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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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This package was debianized by its author Thomas Koenig <ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>, and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over by Ansgar Burchardt <ansgar@43-1.org> and Cyril Brulebois <kibi@debian.org>.

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parsetime.pl:

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1.5 authkit 4.5

1.5.1 Available under license :

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=======

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1.6 bash 4.2

1.6.1 Available under license :

From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
 id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
 id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

  I've modified a (modified) version of Bill Rosenblatt's ksh debugger
  to work with bash-2.0. Does ORA have any problem with me distributing
  it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
 id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
 id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
 id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
 id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
 id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
     "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

   Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

      John

On May 9, 1:36pm, Chet Ramey wrote:

} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} "The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey

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Version 3, 29 June 2007

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1.7 beaker 1.6.2

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1.8 binutils 2.17

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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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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.)

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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.

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

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

Library will still fall under Section 6.)

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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<one line to give the library's name and a brief idea of what it does.>
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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!

1.9 binutils 2.21.1

1.9.1 Available under license :

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Version 3, 29 June 2007

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For the developers' and authors' protection, the GPL clearly explains
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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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A "covered work" means either the unmodified Program or a work based on the Program.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an

"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and

protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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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.)

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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.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

1.10 binutils 2.20.1

1.10.1 Available under license :

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Version 3, 29 June 2007

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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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under 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.
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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.
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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.
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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.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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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.

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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 above, provided that you also meet all of these conditions:

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

If such an object file uses only numerical parameters, data

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

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

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

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

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

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

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

d) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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

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1.11 boost 1.51.0

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1.19 e2fsprogs 1.41.12

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1.26 flup 1.0.1

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1.27 flup 1.0.3.dev-20110405

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1.28 gawk 3.1.6

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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.

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1.29 gcc 4.4.4

1.29.1 Available under license :

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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* m4/ax_func_which_gethostbyname_r.m4

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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* m4/ax_func_which_gethostbyname_r.m4

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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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
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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
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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
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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.
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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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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.
^L
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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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"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

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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.

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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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If distribution of object code is made by offering access to copy

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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.)

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

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

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That's all there is to it!

1.35 glib 2.28.8 :Sun Jun 5 2011 Matthias Clasen

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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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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.

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End
/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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```
*/
/*
*  sha.h : Implementation of the Secure Hash Algorithm
*
* Part of the Python Cryptography Toolkit, version 1.0.0
*
* Copyright (C) 1995, A.M. Kuchling
*
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*
*/
```

1.36 glibc 2.7

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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1.37 glibc 2.13

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1.38 glibc 2.12.1

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1.39 glibc 2.11.1

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1.41 grep 2.6.3 :2.el6

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1.48 iputils s20100214

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1.49 jpeg 6b

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OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
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*.1 Unix-style man pages for programs (same info as usage.doc).
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change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
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CompuServe Incorporated."

REFERENCES
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We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file

format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups.

It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
 send usenet/news.answers/jpeg-faq/part1
 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF

Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
*
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```
/*
* Usage:
 ansi2knr input_file [output_file]
* If no output_file is supplied, output goes to stdout.
* There are no error messages.
*
* ansi2knr recognizes function definitions by seeing a non-keyword
* identifier at the left margin, followed by a left parenthesis,
* with a right parenthesis as the last character on the line,
* and with a left brace as the first token on the following line
* (ignoring possible intervening comments).
* It will recognize a multi-line header provided that no intervening
* line ends with a left or right brace or a semicolon.
* These algorithms ignore whitespace and comments, except that
* the function name must be the first thing on the line.
* The following constructs will confuse it:
* - Any other construct that starts at the left margin and
*     follows the above syntax (such as a macro or function call).
* - Some macros that tinker with the syntax of the function header.
*/

/*
* The original and principal author of ansi2knr is L. Peter Deutsch
* <ghost@aladdin.com>.  Other authors are noted in the change history
* that follows (in reverse chronological order):
 lpd 96-01-21 added code to cope with not HAVE_CONFIG_H and with
  compilers that don't understand void, as suggested by
  Tom Lane
 lpd 96-01-15 changed to require that the first non-comment token
```

