

# 开源软件声明

## OPEN SOURCE SOFTWARE NOTICE

开源软件名称 OPEN SOURCE SOFTWARE NAME	开源软件版本 OPEN SOURCE SOFTWARE VERSION	许可证名称 LICENCE NAME	开源软件的官网地址 OPEN SOURCE SOFTWARE WEBSITE
Qt	5.12	LGPL3	<a href="https://www.qt.io/">https://www.qt.io/</a>
OpenCasCade	7.4	LGPL2.1	<a href="https://www.opencascade.com/">https://www.opencascade.com/</a>
VTK	8.1	BSD	<a href="http://www.vtk.org">http://www.vtk.org</a>
Python	3.7.8	Python	<a href="https://www.python.org/">https://www.python.org/</a>
Boost	1.67	Boost 1.0	<a href="https://www.boost.org/">https://www.boost.org/</a>
Coin3D	4.0	BSD 3-Clause	<a href="https://github.com/coin3d/coin">https://github.com/coin3d/coin</a>
OpenSSL	1.1.0	Apache2.0	<a href="https://www.openssl.org/">https://www.openssl.org/</a>
Xerces-C	3.1	Apache2.1	<a href="http://xerces.apache.org/xerces-c/">http://xerces.apache.org/xerces-c/</a>
Zlib	1.2.8	Zlib	<a href="http://zlib.net/">http://zlib.net/</a>
rapidjson	1.1.0	MIT License	<a href="https://github.com/Tencent/rapidjson">https://github.com/Tencent/rapidjson</a>
QtXmlWriter	0.3.0	MIT License	<a href="https://github.com/dbzhang800/QtXmlWriter">https://github.com/dbzhang800/QtXmlWriter</a>
QWT	6.2.0	QWT License	<a href="https://qwt.sourceforge.io/">https://qwt.sourceforge.io/</a>
7-zip	16.4.0	LGPL License	<a href="https://www.7-zip.org">https://www.7-zip.org</a>
ffmpeg	4.3.2	LGPL3	<a href="https://ffmpeg.org/">https://ffmpeg.org/</a>
PETSc	3.14	BSD 2-clause	<a href="https://www.mcs.anl.gov/petsc">https://www.mcs.anl.gov/petsc</a>

MSMPI	10.1.1	MIT	<a href="https://www.microsoft.com/en-us/download/details.aspx?id=100305">https://www.microsoft.com/en-us/download/details.aspx?id=100305</a>
Hypre	2.19.0	MIT/Apache2.0	<a href="https://github.com/hypre-space/hypre">https://github.com/hypre-space/hypre</a>
METIS	5.1.0	Apache2.0	<a href="http://glaros.dtc.umn.edu/gkhome/metis/metis">http://glaros.dtc.umn.edu/gkhome/metis/metis</a>
HDF5	1.10.7	HDF5 License	<a href="https://www.hdfgroup.org">https://www.hdfgroup.org</a>
MUMPS	5.1.2	CeCILL-C license	<a href="http://mumps.enseeiht.fr">http://mumps.enseeiht.fr</a>
spdlog	1.9.2	MIT	<a href="https://codeload.github.com/gabime/spdlog">https://codeload.github.com/gabime/spdlog</a>

## 1 Software 软件名称及软件版本

开源软件名称 OPEN SOURCE SOFTWARE NAME	开源软件版本 OPEN SOURCE SOFTWARE VERSION
Qt	5.12
OpenCasCade	7.4
VTK	8.1
Python	3.7.8
Boost	1.67
Coin3D	4.0
OpenSSL	1.1.0
Xerces-C	3.1
Zlib	1.2.8
rapidjson	1.1.0

QtXlsxWriter	0.3.0
QWT	6.2.0
7-zip	16.4.0
ffmpeg	4.3.2
PETSc	3.14
MSMPI	10.1.1
Hypre	2.19.0
METIS	5.1.0
HDF5	1.10.7
MUMPS	5.1.2
spdlog	1.9.2

## 2 Copyright notice 版权声明

开源软件名称 <b>OPEN SOURCE SOFTWARE NAME</b>	<b>Copyright notice 版权声明</b>
Qt	Copyright (C) 2017 The Qt Company Ltd.
OpenCasCade	<a href="#">Copyright © 2023 Open Cascade</a>
VTK	Copyright (c) 1993-2015 Ken Martin, Will Schroeder, Bill Lorensen All rights reserved.
Python	Copyright © 2001-2021 Python Software Foundation. All rights reserved.
Boost	Copyright Beman Dawes, David Abrahams, 1998-2005. Copyright Rene Rivera 2004-2007.

Coin3D	Copyright (c) Kongsberg Oil & Gas Technologies AS All rights reserved.
OpenSSL	Copyright © 1999-2018, OpenSSL Software Foundation
Xerces-C	Copyright © 1999-2018 The Apache Software Foundation.
Zlib	Copyright © 1995-2017 Jean-loup Gailly and Mark Adler.
rapidjson	Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip.
QtXlsxWriter	Copyright (c) 2013-2014 Debao Zhang <hello@debao.me>
QWT	Uwe Rathmann, Josef Wilgen ( <= Qwt 0.2 )
7-zip	Copyright (C) 2021 Igor Pavlov
ffmpeg	FFmpeg is a trademark of Fabrice Bellard, originator of the FFmpeg project.
PETSc	Copyright (c) 1991-2020, UChicago Argonne, LLC and the PETSc Development Team All rights reserved.
MSMPI	Copyright (c) Microsoft Corporation. All rights reserved
Hypre	Copyrights and patents in the HYPRE project are retained by contributors. No copyright assignment is required to contribute to HYPRE.
METIS	Copyright 1995-2013, Regents of the University of Minnesota
HDF5	HDF5 (Hierarchical Data Format 5) Software Library and Utilities

	Copyright 2006 by The HDF Group. NCSA HDF5 (Hierarchical Data Format 5) Software Library and Utilities Copyright 1998-2006 by The Board of Trustees of the University of Illinois. All rights reserved. Copyright 1991-2021 CERFACS, CNRS, ENS Lyon, INP Toulouse, Inria, Mumps Technologies, University of Bordeaux.
MUMPS	
spdlog	Copyright (c) 2016 Gabi Melman.

