

L I C E N S E A G R E E M E N T

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I. Usage of Gira security system Alarm Connect Software License Agreement

Hereafter, the terms of contract between the Gira, Giersiepen GmbH & Co KG, Dahlienstraße 12, 42477 Radevormwald („Licensor“) and you („Licensee“) as a user of a Gira security system Alarm Connect (consisting of the hardware and the associated Firmware) are explained for the usage of the contractual object software.

You are declaring your consent with the terms of this agreement through the acceptance of this agreement and by installing the Gira security system Alarm Connect or the operationalization of Gira security system Alarm Connect.

1 Contractual Object

This agreement is applicable for the software of a Gira security system Alarm Connect provided to the licensee by the licensor. Namely, this comes to include the installation and update tools software as well as the provided written or electronic documentation. This software for Gira security system Alarm Connect (also subsequently referred to as Alarm Connect) will be preinstalled on the units for the licensee.

Important Notice about Open Source Software:

The Alarm Connect Software contains open source software components (hereafter referred to as „OSS“). An overview as to the included OSS in the Alarm Connect software is documented in Part II of this document and the complete license text is included in Part III. This license agreement can be accessed from http://www.legal.gira.com/AlarmConnect_license_en_v1.rtf

The licensee is permitted to use the OSS according to the concerned license agreement of the respective OSS. The license agreement of the respective OSS takes precedence to the specified license in part I with regard to the usage of the OSS.

Provided that the OSS license agreement necessitates the provision of OSS source code, the licensor will submit an offer for the delivery of the corresponding source codes to the licensee and third parties on request within 36 months after conclusion of contract against payment of the shipping costs after invoicing by the Licensor.

2 Rights of Usage of Gira Alarm Connect Software

2.1 The licensor allows the licensee the non-exclusive (not an exclusive), non-transferable and non-sublicense right, without time limitation, to use the Alarm Connect software on the

Alarm Connect central unit and the Alarm Connect keypad pursuant this agreement in the valid version of the documentation (the documentation is in printed form or will be made available as online help or online documentation) for the named reasons and scope of application.

2.2 The licensee is not permitted to use, copy, edit or transfer Alarm Connect software either completely or partially in another manner as described in this contract or documentation. The creation of one (1) copy, which is made for archiving or backing up purposes, is excluded.

2.3 The licensee is not permitted to reverse engineer Alarm Connect software or to transform it in another form. Such techniques include disassembling (conversion of binary coded machine commands of an executable program in a human-readable assembly language) or decompiling (conversion of binary coded machine or assembly commands in source code in the form of high-level language commands) unless such use is exceptionally permitted by reason of the limitations of copyright law.

2.4 The licensee is not permitted to transfer Alarm Connect Software with or without payment without the consent of the licensor. The licensee agrees to use the Alarm Connect Software solely for the purpose of the right of use within this usage license.

The licensee is only permitted to transfer the Alarm Connect software and the license key for the usage of the software to third parties, if (i) the licensee has removed the Alarm Connect software, backup copies, and the required license key from the licensee's system by either deletion or deinstallation, and (ii) before the transfer and use, the third party has committed itself to Gira in the conformity of the terms of use. Before transferring Alarm Connect unit, the licensee will explicitly notify the third party about the terms of use.

The licensee's right to individual use lapses when transferred to third parties.

2.5 The licensee is not permitted to rent out, lease or grant sublicenses Alarm Connect Software, which were granted to the licensee within the framework of this agreement of the granted rights of use.

2.6 The licensee requires the licensor's prior written consent, if the licensee intends to develop and distribute which is derived from Alarm Connect Software.

2.7 The mechanisms of Alarm Connect Software's license management and copy protection are not allowed to be analyzed, published, circumvented, or deactivated.

2.8 All rights not explicitly granted to the licensee in this agreement explicitly remain with the licensor.

3 Changes by the Licensor

The licensor retains the right to expand upon, improve or modify, at any time and without notice, the Alarm Connect Software including documentation. These actions can be alternatively conducted by a third party. This license agreement is applicable pursuant to later versions of the software.

4 Guarantee for Alarm Connect Software

4.1 The Alarm Connect Software and the documentation (either provided in printed form or, as well, as online documentation) will be provided to the licensee as amended. The period of

the guarantee for the Alarm Connect Software is 24 months. Guarantee compliance will be performed through the sending of a replacement. The legal right to withdraw remains unaffected. The restrictions of the guarantee rights do not apply if the licensee is a consumer pursuant § 13 BGB.