on the line following a function header be a left brace,
to reduce sensitivity to macros, as suggested by Tom Lane
<tgl@sss.pgh.pa.us>
lpd 95-06-22 removed #ifndefs whose sole purpose was to define
undefined preprocessor symbols as 0; changed all #ifdefs
for configuration symbols to #ifs
lpd 95-04-05 changed copyright notice to make it clear that
including ansi2knr in a program does not bring the entire
program under the GPL
lpd 94-12-18 added conditionals for systems where ctype macros
don't handle 8-bit characters properly, suggested by
Francois Pinard <pinard@iro.umontreal.ca>;
removed --varargs switch (this is now the default)
lpd 94-10-10 removed CONFIG_BROKETS conditional
lpd 94-07-16 added some conditionals to help GNU `configure',
suggested by Francois Pinard <pinard@iro.umontreal.ca>;
properly erase prototype args in function parameters,
contributed by Jim Avera <jima@netcom.com>;
correct error in writeblanks (it shouldn't erase EOLs)
lpd 89-xx-xx original version
*/

1.50 less 436

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Version 3, 29 June 2007

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1.52 libftdi 0.17

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1.53 libpcap 1.3.0 :Friday March 30, 2012

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#
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1.56 libssh2 1.2.6

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1.59 libusb 0.1.12

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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.)

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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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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.

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1.60 libxml++ 2.26.1

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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.

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1.61 libxml2 2.7.8

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# diff format) to <config-patches@gnu.org> and include a ChangeLog
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#
# This script attempts to guess a canonical system name similar to
```

config.sub. If it succeeds, it prints the system name on stdout, and
exits with 0. Otherwise, it exits with 1.
#
You can get the latest version of this script from:
http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD

1.62 libxslt 1.1.26

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1.63 lighttpd 1.4.28

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1.64 linux 3.0.46

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variables, as they might otherwise be expanded by user macros.
There are some unavoidable exceptions within include files to
define necessary library symbols; they are noted "INFRINGES ON
USER NAME SPACE" below. */
~~~~~~
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M68000 Hi-Performance Microprocessor Division
M68060 Software Package
Production Release P1.00 -- October 10, 1994

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/*

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floating point emulator.

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*
**/
*
* Intel Wireless WiMAX Connection 2400m
* USB-specific i2400m driver definitions
~~~~~~

```
*
*
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*  - Initial implementation
*
*
* This driver implements the bus-specific part of the i2400m for
* USB. Check i2400m.h for a generic driver description.
*
* ARCHITECTURE
*
* This driver listens to notifications sent from the notification
* endpoint (in usb-notif.c); when data is ready to read, the code in
* there schedules a read from the device (usb-rx.c) and then passes
* the data to the generic RX code (rx.c).
*
* When the generic driver needs to send data (network or control), it
```

```
* queues up in the TX FIFO (tx.c) and that will notify the driver
* through the i2400m->bus_tx_kick() callback
* (usb-tx.c:i2400mu_bus_tx_kick) which will send the items in the
* FIFO queue.
*
* This driver, as well, implements the USB-specific ops for the generic
* driver to be able to setup/teardown communication with the device
* [i2400m_bus_dev_start() and i2400m_bus_dev_stop()], reseting the
* device [i2400m_bus_reset()] and performing firmware upload
* [i2400m_bus_bm_cmd() and i2400_bus_bm_wait_for_ack()].
*/
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1.66 linux 3.6.1

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1.68 linuxutils 2.25.04.10

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1.82 net-tools 1.60

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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.88 openssh-5.9p1 5.9p1

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*
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*
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1.90 openssl 1.0.0g

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1.91 openssl-fips 2.0.1

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1.92 paramiko 1.7.7.1 :"George" release, 21 may 2011

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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.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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1.101 pyserial 2.6

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1.102 python 2.6.6

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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.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The :mod:'socket' module uses the functions, :func:'getaddrinfo', and :func:'getnameinfo', which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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Select kqueue

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#
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#
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#
# Creation Date:    11/3/97 3:39:04PM
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```

-- Gregory P. Smith <greg@krypto.org>
#
$Id: test_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea $
Original version written by Greg Stein (gstein@lyra.org)
and Bill Tutt (rassilon@lima.mudlib.org)
February 1997.
#
Modifications and improvements for Python 2.0 by Jeremy Hylton and
Mark Hammond
#
Some fixes to try to have correct line number on almost all nodes
(except Module, Discard and Stmt) added by Sylvain Thenault
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# $Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
# limited xinclude support for element trees
#
# history:
# 2003-08-15 fl   created
```

```
# 2003-11-14 fl   fixed default loader
#
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#
# fredrik@pythonware.com
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# --------------------------------------------------------------------
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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
/*
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*/
'$echo "$cfgfile" | sed 's%^.*/%%" - Provide generalized library-building support services.
Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
NOTE: Changes made to this file will be lost: look at ltmain.sh.