### 3 License 许可证

*License: GNU Lesser General Public License (LGPL) version 3.0.*

#### *GNU LESSER GENERAL PUBLIC LICENSE Version 3, 29 June 2007*

*Copyright (C) 2007 Free Software Foundation, Inc.  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.*

*This version of the GNU Lesser General Public License incorporates  
the terms and conditions of version 3 of the GNU General Public  
License, supplemented by the additional permissions listed below.*

*0. Additional Definitions.*

*As used herein, "this License" refers to version 3 of the GNU Lesser  
General Public License, and the "GNU GPL" refers to version 3 of the*

GNU

*General Public License.*

*"The Library" refers to a covered work governed by this License,  
other than an Application or a Combined Work as defined below.*

*An "Application" is any work that makes use of an interface provided  
by the Library, but which is not otherwise based on the Library.*

*Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.*

*A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".*

code

*The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source*

*for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.*

*The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.*

#### *1. Exception to Section 3 of the GNU GPL.*

*You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.*

#### *2. Conveying Modified Versions.*

*If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:*

*a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or*

*b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.*

#### *3. Object Code Incorporating Material from Library Header Files.*

*The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated*

*material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:*

*a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.*

*license*

*b) Accompany the object code with a copy of the GNU GPL and this document.*

#### *4. Combined Works.*

*You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:*

*a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.*

*license*

*b) Accompany the Combined Work with a copy of the GNU GPL and this document.*

*c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.*

*d) Do one of the following:*

*0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.*

*1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time*

*a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.*

*e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)*

#### *5. Combined Libraries.*

*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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:*

*a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.*

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

#### *6. Revised Versions of the GNU Lesser General Public License.*

*The Free Software Foundation may publish revised and/or new versions of the GNU Lesser 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 as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version*



*published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.*

*If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.*

---

*License: GNU Lesser General Public License (LGPL) version 2.1 with additional exception.*

**GNU LESSER GENERAL PUBLIC LICENSE**  
Version 2.1, February 1999

*Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
51 Franklin Street, 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 Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]*

*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 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  
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.*

*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.*

**GNU LESSER GENERAL PUBLIC LICENSE**  
**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND**  
**MODIFICATION**

*0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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 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 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 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 with 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 Lesser 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 a brief 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 Lesser General Public License as published by the Free Software Foundation; either version 2.1 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 Lesser General Public License for more details.*

*You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, 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!*

*OPEN CASCADE EXCEPTION (VERSION 1.0) TO GNU LGPL VERSION*

2.1.

*p>The object code (i.e. not a source) form of a "work that uses the Library" can incorporate material from a header file that is part of the Library.*

*As a special exception to the GNU Lesser General Public License version*

2.1,

*you may distribute such object code incorporating material from header files provided with the Open CASCADE Technology libraries (including code of CDL generic classes) under terms of your choice, provided that you give prominent notice in supporting documentation to this*

code

*that it makes use of or is based on facilities provided by the Open*

CASCADE

*Technology software.*

---

*The Boost Software License specifies the terms and conditions of use for those Boost libraries that it covers.*

*License: Boost Software License*

*Boost Software License - Version 1.0 - August 17th, 2003*

*Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered*

by

*this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:*

*The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated*

by

*a source language processor.*

*THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR*

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-  
INFRINGEMENT. IN NO EVENT  
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE  
SOFTWARE BE LIABLE  
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT,  
TORT OR OTHERWISE,  
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE  
OR THE USE OR OTHER  
DEALINGS IN THE SOFTWARE.

---

Copyright: Coin is copyright (C) 1998-2013 Kongsberg Oil & Gas  
Technologies AS  
License: BSD 3-clause

*Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are  
met:*

*Redistributions of source code must retain the above copyright notice,  
this list of conditions and the following disclaimer.*

*Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.*

*Neither the name of the copyright holder nor the names of its  
contributors may be used to endorse or promote products derived from  
this software without specific prior written permission.*

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND  
CONTRIBUTORS  
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT  
NOT  
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND  
FITNESS FOR  
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE  
COPYRIGHT  
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,  
INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,  
BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;  
LOSS OF USE,  
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER  
CAUSED AND ON ANY  
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR  
TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT  
OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH  
DAMAGE.

---

License: Python

## A. HISTORY OF THE SOFTWARE

---

*Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://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 <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 the Open Source Definition). Historically, most, but not all, Python 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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

*Footnotes:*

(1) *GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.*

(2) *According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.*

*Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.*

## B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

---

---

### PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

-----

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.



2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and

*Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.*

*8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.*

## *BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0*

*-----*

### *BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1*

- 1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"),*  
*having an*  
*office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the*  
*Individual or Organization ("Licensee") accessing and otherwise using*  
*this software in source or binary form and its associated*  
*documentation ("the Software").*
- 2. Subject to the terms and conditions of this BeOpen Python License*  
*Agreement, BeOpen hereby grants Licensee a non-exclusive,*  
*royalty-free, world-wide license to reproduce, analyze, test, perform*  
*and/or display publicly, prepare derivative works, distribute, and*  
*otherwise use the Software alone or in any derivative version,*  
*provided, however, that the BeOpen Python License is retained in the*  
*Software, alone or in any derivative version prepared by Licensee.*
- 3. BeOpen is making the Software available to Licensee on an "AS IS"*  
*basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES,*  
*EXPRESS OR*  
*IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN*  
*MAKES NO AND*  
*DISCLAIMS ANY REPRESENTATION OR WARRANTY OF*  
*MERCHANTABILITY OR FITNESS*  
*FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE*  
*SOFTWARE WILL NOT*  
*INFRINGE ANY THIRD PARTY RIGHTS.*
- 4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER*  
*USERS OF THE*  
*SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL*  
*DAMAGES OR LOSS*

AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE  
SOFTWARE, OR ANY  
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY  
THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at <http://www.pythonlabs.com/logos.html> may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

#### CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

-----

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with

*Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: <http://hdl.handle.net/1895.22/1013>".*

*3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.*

*4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.*

*5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.*

*6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.*

*7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this*

*License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.*

*8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.*

**CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2**  
-----

*Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.*

*Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.*

**STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL  
WARRANTIES WITH REGARD TO  
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF  
MERCHANTABILITY AND  
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH  
CENTRUM BE LIABLE  
FOR ANY SPECIAL, 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.**

---

*interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022*

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

*This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.*

*Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:*

- 1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.*
- 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.*
- 3. This notice may not be removed or altered from any source distribution.*

Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
[madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

---

*License: BSD 3-clause*

*Copyright (c) 1993-2015 Ken Martin, Will Schroeder, Bill Lorensen  
All rights reserved.*

*Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:*

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.*
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.*
- \* Neither name of Ken Martin, Will Schroeder, or Bill Lorensen nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.*

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND  
CONTRIBUTORS ``AS IS"  
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE  
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR  
CONTRIBUTORS BE LIABLE FOR  
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS OR  
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER  
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
CONTRACT, STRICT LIABILITY,  
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN  
ANY WAY OUT OF THE USE  
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
SUCH DAMAGE.

---

*License: Apache License Version 2.0*

*Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>*

## *TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION*

### *1. Definitions.*

*"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.*

*"Licensor" shall mean the copyright owner or entity authorized by  
the copyright owner that is granting the License.*

*"Legal Entity" shall mean the union of the acting entity and all  
other entities that control, are controlled by, or are under common  
control with that entity. For the purposes of this definition,*

*"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.*

*"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.*

*"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.*

*"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.*

*"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).*

*"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.*

*"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control*

*systems,*

*and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."*



*"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.*

*2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.*

*3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.*

*4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:*

*(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and*

*(b) You must cause any modified files to carry prominent notices stating that You changed the files; and*

*(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and*

*(d) If the Work includes a "NOTICE" text file as part of its*

*distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.*

*You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.*

*5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.*

*6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.*

*7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS*

*FOR A*

the

*PARTICULAR PURPOSE. You are solely responsible for determining appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.*

*8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.*

*9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.*

#### *END OF TERMS AND CONDITIONS*

#### *APPENDIX: How to apply the Apache License to your work.*

*To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[ ]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.*

*Copyright [yyyy] [name of copyright owner]*

*Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.*

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

---

#### License: Zlib

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes.

Please

read the FAQ for more information on the distribution of modified source

---

versions.

---

License: OpenSSL and SSLeay license

*the OpenSSL License and the original SSLeay license apply to the toolkit.  
See below for the actual license texts.*

*OpenSSL License*

-----

---

---

=

*Copyright (c) 1998-2019 The OpenSSL Project. All rights reserved.*

*Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions  
are met:*

- 1. Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.*
- 2. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in  
the documentation and/or other materials provided with the  
distribution.*
- 3. All advertising materials mentioning features or use of this  
software must display the following acknowledgment:  
"This product includes software developed by the OpenSSL Project  
for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"*
- 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used  
to  
endorse or promote products derived from this software without  
prior written permission. For written permission, please contact  
[openssl-core@openssl.org](mailto:openssl-core@openssl.org).*
- 5. Products derived from this software may not be called "OpenSSL"  
nor may "OpenSSL" appear in their names without prior written  
permission of the OpenSSL Project.*
- 6. Redistributions of any form whatsoever must retain the following  
acknowledgment:*

*"This product includes software developed by the OpenSSL Project  
for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"*

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS"  
AND ANY  
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR  
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL  
PROJECT OR  
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,  
INCIDENTAL,  
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,  
BUT  
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR  
SERVICES;  
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER  
IN CONTRACT,  
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR  
OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN  
IF ADVISED  
OF THE POSSIBILITY OF SUCH DAMAGE.

---

---

*This product includes cryptographic software written by Eric Young  
([eay@cryptsoft.com](mailto:eay@cryptsoft.com)). This product includes software written by Tim  
Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).*

*Original SSLeay License*

-----  
*Copyright (C) 1995-1998 Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com))  
All rights reserved.*

*This package is an SSL implementation written  
by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)).  
The implementation was written so as to conform with Netscapes SSL.*

*This library is free for commercial and non-commercial use as long as  
the following conditions are aheared to. The following conditions*

*apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).*

*Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.*

*If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used.*

*This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.*

*Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:*

- 1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.*
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.*
- 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:*

*"This product includes cryptographic software written by  
Eric Young (eay@cryptsoft.com)"*

*The word 'cryptographic' can be left out if the routines from the library being used are not cryptographic related :-).*

- 4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an*

*acknowledgement:*

*"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"*

*THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE  
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR  
CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,  
OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS  
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION)*

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER  
IN CONTRACT, STRICT  
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY  
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF  
SUCH DAMAGE.