The Licensor does not provide any guarantee for the included OSS in the Alarm Connect software. This does not affect the guarantee for the Alarm Connect software as a whole or more specifically the functioning of the OSS within the Alarm Connect software.

4.2 The guarantee does not include errors arising from improper usage or other causes outside the sphere of influence of the licensors.

5 Liability

The licensor is not liable for damages arising from lost profit, loss of files or other financial losses, which occurred within the framework of using Alarm Connect software. This limitation of liability applies for all claims of damages by the licensee regardless of legal basis. Liability is limited in amount to the product's purchase price. This limitation of liability does not apply to damages which have caused by intent or gross negligence on behalf of the licensor, the licensor's agent or other persons who aided in the fulfilling of the contract.

Furthermore, the exclusion of liability does not apply for damages arising from injury to life, limb and health and for assumed guaranties (guarantee liability) by the licensor.

Claims from the licensees remain unaffected from the exclusion of liability, which. Such obligations are significant contractual duties. Their breaching would put the purpose of the contract into danger and, therefore, the contractual partner places its trust in its fulfillment.

6 Data Protection

Through conclusion of these license agreements, you agree to the validity of Gira's data protection notices in its valid version respectively.

Please refer to <http://www.gira.de/impressum/datenschutz.html>

7 Applicable Law und Jurisdiction

This contract is subject to the laws of the Federal Republic of Germany under exclusion of the UN Convention on Contracts for the International Sale of Goods (CISG). This choice of law enables the consumer the application of the law of country of the consumer's habitual residence; under the law, that country may not deviate from the agreement.

The jurisdiction is the competent court of the licensor's location. This does not apply if the licensee is not a merchant, not a legal entity under public law and a special fund under public law, or, insofar, the licensee does not have a general jurisdiction within the Federal Republic of Germany.

8 Collateral Agreements and Changes to the Contract

Collateral agreements und changes to contract require to be in written for validity. This license agreement is issued both in German and English. Thereby, the English version serves only as information. In case of an unclarity or should disputes arise from the contract, the German version is binding the version.

9 No participation in the Consumer arbitration (Verbraucherschlichtung) pursuant VSBG

The licensor does not participate in the consumer arbitration (Verbraucherschlichtung) at a consumer arbitration office (Verbraucherschlichtungsstelle) pursuant consumer arbitration law (Verbraucherstreitbeilegungsgesetz (VSBG)).

- End of Segment I. -

II. List of Open Source Software in Gira security Alarm Connect Software

Software package	SW version	Source	License type
avahi	0.6.31	http://www.avahi.org/download	LGPLv2.1+
boost	1.65.1	http://downloads.sourceforge.net/project/boost/boost/1.65.1	BSL-1.0
busybox	1.23.2	http://www.busybox.net/downloads	GPLv2
bzip2	1.0.6	http://www.bzip.org/1.0.6	bzip2 license
codesynthesisxsd	3.3.0	https://downloads.ise.de	GPLv2 FLOSS
dbus	1.8.20	http://dbus.freedesktop.org/releases/dbus	AFLv2.1 or GPLv2+
dosfstools	3.0.28	https://github.com/dosfstools/dosfstools/releases/download/v3.0.28	GPLv3+
dropbear	2015.6	http://matt.ucc.asn.au/dropbear/releases	MIT, BSD-2c-like, BSD-2c
eeprog	0.7.6	http://www.codesink.org/download	GPLv2+
expat	2.1.0	http://downloads.sourceforge.net/project/expat/expat/2.1.0	MIT
fatfs	all	http://elm-chan.org/fsw/ff/00index_e.html	1-clause BSD
gdb	7.8.2	http://ftp.gnu.org/pub/gnu/gdb	GPLv2+ LGPLv2+ GPLv3+ LGPLv3+
htop	1.0.3	http://hisham.hm/htop/releases/1.0.3	GPLv2
infozip	3.0	ftp://ftp.info-zip.org/pub/infozip/src	Info-ZIP v2007-Mar-4
iostat	2.2	http://www.linuxinsight.com/files	GPLv2
json-spirit	4.06	https://downloads.ise.de	MIT
kmod	2.2.10	https://www.kernel.org/pub/linux/utils/kernel/kmod	LGPLv2.1+
libdaemon	0.14	http://0pointer.de/lennart/projects/libdaemon	LGPLv2.1+
libffi	3.1	ftp://sourceware.org/pub/libffi	MIT
libfuse	2.9.4	http://downloads.sourceforge.net/project/fuse/fuse-2.X/2.9.4	GPLv2 LGPLv2.1