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*

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#
Name: CP1140
Unicode version: 3.2
Table version: 1.0
Table format: Format A
Date: 2005-10-25
Authors: Marc-Andre Lemburg <mal@egenix.com>

```
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/* --------------------------------------------------------------------

  unicodedata -- Provides access to the Unicode 5.1 data base.

  Data was extracted from the Unicode 5.1 UnicodeData.txt file.

  Written by Marc-Andre Lemburg (mal@lemburg.com).
  Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)
  Modified by Martin v. Lwis (martin@v.loewis.de)

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  -------------------------------------------------------------------- */
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/* --------------------------------------------------------------------
  ia64_flags.h - Copyright (c) 2000 Hewlett Packard Company

  IA64/unix Foreign Function Interface

  Original author: Hans Boehm, HP Labs
```

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--- */

/* Random objects */

/* ---

The code in this module was based on a download from:
http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html

It was modified in 2002 by Raymond Hettinger as follows:

* the principal computational lines untouched except for tabbing.

* renamed genrand_res53() to random_random() and wrapped
in python calling/return code.

* genrand_int32() and the helper functions, init_genrand()
and init_by_array(), were declared static, wrapped in
Python calling/return code. also, their global data
references were replaced with structure references.

* unused functions from the original were deleted.
new, original C python code was added to implement the
Random() interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp
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1.103 qt-everywhere-opensource 4.8.2

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/* Skeleton implementation for Bison's Yacc-like parsers in C

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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

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9.1.No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Nokia, which shall not be unreasonably withheld.

9.2.Termination

Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to Nokia all copies of Licensed Software that were supplied by Nokia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Nokia a written confirmation that this has occurred.

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Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

9.4.Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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9.6.Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

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Version 3, 29 June 2007

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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".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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You may convey a Combined Work under terms of your choice that,
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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:

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/* Skeleton implementation for Bison's Yacc-like parsers in C

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Agreement version 1.3.1

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12. CONFIDENTIALITY

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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1 Marketing

Nokia may include Licensee's company name and logo in a publicly available list of Nokia customers and in its public communications.

13.2 No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Nokia, which shall not be unreasonably withheld. Nokia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

13.3 Termination

Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party.

Upon termination of the Licenses, Licensee shall return to Nokia all copies of Licensed Software that were supplied by Nokia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Nokia a written confirmation that this has occurred.

13.4 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

13.5 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6 Payment and Taxes

If credit has been extended to Licensee by Nokia, all payments under this Agreement are due within thirty (30) days of the date Nokia mails its invoice to Licensee. If Nokia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Nokia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7 Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

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Notices to Nokia shall be given to:

Nokia Norge AS
Sandakerveien 116
NO-0484 Oslo, Norway
Fax: +47 21 69 48 02

13.9 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10 Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of

law provisions. Any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be shall be finally settled by arbitration in accordance with the Arbitration Rules of the Central Chamber of Commerce of Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

13.11 No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Nokia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software, as applicable, with any other software or hardware not delivered by Nokia under this Agreement.

_____

Appendix 1

1. Parts of the Licensed Software that are permitted for distribution ("Redistributables")

- The Licensed Software's main and plug-in libraries in object code form
- The Licensed Software's configuration tool ("qtconfig")
- The Licensed Software's help tool in object code/executable form ("Qt Assistant")
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
- The Licensed Software's designer tool ("Qt Designer")
- The Licensed Software's IDE tool ("Qt Creator")
- The Licensed Software's QML ("Qt Quick") launcher tool in object code/executable form

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to

- The Licensed Software's source code and header files
- The Licensed Software's documentation
- The Licensed Software's tool for writing makefiles ("qmake")
- The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")
- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi if applicable)
- The Licensed Software's Qt SDK

t All Operating Systems Commercial Developer License Agreement
Agreement version 1.3.1

This Qt All Operating Systems Commercial Developer License Agreement ("Agreement") is a legal agreement between Nokia, Inc. ("Nokia") with its registered office at 102 Corporate Park Drive, White Plains, NY 10604, U.S.A., and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

1. DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.

"Deployment Platforms" shall mean the Embedded Linux, Windows(R) CE and Windows Mobile operating system(s).