*The licence and distribution terms for any publically available version or  
derivative of this code cannot be changed. i.e. this code cannot simply be  
copied and put under another distribution licence  
[including the GNU Public Licence.]*

---

*License: BSD 2-clause*

*Copyright (c) 1991-2021, UChicago Argonne, LLC and the PETSc  
Development Team  
All rights reserved.*

*Redistribution and use in source and binary forms, with or without  
modification,  
are permitted provided that the following conditions are met:*

*\* Redistributions of source code must retain the above copyright notice,  
this  
list of conditions and the following disclaimer.*

*\* Redistributions in binary form must reproduce the above copyright  
notice, this*

*list of conditions and the following disclaimer in the documentation and/or  
other materials provided with the distribution.*

*THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS  
AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED*

*WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE ARE*

*DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR  
CONTRIBUTORS BE LIABLE FOR*

*ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES*

*(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS OR SERVICES;*



LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON  
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH  
DAMAGE.

This license DOES NOT apply to any software that may be obtained via  
the  
--download-package option of the PETSc configuration. Each of those  
packages is  
covered by its own license(s).

---

License: BSD 3-clause

BSD 3-Clause License Copyright (c) 2002-2019, Lawrence Livermore  
National Security  
and Southern Methodist University. All rights reserved. Redistribution  
and use in source and binary forms, with or without modification,  
are permitted provided that the following conditions are met: \*

Redistributions  
of source code must retain the above copyright notice, this list of  
conditions  
and the following disclaimer. \* Redistributions in binary form must  
reproduce  
the above copyright notice, this list of conditions and the following  
disclaimer  
in the documentation and/or other materials provided with the  
distribution.

\* Neither the name of the copyright holder nor the names of its  
contributors  
may be used to endorse or promote products derived from this  
software without  
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS  
AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT  
LIMITED TO, THE IMPLIED  
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A  
PARTICULAR PURPOSE ARE

DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR  
CONTRIBUTORS BE LIABLE FOR  
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES  
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS OR SERVICES;  
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER CAUSED AND ON  
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT  
LIABILITY, OR TORT  
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY  
WAY OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH  
DAMAGE.

---

License: MIT and Apache 2.0

HYPRE is distributed under the terms of both the MIT license and the  
Apache  
License (Version 2.0). Users may choose either license, at their option.  
All new contributions must be made under both the MIT and Apache-2.0  
licenses.

---

License: Apache 2.0

#### Copyright & License Notice

-----

Copyright 1995-2013, Regents of the University of Minnesota

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at  
<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express  
or  
implied. See the License for the specific language governing  
permissions and limitations under the License.

---

## MIT License

Copyright (c) 2021 Michael Hirsch

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

## CeCILL-C FREE SOFTWARE LICENSE AGREEMENT

### Notice

This Agreement is a Free Software license agreement that is the result of discussions between its authors in order to ensure compliance with the two main principles guiding its drafting:

firstly, compliance with the principles governing the distribution of Free Software: access to source code, broad rights granted to users, secondly, the election of a governing law, French law, with which it is conformant, both as regards the law of torts and intellectual property law, and the protection that it offers to both authors and holders of the economic rights over software.

The authors of the CeCILL-C1 license are:

*Commissariat à l'Energie Atomique - CEA, a public scientific, technical and industrial research establishment, having its principal place of business at 25 rue Leblanc, immeuble Le Ponant D, 75015 Paris, France.*

*and*  
*Centre National de la Recherche Scientifique - CNRS, a public scientific technological establishment, having its principal place of business at 3 rue Michel-Ange, 75794 Paris cedex 16, France.*

*a*  
*Institut National de Recherche en Informatique et en Automatique - INRIA, public scientific and technological establishment, having its principal place of business at Domaine de Voluceau, Rocquencourt, BP 105, 78153 Le Chesnay cedex, France.*

*Preamble*  
*The purpose of this Free Software license agreement is to grant users the right*  
*to modify and re-use the software governed by this license.*

*The exercising of this right is conditional upon the obligation to make available*  
*to the community the modifications made to the source code of the software so*  
*as to contribute to its evolution.*

*In consideration of access to the source code and the rights to copy, modify and*  
*redistribute granted by the license, users are provided only with a limited warranty*  
*and the software's author, the holder of the economic rights, and the successive*  
*licensors only have limited liability.*

*In this respect, the risks associated with loading, using, modifying and/or developing or reproducing the software by the user are brought to the user's*  
*attention, given its Free Software status, which may make it complicated to use, with the result that its use is reserved for developers and experienced professionals having in-depth computer knowledge. Users are therefore encouraged*  
*to load and test the suitability of the software as regards their requirements*

ensured  
security.  
altered,

*in conditions enabling the security of their systems and/or data to be*  
*and, more generally, to use and operate it in the same conditions of*  
*This Agreement may be freely reproduced and published, provided it is not*  
*and that no provisions are either added or removed herefrom.*

*This Agreement may apply to any or all software for which the holder of the economic rights decides to submit the use thereof to its provisions.*

#### *Article 1 - DEFINITIONS*

commence

*For the purpose of this Agreement, when the following expressions*  
*with a capital letter, they shall have the following meaning:*

versions

*Agreement: means this license agreement, and its possible subsequent*  
*and annexes.*

and,

*Software: means the software in its Object Code and/or Source Code form*  
*where applicable, its documentation, "as is" when the Licensee accepts the*  
*Agreement.*

Object

*Initial Software: means the Software in its Source Code and possibly its*  
*Code form and, where applicable, its documentation, "as is" when it is first*  
*distributed under the terms and conditions of the Agreement.*

*Modified Software: means the Software modified by at least one Integrated Contribution.*

*Source Code: means all the Software's instructions and program lines to which access is required so as to modify the Software.*

*Object Code: means the binary files originating from the compilation of the Source Code.*

*Holder: means the holder(s) of the economic rights over the Initial Software.*

*Licensee: means the Software user(s) having accepted the Agreement.*

*Contributor: means a Licensee having made at least one Integrated Contribution.*

*Licensor: means the Holder, or any other individual or legal entity, who distributes the Software under the Agreement.*

*Integrated Contribution: means any or all modifications, corrections, translations, adaptations and/or new functions integrated into the Source Code by any or all Contributors.*