libglib2	2.44.1	http://ftp.gnome.org/pub/gnome/sources/glib/2.44	LGPLv2.1+
libpcap	1.7.4	http://www.tcpdump.org/release	BSD-3c
libupnp	1.6.19	http://downloads.sourceforge.net/project/pupnp/pupnp/libUPnP%201.6.19	BSD-3c
libxmlsec1	1.2.18	http://www.aleksey.com/xmlsec/download	MIT
libxml2	2.9.2	ftp://xmlsoft.org/libxml2	MIT
libxslt	1.1.28	ftp://xmlsoft.org/libxslt	MIT
linux	3.2.20	https://github.com/torvalds/linux/blob/master/COPYING	GPLv2 with Linux-syscall-note
log4cplus	1.1.2	http://downloads.sourceforge.net/project/log4cplus/log4cplus-stable/1.1.2	Apache-2.0
memtester	4.3.0	http://pyropus.ca/software/memtester/old-versions	GPLv2
mtd	1.5.2	ftp://ftp.infradead.org/pub/mtd-utils	GPLv2
ncurses	5.9	http://ftp.gnu.org/pub/gnu/ncurses	MIT with advertising clause
netcat	0.7.1	http://downloads.sourceforge.net/project/netcat/netcat/0.7.1	GPLv2+
openssl	1.0.2p	http://www.openssl.org/source	OpenSSL or SSLeay
pcre	8.37	ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre	BSD-3c
popt	1.16	http://anduin.linuxfromscratch.org/sources/BLFS/svn/p	MIT
screen	4.2.1	http://ftp.gnu.org/pub/gnu/screen	GPLv3+
ser2net	2.10.0	http://downloads.sourceforge.net/project/ser2net/ser2net	GPLv2+
sftpserver	opens	http://ftp.openbsd.org/pub/OpenBSD/OpenSSH/portable	BSD-3c BSD-2c Public Domain
socat	2.0.0-	http://www.dest-unreach.org/socat/download	GPLv2

tcpdump	4.7.4	http://www.tcpdump.org/release	BSD-3c
tree	1.6.0	http://mama.indstate.edu/users/ice/tree/src	GPLv2+
uboot	2010.0	https://github.com/u-boot/u-boot/blob/master/Licenses/README	GPLv2
uboot-tools	2015.0	ftp://ftp.denx.de/pub/u-boot	GPLv2+
util-linux	2.26.2	https://www.kernel.org/pub/linux/utils/util-linux/v2.26	GPLv2+, BSD-4c, libblkid and libmount LGPLv2.1+, libuuid BSD-3c
websocketpp	0.7.0	https://github.com/zaphoyd/websocketpp	BSD
xerces	3.1.2	http://archive.apache.org/dist/xerces/c/3/sources	Apache-2.0
zeromq	4.0.5	http://download.zeromq.org	LGPLv3+ with exceptions
zlib	1.2.8	http://downloads.sourceforge.net/project/libpng/zlib/1.2.8	zlib license

III. Open Source Software Licenses

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avahi: LICENSE file
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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.

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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.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

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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.

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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.

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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.

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

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.

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

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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

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.....
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complete object files to the recipients so that they can relink them
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only

works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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.

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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.)

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pcre: LICENCE file
.....