"Designated User(s)" shall mean the employee(s) of Licensee acting within the scope of their employment or Licensee's consultant(s) or contractor(s) acting within the scope of their services for Licensee and on behalf of Licensee.

"Initial Term" shall mean the period of time one (1) year from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Nokia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

"License Certificate" shall mean the document accompanying the Licensed Software which specifies the modules which are licensed under the Agreement, Platforms and Designated Users.

"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Nokia to Licensee in conjunction with this Agreement. Licensed Software does not include Third Party Software (as defined in Section 7).

"Modified Software" shall mean modifications made to the Licensed Software by Licensee.

"Party or Parties" shall mean Licensee and/or Nokia.

"Platforms" shall mean the operating system(s) listed in the License Certificate.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1, Section 1 that may be distributed with or as part of Applications in object code form.

"Support" shall mean standard developer support that is provided by Nokia to assist eligible Designated Users in

using the Licensed Software in accordance with its established standard support procedures listed at: http://qt.nokia.com/support-services/files/standardsupport-TermsandConditions.pdf.

"Updates" shall mean a release or version of the Licensed Software containing enhancements, new features, bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for maintenance and support.

2. OWNERSHIP

The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

To the extent Licensee submits bug fixes or error corrections, including information related thereto, Licensee hereby grants to Nokia a sublicensable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up copyright and trade secret license to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute error corrections and bug fixes, including derivative works thereof. All Nokia's and/or its licensors' trademarks, service marks, trade names, logos or other words or symbols are and shall remain the exclusive property of Nokia or its licensors respectively.

3. MODULES

Some of the files in the Licensed Software have been grouped into modules. These files contain specific notices defining the module of which they are a part. The modules licensed to Licensee are specified in the License Certificate accompanying the Licensed Software. The terms of the License Certificate are considered part of the Agreement. In the event of inconsistency or conflict between the language of this Agreement and the License Certificate, the provisions of this Agreement shall govern.

4. VALIDITY OF THE AGREEMENT

By installing, copying, or otherwise using the Licensed Software, Licensee agrees to be bound by the terms of this Agreement. If Licensee does not agree to the terms of this Agreement, Licensee should not install, copy, or otherwise use the Licensed Software. In addition, by installing, copying, or otherwise using any Updates or other components of the Licensed Software that Licensee receives separately as part of the Licensed Software, Licensee agrees to be bound by any additional license terms that accompany such Updates, if any. If Licensee does not agree to the additional license terms that accompany such Updates, Licensee should not install, copy, or otherwise use such Updates.

Upon Licensee's acceptance of the terms and conditions of this Agreement, Nokia grants Licensee the right to use the Licensed Software in the manner provided below.

5. LICENSES

5.1 Using, Modifying and Copying

Nokia grants to Licensee a non-exclusive, non-transferable, perpetual license to use, modify and copy the Licensed Software for Designated Users specified in the License Certificate for the sole purposes of:

(i) designing, developing, and testing Application(s);

(ii) modifying the Licensed Software as limited by section 8 below; and

(iii) compiling the Licensed Software and/or Modified Software source code into object code.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only the Designated Users use the Licensed Software. Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying Nokia, provided that a) the then-current Designated User has not been designated as a replacement during the last six (6) months; and b) there is no more than the specified number of Designated Users at any given time.

5.2 Limited Redistribution

a) Nokia grants Licensee a non-exclusive, royalty-free right to reproduce and distribute the object code form of Redistributables (listed in Appendix 1, Section 1) for execution on the specified Platforms, excluding the Deployment Platforms. Copies of Redistributables may only be distributed with and for the sole purpose of executing Applications permitted under this Agreement that Licensee has created using the Licensed Software. Under no circumstances may any copies of Redistributables be distributed separately. This Agreement does not give Licensee any rights to distribute any of the parts of the Licensed Software listed in Appendix 1, Section 2, neither as a whole nor as parts or snippets of code.

b) Licensee may not distribute, transfer, assign or otherwise dispose of Applications and/or Redistributables, in binary/compiled form, or in any other form, if such action is part of a joint software and hardware distribution, except as provided by a separate runtime distribution license with Nokia or one of its authorized distributors. A joint hardware and software distribution shall be defined as either:

(i) distribution of a hardware device where, in its final end user configuration, the main user interface of the device is provided by Application(s) created by Licensee or others, using a commercial version of a Qt or Qt-based product, and depends on the Licensed Software or an open source version of any Qt or Qt-based software product; or