*Related Module: means a set of sources files including their documentation that, without modification to the Source Code, enables supplementary functions or services in addition to those offered by the Software.*

*Derivative Software: means any combination of the Software, modified or not, and of a Related Module.*

*Parties: mean both the Licensee and the Licensor.*

*These expressions may be used both in singular and plural form.*

## *Article 2 - PURPOSE*

*The purpose of the Agreement is the grant by the Licensor to the Licensee of a non-exclusive, transferable and worldwide license for the Software as set forth in Article 5 hereinafter for the whole term of the protection granted by the rights over said Software.*

## *Article 3 - ACCEPTANCE*

*3.1 The Licensee shall be deemed as having accepted the terms and conditions of this Agreement upon the occurrence of the first of the following events:*

*(i) loading the Software by any or all means, notably, by downloading from a remote server, or by loading from a physical medium;*  
*(ii) the first time the Licensee exercises any of the rights granted hereunder.*

*3.2 One copy of the Agreement, containing a notice relating to the characteristics of the Software, to the limited warranty, and to the fact that its use is restricted to experienced users has been provided to the Licensee prior to its acceptance as set forth in Article 3.1 hereinabove, and the Licensee hereby*

*acknowledges that it has read and understood it.*

#### **Article 4 - EFFECTIVE DATE AND TERM**

##### **4.1 EFFECTIVE DATE**

*The Agreement shall become effective on the date when it is accepted by the Licensee as set forth in Article 3.1.*

##### **4.2 TERM**

*The Agreement shall remain in force for the entire legal term of protection of the economic rights over the Software.*

#### **Article 5 - SCOPE OF RIGHTS GRANTED**

*The Licensor hereby grants to the Licensee, who accepts, the following rights over the Software for any or all use, and for the term of the Agreement, on the basis of the terms and conditions set forth hereinafter.*

*Besides, if the Licensor owns or comes to own one or more patents protecting all or part of the functions of the Software or of its components, the Licensor undertakes not to enforce the rights granted by these patents against successive Licensees using, exploiting or modifying the Software. If these patents are transferred, the Licensor undertakes to have the transferees subscribe to the obligations set forth in this paragraph.*

##### **5.1 RIGHT OF USE**

*The Licensee is authorized to use the Software, without any limitation as to its fields of application, with it being hereinafter specified that this comprises:*

*permanent or temporary reproduction of all or part of the Software by any or all means and in any or all form.*

*loading, displaying, running, or storing the Software on any or all medium.*

*entitlement to observe, study or test its operation so as to determine the ideas and principles behind any or all constituent elements of said Software.*

*This shall apply when the Licensee carries out any or all loading, displaying, running, transmission or storage operation as regards the Software, that it is entitled to carry out hereunder.*

## 5.2 RIGHT OF MODIFICATION

*The right of modification includes the right to translate, adapt, arrange, or make any or all modifications to the Software, and the right to reproduce the resulting software. It includes, in particular, the right to create a Derivative Software.*

*The Licensee is authorized to make any or all modification to the Software provided that it includes an explicit notice that it is the author of said modification and indicates the date of the creation thereof.*

## 5.3 RIGHT OF DISTRIBUTION

*In particular, the right of distribution includes the right to publish, transmit and communicate the Software to the general public on any or all medium, and by any or all means, and the right to market, either in consideration of a fee, or free of charge, one or more copies of the Software by any means.*

*The Licensee is further authorized to distribute copies of the modified or unmodified Software to third parties according to the terms and conditions set forth hereinafter.*

### 5.3.1 DISTRIBUTION OF SOFTWARE WITHOUT MODIFICATION

*The Licensee is authorized to distribute true copies of the Software in Source Code or Object Code form, provided that said distribution complies with all the provisions of the Agreement and is accompanied by:*

*a copy of the Agreement,*

*a notice relating to the limitation of both the Licensor's warranty and liability as set forth in Articles 8 and 9,*

*and that, in the event that only the Object Code of the Software is redistributed, the Licensee allows effective access to the full Source Code of the Software at a minimum during the entire period of its distribution of the Software, it being understood that the additional cost of acquiring the Source Code shall not exceed the cost of transferring the data.*

### 5.3.2 DISTRIBUTION OF MODIFIED SOFTWARE

*When the Licensee makes an Integrated Contribution to the Software, the terms and conditions for the distribution of the resulting Modified Software become subject to all the provisions of this Agreement.*

*The Licensee is authorized to distribute the Modified Software, in*



*source code or object code form, provided that said distribution complies with all the provisions of the Agreement and is accompanied by:*

*a copy of the Agreement,*

*a notice relating to the limitation of both the Licensor's warranty and liability as set forth in Articles 8 and 9,*

*and that, in the event that only the object code of the Modified Software is redistributed, the Licensee allows effective access to the full source code of the Modified Software at a minimum during the entire period of its distribution of the Modified Software, it being understood that the additional cost of acquiring the source code shall not exceed the cost of transferring the data.*

### **5.3.3 DISTRIBUTION OF DERIVATIVE SOFTWARE**

*When the Licensee creates Derivative Software, this Derivative Software*

*may*

*be distributed under a license agreement other than this Agreement,*

*subject*

*to compliance with the requirement to include a notice concerning the rights over the Software as defined in Article 6.4. In the event the creation of the Derivative Software required modification of the Source Code, the*

*Licensee*

*undertakes that:*

*the resulting Modified Software will be governed by this Agreement, the Integrated Contributions in the resulting Modified Software will be clearly identified and documented, the Licensee will allow effective access to the source code of the Modified Software, at a minimum during the entire period of distribution of the Derivative Software, such that such modifications may be carried over in a subsequent version of the Software; it being understood that the additional cost of purchasing the source code of the Modified Software shall not exceed the cost of transferring the data.*