PCRE LICENCE

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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End

```
.....  
zlib: README file  
.....
```

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.8 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to zlib@gzip.org, or to Gilles Vollant info@winimage.com for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson markn@ieee.org wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.8 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
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 *
 * curve25519-donna: Curve25519 elliptic curve, public key function
 *
 * http://code.google.com/p/curve25519-donna/
 *
 * Adam Langley <agl@imperialviolet.org>
 *
 * Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
 *
 * More information about curve25519 can be found here
 * http://cr.yp.to/ecdh.html
 *
 * djb's sample implementation of curve25519 is written in a special assembly
 * language called qhasm and uses the floating point registers.
 *
 * This is, almost, a clean room reimplementation from the curve25519 paper. It
 * uses many of the tricks described therein. Only the crecip function is taken
 * from the sample implementation.
 */
```

```
.....  
eeprog: eeprog.c file  
.....
```

```
/******  
copyright      : (C) by 2003-2004 Stefano Barbato  
email          : stefano@codesink.org  
  
$Id: eeprog.c,v 1.28 2004/02/29 11:06:41 tat Exp $  
*****/
```

```
/******  
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```

```
.....  
gdb: COPYING file  
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```

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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"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.

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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.

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

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

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```
.....  
ncurses: README file  
.....
```

```
-----  
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-----  
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-----
```

README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: ncurses-d.d, where d.d is the current version number (see the dist.mk file in this directory for that). There should be a number of subdirectories, including `c++', `form', `man', `menu', `misc', `ncurses', `panel', `progs', `test', `tack' and `Ada95'. (The `tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

libncurses.a	(normal)
libncurses.so	(shared)
libncurses_g.a	(debug and trace code enabled)
libncurses_p.a	(profiling enabled)
libpanel.a	(normal)
libpanel.so	(shared)
libpanel_g.a	(debug and trace code enabled)
libmenu.a	(normal)
libmenu.so	(shared)
libmenu_g.a	(debug enabled)
libform.a	(normal)
libform.so	(shared)
libform_g.a	(debug enabled)

If you configure using the `--enable-widc` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef`'s in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and forms libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the ``ncurses'`, ``panel'`, ``menu'`, and ``form'` directories respectively.

In the ``c++'` directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `'make install.libs'` rule as `libncurses++`.

In the ``Ada95'` directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level ``make'` if `configure` detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable `TERM` (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called `'terminfo'` format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary terminfo blocks, but prefers the second form.

In the `'misc'` directory, there is a text file `terminfo.src`, in editable terminfo format, which can be used to generate the terminfo binaries (that's what `install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the `termcap` file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

<code>tic</code>	-- terminfo source to binary compiler
<code>infocmp</code>	-- terminfo binary to source decompiler/comparator
<code>clear</code>	-- emits clear-screen for current terminal
<code>tput</code>	-- shell-script access to terminal capabilities.
<code>toe</code>	-- table of entries utility
<code>tset</code>	-- terminal-initialization utility

The first two (`tic` and `infocmp`) are used for manipulating terminfo descriptions; the next two (`clear` and `tput`) are for use in shell scripts. The last (`tset`) is provided for 4.4BSD compatibility. The source code for all of these lives in the `'progs'` directory.

Detailed documentation for all libraries and utilities can be found in the `'man'` and `'doc'` directories. An HTML introduction to ncurses, panels, and menus programming lives in the `'doc/html'` directory. Manpages in HTML format are under `'doc/html/man'`.

The `'test'` directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See `test/README` for descriptions of these programs. Notably, the `'ncurses'` utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:

wrote the original ncurses

Zeyd M. Ben-Halim:

port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):

configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the `wresize`, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)
Beginning with release 4.2, ncurses is distributed under an MIT-style license.

Eric S. Raymond:
the man pages, infocmp(1), tput(1), clear(1), captinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer
The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov
for numerous fixes and improvements to the optimization logic.

David MacKenzie
for first-class bug-chasing and methodical testing.

Ross Ridge
for the code that hacks termcap parameterized strings into terminfo.

Warren Tucker and Gerhard Fuernkranz,
for writing and sending the panel library.

Hellmuth Michaelis,
for many patches and testing the optimization code.

Eric Newton, Ulrich Drepper, and Anatoly Ivasyuk:
the C++ code.

Jonathan Ross,
for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)
for help, criticism, comments, bug-finding, and being willing to deep-six BSD curses for this one when it grew up.

Richard Stallman,
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes, suggesting improvements, and generally whining about ncurses :-)

BUGS:

See the INSTALL file for bug and developer-list addresses.
The Hacker's Guide in the doc directory includes some guidelines on how to report bugs in ways that will get them fixed most quickly.

.....
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.....

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 *
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 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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```

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base64.cpp and base64.h

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René Nyffenegger rene.nyffenegger@adp-gmbh.ch

***** SHA1 Library (sha1/sha1.hpp) *****

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****
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