(ii) distribution of the Licensed Software with a device designed to facilitate the installation of the Licensed Software onto the same device where the main user interface of such device is provided by Application(s) created by Licensee or others, using a commercial version of a Qt or Qt-based product, and depends on the Licensed Software.

c) Licensee's distribution of Licensed Software and/or Modified Software or Applications on Deployment Platforms requires a separate distribution license from Nokia. Notwithstanding the above limitation, Licensee may distribute the Application in binary/compiled form onto devices running Windows CE/Windows Mobile, Symbian or Maemo/MeeGo, provided the core functionality of the device does not depend on either the Licensed Software or the Application.

5.3 Further Requirements

The licenses granted in this Section 5 by Nokia to Licensee are subject to Licensee's compliance with Section 8 of this Agreement.

6. VERIFICATION

Nokia or a certified auditor on Nokia's behalf, may, upon its reasonable request and at its expense, audit Licensee with respect to the use of the Licensed Software. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. Nokia will not remove, copy, or redistribute any electronic material during the course of an audit. If an audit reveals that Licensee is using the Licensed Software in a way that is in material violation of the terms of the Agreement, then Licensee shall pay Nokia's reasonable costs of conducting the audit. In the case of a material violation, Licensee agrees to pay Nokia any amounts owing that are attributable to the unauthorized use. In the alternative, Nokia reserves the right, at Nokia's sole option, to terminate the licenses for the Licensed Software.

7. THIRD PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included along with the Licensed Software delivery as a convenience for development and testing only. Such source code and libraries may be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software where the Third Party Software is used, as may be amended from time to time, do not comprise the Licensed Software. Licensee acknowledges (i) that some part of Third Party Software may require additional licensing of copyright and patents from the owners of such, and (ii) that distribution of any of the Licensed Software referencing any portion of a Third Party Software may require appropriate licensing from such third parties.

8. CONDITIONS FOR CREATING APPLICATIONS

The licenses granted in this Agreement for Licensee to create, modify and distribute Applications is subject to all of the following conditions: (i) all copies of the Applications Licensee creates must bear a valid copyright notice either Licensee's own or the copyright notice that appears on the Licensed Software; (ii) Licensee may not remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software including but not limited to the About Boxes; (iii) Licensee will indemnify and hold Nokia, its Affiliates, contractors, and its suppliers, harmless from and against any claims or liabilities arising out of the use, reproduction or distribution of Applications; (iv) Applications must be developed using a licensed, registered copy of the Licensed Software; (v) Applications must add primary and substantial functionality to the Licensed Software; (vi) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; however Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s); (vii) Licensee may create Modified Software that breaks the source or binary compatibility with the Licensed Software. This includes, but is not limited to, changing the application programming interfaces ("API") by adding, changing or deleting any variable, method, or class signature in the Licensed Software, the inter-process QCop specification, and/or any inter-process protocols, services or standards in the Licensed Software libraries. To the extent that Licensee breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that Nokia's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted; (viii)

Applications may not compete with the Licensed Software; (ix) Licensee may not use Nokia's or any of its suppliers' names, logos, or trademarks to market Applications, except to state that Licensee's Application(s) was developed using the Licensed Software.

NOTE: The Open Source Editions of Nokia's Qt products and the Qt, Qtopia and Qt Extended versions previously licensed by Trolltech (collectively referred to as "Products") are licensed under the terms of the GNU Lesser General Public License version 2.1 ("LGPL") and/or the GNU General Public License versions 2.0 and 3.0 ("GPL") (as applicable) and not under this Agreement. If Licensee, or another third party, has, at any time, developed all (or any portions of) the Application(s) using a version of one of these Products licensed under the LGPL or the GPL, Licensee may not combine such development work with the Licensed Software and must license such Application(s) (or any portions derived there from) under the terms of the GNU Lesser General Public License version 2.1 (Qt only) or GNU General Public License version 2.0 (Qt, Qtopia and Qt Extended) or version 3 (Qt only) copies of which are located at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html, http://www.fsf.org/licensing/licenses/info/GPLv2.html, and http://www.gnu.org/copyleft/gpl.html.

9. LIMITED WARRANTY AND WARRANTY DISCLAIMER

Nokia hereby represents and warrants with respect to the Licensed Software that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement. Except as set forth above, the Licensed Software is licensed to Licensee "as is". To the maximum extent permitted by applicable law, Nokia on behalf of itself and its suppliers, disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, title and non-infringement with regard to the Licensed Software.