### **5.3.4 COMPATIBILITY WITH THE CeCILL LICENSE**

*When a Modified Software contains an Integrated Contribution subject to*

*the*

*CeCILL license agreement, or when a Derivative Software contains a*

*Related*

*Module subject to the CeCILL license agreement, the provisions set forth*

*in*

*the third item of Article 6.4 are optional.*

## **Article 6 - INTELLECTUAL PROPERTY**

## 6.1 OVER THE INITIAL SOFTWARE

*The Holder owns the economic rights over the Initial Software. Any or all use of the Initial Software is subject to compliance with the terms and conditions under which the Holder has elected to distribute its work and no one shall be entitled to modify the terms and conditions for the distribution of said Initial Software.*

*The Holder undertakes that the Initial Software will remain ruled at least by this Agreement, for the duration set forth in Article 4.2.*

## 6.2 OVER THE INTEGRATED CONTRIBUTIONS

*The Licensee who develops an Integrated Contribution is the owner of the intellectual property rights over this Contribution as defined by applicable law.*

## 6.3 OVER THE RELATED MODULES

*The Licensee who develops a Related Module is the owner of the intellectual property rights over this Related Module as defined by applicable law and is free to choose the type of agreement that shall govern its distribution under the conditions defined in Article 5.3.3.*

## 6.4 NOTICE OF RIGHTS

*The Licensee expressly undertakes:*

*not to remove, or modify, in any manner, the intellectual property notices attached to the Software;*

*to reproduce said notices, in an identical manner, in the copies of the Software modified or not;*

*to ensure that use of the Software, its intellectual property notices and the fact that it is governed by the Agreement is indicated in a text that is easily accessible, specifically from the interface of any Derivative Software.*

*The Licensee undertakes not to directly or indirectly infringe the intellectual property rights of the Holder and/or Contributors on the Software and to take, where applicable, vis-à-vis its staff, any and all measures required to ensure respect of said intellectual property rights of the Holder and/or Contributors.*

## Article 7 - RELATED SERVICES

*7.1 Under no circumstances shall the Agreement oblige the Licensor to provide technical assistance or maintenance services for the Software.*

However, the Licensor is entitled to offer this type of services. The terms and conditions of such technical assistance, and/or such maintenance, shall

be set forth in a separate instrument. Only the Licensor offering said maintenance and/or technical assistance services shall incur liability therefor.

7.2 Similarly, any Licensor is entitled to offer to its licensees, under its sole responsibility, a warranty, that shall only be binding upon itself, for the redistribution of the Software and/or the Modified Software, under terms and conditions that it is free to decide. Said warranty, and the financial terms and conditions of its application, shall be subject of a separate instrument executed between the Licensor and the Licensee.

#### Article 8 - LIABILITY

8.1 Subject to the provisions of Article 8.2, the Licensee shall be entitled to claim compensation for any direct loss it may have suffered from the Software as a result of a fault on the part of the relevant Licensor, subject to providing evidence thereof.

8.2 The Licensor's liability is limited to the commitments made under this Agreement and shall not be incurred as a result of in particular: (i) loss due the Licensee's total or partial failure to fulfill its obligations, (ii) direct or consequential loss that is suffered by the Licensee due to the use or performance of the Software, and (iii) more generally, any consequential loss. In particular the Parties expressly agree that any or all pecuniary or business loss (i.e. loss of data, loss of profits, operating loss, loss of customers or orders, opportunity cost, any disturbance to business activities) or any or all legal proceedings instituted against the Licensee by a third party, shall constitute consequential loss and shall not provide entitlement to any or all compensation from the Licensor.

#### Article 9 - WARRANTY

9.1 The Licensee acknowledges that the scientific and technical state-of-the-art when the Software was distributed did not enable all possible uses to be tested and verified, nor for the presence of possible defects to be detected. In this respect, the Licensee's attention has been drawn to the risks associated with loading, using, modifying and/or developing and reproducing the Software which are reserved for experienced users.

The Licensee shall be responsible for verifying, by any or all means, the suitability of the product for its requirements, its good working order, and for ensuring that it shall not cause damage to either persons or

*properties.*

*9.2 The Licensor hereby represents, in good faith, that it is entitled to grant all the rights over the Software (including in particular the rights set forth in Article 5).*

*9.3 The Licensee acknowledges that the Software is supplied "as is" by the Licensor without any other express or tacit warranty, other than that*  
*provided*

*for in Article 9.2 and, in particular, without any warranty as to its commercial value, its secured, safe, innovative or relevant nature.*

*Specifically, the Licensor does not warrant that the Software is free from any error, that it will operate without interruption, that it will be compatible with the Licensee's own equipment and software configuration, nor that it will meet the Licensee's requirements.*

*9.4 The Licensor does not either expressly or tacitly warrant that the Software does not infringe any third party intellectual property right relating to a patent, software or any other property right. Therefore, the Licensor disclaims any and all liability towards the Licensee arising out of any or all proceedings for infringement that may be instituted in respect of the use, modification and redistribution of the Software. Nevertheless, should such proceedings be instituted against the Licensee, the Licensor shall provide it with technical and legal assistance for its defense. Such technical and legal assistance shall be decided on a case-by-case basis between the relevant Licensor and the Licensee pursuant to a memorandum of understanding. The Licensor disclaims any and all liability as regards the Licensee's use of the name of the Software. No warranty is given as regards the existence of prior rights over the name of the Software or as regards the existence of a trademark.*

#### *Article 10 - TERMINATION*

*10.1 In the event of a breach by the Licensee of its obligations hereunder, the Licensor may automatically terminate this Agreement thirty (30) days after notice has been sent to the Licensee and has remained ineffective.*

