ty Coon, 1 April 1990  
Ty Coon, President of Vice  
  
That's all there is to it!  
  
The GNU General Public License (GPL) Version 2, June 1991  
  
Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor  
Boston, MA 02110-1335  
USA  
  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.  
  
Preamble  
  
The licenses for most software are designed to take away your freedom to  
share and change it. By contrast, the GNU General Public License is  
intended to guarantee your freedom to share and change free software--to  
make sure the software is free for all its users. This General Public  
License applies to most of the Free Software Foundation's software and  
to any other program whose authors commit to using it. (Some other Free  
Software Foundation software is covered by the GNU Library General  
Public License instead.) You can apply it to your programs, too.  
  
When we speak of free software, we are referring to freedom, not price.  
Our General Public Licenses are designed to make sure that 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 or use pieces of it in new  
free programs; and that you know you can do these things.  
  
To protect your rights, we need to make restrictions that forbid anyone  
to deny you these rights or to ask you to surrender the rights. These  
restrictions translate to certain responsibilities for you if you  
distribute copies of the software, or if you modify it.  
  
For example, if you distribute copies of such a program, whether gratis  
or for a fee, you must give the recipients all the rights that you have.  
You must make sure that they, too, receive or can get the source code.  
And you must show them these terms so they know their rights.  
  
We protect your rights with two steps: (1) copyright the software, and  
(2) offer you this license which gives you legal permission to copy,  
distribute and/or modify the software.  
  
Also, for each author's protection and ours, we want to make certain  
that everyone understands that there is no warranty for this free  
software. If the software is modified by someone else and passed on, we  
want its recipients to know that what they have is not the original, so  
that any problems introduced by others will not reflect on the original  
authors' reputations.  
  
Finally, any free program is threatened constantly by software patents.  
We wish to avoid the danger that redistributors of a free program will  
individually obtain patent licenses, in effect making the program  
proprietary. To prevent this, we have made it clear that any patent must  
be licensed for everyone's free use or not licensed at all.  
  
The precise terms and conditions for copying, distribution and  
modification follow.  
  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
  
0. This License applies to any program or other work which contains a  
notice placed by the copyright holder saying it may be distributed under  
the terms of this General Public License. The "Program", below, refers  
to any such program or work, and a "work based on the Program" means  
either the Program or any derivative work under copyright law: that is  
to say, a work containing the Program or a portion of it, either  
verbatim or with modifications and/or translated into another language.  
(Hereinafter, translation is included without limitation in the term  
"modification".) Each licensee is addressed as "you".  
  
Activities other than copying, distribution and modification are not  
covered by this License; they are outside its scope. The act of running  
the Program is not restricted, and the output from the Program is  
covered only if its contents constitute a work based on the Program  
(independent of having been made by running the Program). Whether that  
is true depends on what the Program does.  
  
1. You may copy and distribute verbatim copies of the Program's source  
code as you receive it, in any medium, provided that you conspicuously  
and appropriately publish on each copy an 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 give any other  
recipients of the Program a copy of this License along with the Program.  
  
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 Program or any portion 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:  
  
 a) You must cause the modified files to carry prominent notices  
 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.  
  
 c) If the modified program normally reads commands interactively  
 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  
collective works based on the Program.  
  
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 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 an offer, in  
 accord with Subsection b above.)  
  
The source code for a work means the preferred form of the work for  
making modifications to it. For an executable work, 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 executable. However, as a special  
exception, the source code 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.  
  
If distribution of executable or 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 counts as distribution of the source  
code, even though third parties are not compelled to copy the source  
along with the object code.  
  
4. You may not copy, modify, sublicense, or distribute the Program  
except as expressly provided under this License. Any attempt otherwise  
to copy, modify, sublicense or distribute the Program is void, and will  
automatically terminate your rights under this License. However, parties  
who have received copies, or rights, from you under this License will  
not have their licenses terminated so long as such parties remain in  
full compliance.  
  
5. You are not required to accept this License, since you have not  
signed it. However, nothing else grants you permission to modify or  
distribute the Program or its derivative works. These actions are  
prohibited by law if you do not accept this License. Therefore, by  
modifying or distributing the Program (or any work based on the  
Program), you indicate your acceptance of this License to do so, and all  
its terms and conditions for copying, distributing or modifying the  
Program or works based on it.  
  
6. Each time you redistribute the Program (or any work based on the  
Program), the recipient automatically receives a license from the  
original licensor to copy, distribute or modify the Program subject to  
these terms and conditions. You may not impose any further restrictions  
on the recipients' exercise of the rights granted herein. You are not  
responsible for enforcing compliance by third parties to this License.  
  
7. If, as a consequence of a court judgment or allegation of patent  
infringement or for any other reason (not limited to patent issues),  
conditions are imposed on you (whether by court order, agreement or  
otherwise) that contradict the conditions of this License, they do not  
excuse you from the conditions of this License. If you cannot distribute  
so as to satisfy simultaneously your obligations under this License and  
any other pertinent obligations, then as a consequence you may not  
distribute the Program at all. For example, if a patent license would  
not permit royalty-free redistribution of the Program by all those who  
receive copies directly or indirectly through you, then the only way you  
could satisfy both it and this License would be to refrain entirely from  
distribution of the Program.  
  