10. LIMITATION OF LIABILITY

If, Nokia's warranty disclaimer notwithstanding, Nokia is held to be liable to Licensee whether in contract, tort, or any other legal theory, based on the Licensed Software, Nokia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Nokia's option, either (a) return of the price Licensee paid for the Licensed Software, or (b) repair or replacement of the Licensed Software, provided Licensee returns to Nokia all copies of the Licensed Software as originally delivered to Licensee. Nokia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Nokia, under any circumstances, be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Nokia to Licensee shall not exceed the total amount Licensee has paid to Nokia in connection with this Agreement.

11. SUPPORT AND UPDATES

Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Nokia's then current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following the Initial Term, Nokia shall no longer make the Licensed Software available to Licensee unless Licensee purchases additional Support and Updates according to this Section 11 below.

Licensee may purchase additional Support and Updates following the Initial Term at Nokia's terms and conditions applicable at the time of renewal.

12. CONFIDENTIALITY

Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

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Notices to Nokia shall be given to:

Nokia, Inc.
555 Twin Dolphin Drive, Suite 280
Redwood City, CA 94065 U.S.A.
Fax: +1 650 551 1851

13.9 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10 Governing Law and Legal Venue

This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defense or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 13.10 is intended to, or shall be

deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

13.11 No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Nokia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software, as applicable, with any other software or hardware not delivered by Nokia under this Agreement.

13.11 Government End Users

A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

Appendix 1

1. Parts of the Licensed Software that are permitted for distribution ("Redistributables")

- The Licensed Software's main and plug-in libraries in object code form
- The Licensed Software's configuration tool ("qtconfig")
- The Licensed Software's help tool in object code/executable form ("Qt Assistant")
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
- The Licensed Software's designer tool ("Qt Designer")
- The Licensed Software's IDE tool ("Qt Creator")
- The Licensed Software's QML ("Qt Quick") launcher tool in object code/executable form

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to

- The Licensed Software's source code and header files
- The Licensed Software's documentation
- The Licensed Software's tool for writing makefiles ("qmake")
- The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")

- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi if applicable)
- The Licensed Software's Qt SDK

Qt Embedded Commercial Developer License Agreement
Agreement version 1.5.1

This Qt Embedded Commercial License Agreement ("Agreement") is a legal agreement between Nokia Corporation ("Nokia"), with its registered office at Keilalahdentie 4, 02150 Espoo, Finland and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

1. DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.

"Deployment Platforms" shall mean the operating system(s) listed in the License Certificate onto which Licensee is authorized to deploy Applications.

"Designated User(s)" shall mean the employee(s) of Licensee acting within the scope of their employment or Licensee's consultant(s) or contractor(s) acting within the scope of their services for Licensee and on behalf of Licensee.

"Development Platforms" shall mean the operating system(s) listed in the License Certificate on which Licensee may use, develop and modify the Licensed Software.

"Initial Term" shall mean the period of time one (1) year from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Nokia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

"License Certificate" shall mean the document accompanying the Licensed Software which specifies the modules which are licensed under the Agreement, Development Platforms, Deployment Platforms and Designated Users.

"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Nokia to Licensee in conjunction with this Agreement. Licensed Software does not include Third Party Software (as defined in Section 7).

"Modified Software" shall mean modifications made to the Licensed Software by Licensee.

"Party or Parties" shall mean Licensee and/or Nokia.

"Support" shall mean standard developer support that is provided by Nokia to assist eligible Designated Users in using the Licensed Software in accordance with its established standard support procedures listed at: http:// http://qt.nokia.com/support-services/files/standardsupport-TermsandConditions.pdf.

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Upon Licensee's acceptance of the terms and conditions of this Agreement, Nokia grants Licensee the right to use the Licensed Software in the manner provided below.

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Nokia grants to Licensee a non-exclusive, non-transferable, perpetual license to use, modify and copy the Licensed Software for Designated Users specified in the License Certificate for the sole purposes of:

(i) designing, developing, and testing Application(s);

(ii) modifying the Licensed Software as limited by Section 8 below; and

(iii) compiling the Licensed Software and/or Modified Software source code into object code.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only the Designated Users use the Licensed Software. Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying Nokia, provided that a) the then-current Designated User has not been designated as a replacement during the last six (6) months; and b) there is no more than the specified number of Designated Users at any given time.