*10.2 A Licensee whose Agreement is terminated shall no longer be*  
*authorized*  
*to use, modify or distribute the Software. However, any licenses that it may have granted prior to termination of the Agreement shall remain valid*  
*subject*  
*to their having been granted in compliance with the terms and conditions*  
*hereof.*

*Article 11 - MISCELLANEOUS*

*11.1 EXCUSABLE EVENTS*

*Neither Party shall be liable for any or all delay, or failure to perform the Agreement, that may be attributable to an event of force majeure, an act of God or an outside cause, such as defective functioning or interruptions of the electricity or telecommunications networks, network paralysis following a virus attack, intervention by government authorities, natural disasters, water damage, earthquakes, fire, explosions, strikes and labor unrest, war, etc.*

*11.2 Any failure by either Party, on one or more occasions, to invoke one or more of the provisions hereof, shall under no circumstances be interpreted as being a waiver by the interested Party of its right to invoke said provision(s) subsequently.*

*11.3 The Agreement cancels and replaces any or all previous agreements, whether written or oral, between the Parties and having the same purpose, and constitutes the entirety of the agreement between said Parties concerning said purpose. No supplement or modification to the terms and conditions hereof shall be effective as between the Parties unless it is made in writing and signed by their duly authorized representatives.*

*11.4 In the event that one or more of the provisions hereof were to conflict with a current or future applicable act or legislative text, said act or legislative text shall prevail, and the Parties shall make the necessary amendments so as to comply with said act or legislative text. All other provisions shall remain effective. Similarly, invalidity of a provision of the Agreement, for any reason whatsoever, shall not cause the Agreement as a whole to be invalid.*

*11.5 LANGUAGE*

*The Agreement is drafted in both French and English and both versions are deemed authentic.*

*Article 12 - NEW VERSIONS OF THE AGREEMENT*

12.1 Any person is authorized to duplicate and distribute copies of this Agreement.

12.2 So as to ensure coherence, the wording of this Agreement is protected and may only be modified by the authors of the License, who reserve the right to periodically publish updates or new versions of the Agreement, each with a separate number. These subsequent versions may address new issues encountered by Free Software.

12.3 Any Software distributed under a given version of the Agreement may only be subsequently distributed under the same version of the Agreement or a subsequent version.

#### Article 13 - GOVERNING LAW AND JURISDICTION

13.1 The Agreement is governed by French law. The Parties agree to endeavor to seek an amicable solution to any disagreements or disputes that may arise during the performance of the Agreement.

13.2 Failing an amicable solution within two (2) months as from their occurrence, and unless emergency proceedings are necessary, the disagreements or disputes shall be referred to the Paris Courts having jurisdiction, by the more diligent Party.

1 CeCILL stands for Ce(a) C(nrs) I(nria) L(ogiciel) L(ibre)

Version 1.0 dated 2006-09-05.

---

7-Zip Copyright (C) 1999-2021 Igor Pavlov.

The licenses for files are:

1) 7z.dll:

- The "GNU LGPL" as main license for most of the code
- The "GNU LGPL" with "unRAR license restriction" for some code

- The "BSD 3-clause License" for some code  
2) All other files: the "GNU LGPL".

*Redistributions in binary form must reproduce related license information from this file.*

*Note:*

*You can use 7-Zip on any computer, including a computer in a commercial organization. You don't need to register or pay for 7-Zip.*

#### *GNU LGPL information*

-----

*This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 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*

*Lesser General Public License for more details.*

*You can receive a copy of the GNU Lesser General Public License from <http://www.gnu.org/>*

#### *BSD 3-clause License*

-----

*The "BSD 3-clause License" is used for the code in 7z.dll that implements LZFSE data decompression. That code was derived from the code in the "LZFSE compression library" developed by Apple Inc, that also uses the "BSD 3-clause License":*

----

*Copyright (c) 2015-2016, Apple Inc. All rights reserved.*

*Redistribution and use in source and binary forms, with or without modification,*

*are permitted provided that the following conditions are met:*

- 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.*
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.*
- 3. Neither the name of the copyright holder(s) nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.*

*THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND*

*ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED*

*WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.*

*IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,*

*INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,*

*BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,*

*OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,*

*WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)*

*ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE*

*POSSIBILITY OF SUCH DAMAGE.*

*unRAR license restriction*

*-----*

*The decompression engine for RAR archives was developed using source code of unRAR program.*

*All copyrights to original unRAR code are owned by Alexander Roshal.*

*The license for original unRAR code has the following restriction:*



*The unRAR sources cannot be used to re-create the RAR compression algorithm, which is proprietary. Distribution of modified unRAR sources in separate form or as a part of other software is permitted, provided that it is clearly stated in the documentation and source comments that the code may not be used to develop a RAR (WinRAR) compatible archiver.*

---

*Copyright Notice and License Terms for HDF5 (Hierarchical Data Format 5)  
Software Library and Utilities*

-----

*HDF5 (Hierarchical Data Format 5) Software Library and Utilities  
Copyright 2006 by The HDF Group.*

*NCSA HDF5 (Hierarchical Data Format 5) Software Library and Utilities  
Copyright 1998-2006 by The Board of Trustees of the University of Illinois.*

*All rights reserved.*

*Redistribution and use in source and binary forms, with or without modification, are permitted for any purpose (including commercial purposes) provided that the following conditions are met:*

- 1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.*
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or materials provided with the distribution.*
- 3. Neither the name of The HDF Group, the name of the University, nor the name of any Contributor may be used to endorse or promote products derived from this software without specific prior written permission from The HDF Group, the University, or the Contributor, respectively.*

*DISCLAIMER:  
THIS SOFTWARE IS PROVIDED BY THE HDF GROUP AND THE CONTRIBUTORS  
"AS IS" WITH NO WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED. IN NO*

EVENT SHALL THE HDF GROUP OR THE CONTRIBUTORS BE LIABLE  
FOR ANY DAMAGES

SUFFERED BY THE USERS ARISING OUT OF THE USE OF THIS  
SOFTWARE, EVEN IF  
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You are under no obligation whatsoever to provide any bug fixes, patches,  
or

upgrades to the features, functionality or performance of the source code  
("Enhancements") to anyone; however, if you choose to make your  
Enhancements

available either publicly, or directly to The HDF Group, without imposing a  
separate written license agreement for such Enhancements, then you  
hereby

grant the following license: a non-exclusive, royalty-free perpetual license  
to install, use, modify, prepare derivative works, incorporate into other  
computer software, distribute, and sublicense such enhancements or  
derivative

works thereof, in binary and source code form.