If any portion of this section is held invalid or unenforceable under  
any particular circumstance, the balance of the section is intended to  
apply and the section as a whole is intended to apply in other  
circumstances.  
  
It is not the purpose of this section to induce you to infringe any  
patents or other property right claims or to contest validity of any  
such claims; this section has the sole purpose of protecting the  
integrity of the free software distribution system, which is implemented  
by public license practices. Many people have made generous  
contributions to the wide range of software distributed through that  
system in reliance on consistent application of that system; it is up to  
the author/donor to decide if he or she is willing to distribute  
software through any other system and a licensee cannot impose that choice.  
  
This section is intended to make thoroughly clear what is believed to be  
a consequence of the rest of this License.  
  
8. If the distribution and/or use of the Program is restricted in  
certain countries either by patents or by copyrighted interfaces, the  
original copyright holder who places the Program under this License may  
add an explicit geographical distribution limitation excluding those  
countries, so that distribution is permitted only in or among countries  
not thus excluded. In such case, this License incorporates the  
limitation as if written in the body of this License.  
  
9. The Free Software Foundation may publish revised and/or new  
versions of the General Public License from time to time. Such new  
versions will be similar in spirit to the present version, but may  
differ in detail to address new problems or concerns.  
  
Each version is given a distinguishing version number. If the Program  
specifies a version number of this License which applies to it and "any  
later version", you have the option of following the terms and  
conditions either of that version or of any later version published by  
the Free Software Foundation. If the Program does not specify a version  
number of this License, you may choose any version ever published by the  
Free Software Foundation.  
  
10. If you wish to incorporate parts of the Program into other free  
programs whose distribution conditions are different, write to the  
author to ask for permission. For software which is copyrighted by the  
Free Software Foundation, write to the Free Software Foundation; we  
sometimes make exceptions for this. Our decision will be guided by the  
two goals of preserving the free status of all derivatives of our free  
software and of promoting the sharing and reuse of software generally.  
  
NO WARRANTY  
  
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO  
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR  
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,  
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE  
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH  
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL  
NECESSARY SERVICING, REPAIR OR CORRECTION.  
  
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN  
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY  
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR  
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL  
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM  
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED  
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF  
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR  
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.  
  
END OF TERMS AND CONDITIONS  
  
How to Apply These Terms to Your New Programs  
  
If you develop a new program, and you want it to be of the greatest  
possible use to the public, the best way to achieve this is to make it  
free software which everyone can redistribute and change under these terms.  
  
To do so, attach the following notices to the program. It is safest to  
attach them to the start of each source file to most effectively convey  
the exclusion of warranty; and each file should have at least the  
"copyright" line and a pointer to where the full notice is found.  
  
 One line to give the program's name and a brief idea of what it does.  
 Copyright (C) <year> <name of author>  
  
 This program is free software; you can redistribute it and/or modify  
 it under the terms of the GNU General Public License as published by  
 the Free Software Foundation; either version 2 of the License, or  
 (at your option) any later version.  
  
 This program is distributed in the hope that it will be useful, but  
 WITHOUT ANY WARRANTY; without even the implied warranty of  
 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU  
 General Public License for more details.  
  
 You should have received a copy of the GNU General Public License  
 along with this program; if not, write to the Free Software  
 Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA  
  
Also add information on how to contact you by electronic and paper mail.  
  
If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:  
  
 Gnomovision version 69, Copyright (C) year name of author  
 Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type  
 `show w'. This is free software, and you are welcome to redistribute  
 it under certain conditions; type `show c' for details.  
  
The hypothetical commands `show w' and `show c' should show the  
appropriate parts of the General Public License. Of course, the commands  
you use may be called something other than `show w' and `show c'; they  
could even be mouse-clicks or menu items--whatever suits your program.  
  
You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:  
  
 Yoyodyne, Inc., hereby disclaims all copyright interest in the  
 program `Gnomovision' (which makes passes at compilers) written by  
 James Hacker.  
  
 signature of Ty Coon, 1 April 1989  
 Ty Coon, President of Vice  
  
This General Public License does not permit incorporating your program  
into proprietary programs. If your program is a subroutine library, you  
may consider it more useful to permit linking proprietary applications  
with the library. If this is what you want to do, use the GNU Library  
General Public License instead of this License.  
  
  
BSD Zero Clause License  
Copyright (C) 2006 by Rob Landley <rob@landley.net>  
  
Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted.  
  
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

**Written Offer**

This openEuler distribution may contain certain software whose rights holders license it on the terms of the GNU General Public License, version 2 (GPLv2) or other open source software licenses which require us to release corresponding source code. We will provide you and any third party with corresponding source code required under applicable open source software license through the repository: https://gitee.com/src-openeuler/. You can access and obtain corresponding source code by searching the aforementioned repository using package name and tag.

This offer is valid to anyone in receipt of this information.

**THIS OFFER IS VALID FOR THREE YEARS FROM THE MOMENT WE DISTRIBUTED THIS OPENEULER DISTRIBUTION .**