5.2 No Distribution and Limited Exception

Licensee may not distribute, transfer, assign or otherwise dispose of the Licensed Software and/or Modified Software, except as provided by a separate distribution agreement with Nokia for the Deployment Platforms that Licensee has licensed from Nokia. Distribution on Platforms, other than Deployment Platforms is strictly prohibited.

Notwithstanding the above limitation, Licensee may distribute Application(s) in binary/compiled form onto devices running Windows CE/Windows Mobile, Symbian or Maemo/MeeGo, provided the core functionality of the device does not depend on the Application(s).

5.3 Further Requirements

The licenses granted in this Section 5 by Nokia to Licensee are subject to Licensee's compliance with Section 8 of this Agreement.

6. VERIFICATION

Nokia or a certified auditor on Nokia's behalf, may, upon its reasonable request and at its expense, audit Licensee with respect to the use of the Licensed Software. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. Nokia will not remove, copy, or redistribute any electronic material during the course of an audit. If an audit reveals that Licensee is using the Licensed Software in a way that is in material violation of the terms of the Agreement, then Licensee shall pay Nokia's reasonable costs of conducting the audit. In the case of a material violation, Licensee agrees to pay Nokia any amounts owing that are attributable to the unauthorized use. In the alternative, Nokia reserves the right, at Nokia's sole option, to terminate the licenses for the Licensed Software.

7. THIRD PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included along with the Licensed Software delivery as a convenience for development and testing only. Such source code and libraries may be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software where the Third Party Software is used, as may be amended from time to time, do not comprise the Licensed Software. Licensee acknowledges (i) that some part of Third Party Software may require additional licensing of copyright and patents from the owners of such, and (ii) that distribution of any of the Licensed Software referencing any portion of a Third Party Software may require appropriate licensing from such third parties.

8. CONDITIONS FOR CREATING APPLICATIONS

The licenses granted in this Agreement for Licensee to create, modify and distribute Applications is subject to all of the following conditions: (i) all copies of the Applications Licensee creates must bear a valid copyright notice either Licensee's own or the copyright notice that appears on the Licensed Software; (ii) Licensee may not remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software including but not limited to the About Boxes; (iii) Licensee will indemnify and hold Nokia, its Affiliates, contractors, and its suppliers, harmless from and against any claims or liabilities arising out of the use, reproduction or distribution of Applications; (iv) Applications must be developed using a licensed, registered copy of the Licensed Software; (v) Applications must add primary and substantial functionality to the Licensed Software; (vi) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; however Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s); (vii) Licensee may create Modified Software that breaks the source or binary compatibility with the Licensed Software. This includes, but is not limited to, changing the application programming interfaces ("API") by adding, changing or deleting any variable, method, or class signature in the Licensed Software, the inter-process QCop specification, and/or any inter-process protocols, services or standards in the Licensed Software libraries. To the extent that Licensee breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that Nokia's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted; (viii) Applications may not compete with the Licensed Software; (ix) Licensee may not use Nokia's or any of its suppliers' names, logos, or trademarks to market Applications, except to state that Licensee's Application was developed using the Licensed Software.

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If, Nokia's warranty disclaimer notwithstanding, Nokia is held to be liable to Licensee whether in contract, tort, or any other legal theory, based on the Licensed Software, Nokia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Nokia's option, either (a) return of the price Licensee paid for the Licensed Software, or (b) repair or replacement of the Licensed Software, provided Licensee returns to Nokia all copies of the Licensed Software as originally delivered to Licensee. Nokia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Nokia, under any circumstances, be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Nokia to Licensee shall not exceed the total amount Licensee has paid to Nokia in connection with this Agreement.

11. SUPPORT AND UPDATES

Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Nokia's then current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following the Initial Term, Nokia shall no longer make the Licensed Software available to Licensee unless Licensee purchases additional Support and Updates according to this Section 11 below.

Licensee may purchase additional Support and Updates following the Initial Term at Nokia's terms and conditions applicable at the time of renewal.

12. CONFIDENTIALITY

Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its

own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

13. GENERAL PROVISIONS

13.1. Marketing

Nokia may include Licensee's company name and logo in a publicly available list of Nokia customers and in its public communications.

13.2. No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Nokia, which shall not be unreasonably withheld. Nokia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

13.3. Termination

Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party.