-----  
Limited portions of HDF5 were developed by Lawrence Berkeley National  
Laboratory (LBNL). LBNL's Copyright Notice and Licensing Terms can be  
found here: COPYING\_LBNL\_HDF5 file in this directory or at  
[http://support.hdfgroup.org/ftp/HDF5/releases/COPYING\\_LBNL\\_HDF5](http://support.hdfgroup.org/ftp/HDF5/releases/COPYING_LBNL_HDF5).  
-----

Contributors: National Center for Supercomputing Applications (NCSA)  
at

the University of Illinois, Fortner Software, Unidata Program Center  
(netCDF), The Independent JPEG Group (JPEG), Jean-loup Gailly and  
Mark Adler  
(gzip), and Digital Equipment Corporation (DEC).

-----  
Portions of HDF5 were developed with support from the Lawrence Berkeley  
National Laboratory (LBNL) and the United States Department of Energy  
under Prime Contract No. DE-AC02-05CH11231.  
-----

Portions of HDF5 were developed with support from Lawrence Livermore  
National Laboratory and the United States Department of Energy under  
Prime Contract No. DE-AC52-07NA27344.  
-----

Portions of HDF5 were developed with support from the University of  
California, Lawrence Livermore National Laboratory (UC LLNL).  
The following statement applies to those portions of the product and must  
be retained in any redistribution of source code, binaries, documentation,  
and/or accompanying materials:

*This work was partially produced at the University of California, Lawrence Livermore National Laboratory (UC LLNL) under contract no. W-7405-ENG-48 (Contract 48) between the U.S. Department of Energy (DOE) and The Regents of the University of California (University) for the operation of UC LLNL.*

**DISCLAIMER:**

THIS WORK WAS PREPARED AS AN ACCOUNT OF WORK  
SPONSORED BY AN AGENCY OF  
THE UNITED STATES GOVERNMENT. NEITHER THE UNITED STATES  
GOVERNMENT NOR  
THE UNIVERSITY OF CALIFORNIA NOR ANY OF THEIR EMPLOYEES,  
MAKES ANY  
WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LIABILITY OR  
RESPONSIBILITY  
FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF ANY  
INFORMATION,  
APPARATUS, PRODUCT, OR PROCESS DISCLOSED, OR  
REPRESENTS THAT ITS USE  
WOULD NOT INFRINGE PRIVATELY- OWNED RIGHTS. REFERENCE  
HEREIN TO ANY  
SPECIFIC COMMERCIAL PRODUCTS, PROCESS, OR SERVICE BY  
TRADE NAME,  
TRADEMARK, MANUFACTURER, OR OTHERWISE, DOES NOT  
NECESSARILY CONSTITUTE  
OR IMPLY ITS ENDORSEMENT, RECOMMENDATION, OR FAVORING  
BY THE UNITED  
STATES GOVERNMENT OR THE UNIVERSITY OF CALIFORNIA. THE  
VIEWS AND  
OPINIONS OF AUTHORS EXPRESSED HEREIN DO NOT  
NECESSARILY STATE OR REFLECT  
THOSE OF THE UNITED STATES GOVERNMENT OR THE UNIVERSITY  
OF CALIFORNIA,  
AND SHALL NOT BE USED FOR ADVERTISING OR PRODUCT  
ENDORSEMENT PURPOSES.

-----

---

Qwt License

Version 1.0, January 1, 2003

The Qwt library and included programs are provided under the terms  
of the GNU LESSER GENERAL PUBLIC LICENSE (LGPL) with the following

exceptions:

1. *Widgets that are subclassed from Qwt widgets do not constitute a derivative work.*
2. *Static linking of applications and widgets to the Qwt library does not constitute a derivative work and does not require the author to provide source code for the application or widget, use the shared Qwt libraries, or link their applications or widgets against a user-supplied version of Qwt.*

*If you link the application or widget to a modified version of Qwt, then the changes to Qwt must be provided under the terms of the LGPL in sections 1, 2, and 4.*

3. *You do not have to provide a copy of the Qwt license with programs that are linked to the Qwt library, nor do you have to identify the Qwt license in your program or documentation as required by section 6 of the LGPL.*

*However, programs must still identify their use of Qwt. The following example statement can be included in user documentation to satisfy this requirement:*

*[program/widget] is based in part on the work of the Qwt project (<http://qwt.sf.net>).*

---

**GNU LESSER GENERAL PUBLIC LICENSE**  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 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 Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]*

## *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 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 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.*

*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.*

## **GNU LESSER GENERAL PUBLIC LICENSE**

### **TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

*0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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 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 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 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 with*

*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 Lesser 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 a brief 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 Lesser General Public License as published by the Free Software Foundation; either version 2.1 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 Lesser General Public License for more details.*

*You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 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!*

#### **4 Written Offer 书面邀约**

*This product contains software whose rights holders license it on the terms of the GNU Lesser General Public License(LGPL) and/or other open source software licenses. We will provide you and any third party with the source code of the software licensed under an open source software license if you send us a written request by mail or email to the following addresses:*

*info@ibe.cn*

*detailing the name of the product and the firmware version for which you need the source code and indicating how we can contact you.*

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