Upon termination of the Licenses, Licensee shall return to Nokia all copies of Licensed Software that were supplied by Nokia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Nokia a written confirmation that this has occurred.

13.4. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

13.5. Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

13.6. Payment and Taxes

If credit has been extended to Licensee by Nokia, all payments under this Agreement are due within thirty (30) days of the date Nokia mails its invoice to Licensee. If Nokia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Nokia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

13.7. Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

13.8. Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be

in the English language or accompanied by a translation thereof.

Notices to Nokia shall be given to:

Nokia Norge AS
Sandakerveien 116
NO-0484 Oslo, Norway
Fax: +47 21 69 48 02

13.9. Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

13.10. Governing Law and Legal Venue:

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be shall be finally settled by arbitration in accordance with the Arbitration Rules of the Central Chamber of Commerce of Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language

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1.DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these

purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Term" shall mean the period of time thirty (30) days from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Nokia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Nokia to Licensee in conjunction with this Agreement.

"Party or Parties" shall mean Licensee and/or Nokia.

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8. CONFIDENTIALITY

Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third

party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Nokia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

9. GENERAL PROVISIONS

9.1.No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Nokia, which shall not be unreasonably withheld.

9.2.Termination

Nokia may terminate the Agreement at any time immediately upon written notice by Nokia to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to Nokia all copies of Licensed Software that were supplied by Nokia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Nokia a written confirmation that this has occurred.

9.3.Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

9.4.Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Nokia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

9.5.Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software.,

9.6.Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any

disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

9.7.No Implied License

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1.104 readline 6.1

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1.109 rsync 3.0.7

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1.112 setuptools 0.6c9

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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 (see http://www.digicool.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. Digital Creations is a sponsoring member of the PSF.

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1.113 strace 4.5.20

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1.114 syslog-ng 3.3.5 :Fri Apr 6 2012 Gergely Nagy

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FAQ:
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The questions and answers below try to summarize the intentions behind this licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.
/* Skeleton implementation for Bison's Yacc-like parsers in C

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/* As a special exception, you may create a larger work that contains
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This special exception was added by the Free Software Foundation in
version 2.2 of Bison. */

/* C LALR(1) parser skeleton written by Richard Stallman, by
simplifying the original so-called "semantic" parser. */

/* All symbols defined below should begin with yy or YY, to avoid
infringing on user name space. This should be done even for local
variables, as they might otherwise be expanded by user macros.
There are some unavoidable exceptions within include files to
define necessary library symbols; they are noted "INFRINGES ON
USER NAME SPACE" below. */
This is syslog-ng, written and maintained by <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

The original source can always be found at:
http://www.balabit.hu/downloads/files/syslog-ng

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1.115 syslog-ng_modules 3.3.5 :Fri Apr 6 2012 Gergely Nagy

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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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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.

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```
/* Skeleton implementation for Bison's Yacc-like parsers in C

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  parser generator using the skeleton or a modified version thereof
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  version 2.2 of Bison.  */

/* C LALR(1) parser skeleton written by Richard Stallman, by
  simplifying the original so-called "semantic" parser.  */

/* All symbols defined below should begin with yy or YY, to avoid
  infringing on user name space.  This should be done even for local
  variables, as they might otherwise be expanded by user macros.
  There are some unavoidable exceptions within include files to
  define necessary library symbols; they are noted "INFRINGES ON
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This is syslog-ng, written and maintained by  <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

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The of the start-stop-daemon

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*
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1.117 tar 1.23

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support for the IEEE Link Discovery Protocol as per 802.1AB

Original code by Hannes Gredler (hannes@juniper.net)
IEEE and TIA extensions by Carles Kishimoto <carles.kishimoto@gmail.com>
DCBX extensions by Kaladhar Musunuru <kaladharm@sourceforge.net>

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Functions for signature and digest verification.

Original code by Hannes Gredler (hannes@juniper.net)

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Extensively modified by Motonori Shindo (mshindo@mshindo.net) for more
complete PPP support.

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Optimized Link State Protocl (OLSR) as per rfc3626

Original code by Hannes Gredler <hannes@juniper.net>
IPv6 additions by Florian Forster <octo at verplant.org>

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Format and print trivial file transfer protocol packets.

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support for the IEEE "slow protocols" LACP, MARKER as per 802.3ad
OAM as per 802.3ah

Original code by Hannes Gredler (hannes@juniper.net)

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Code by Gert Doering, SpaceNet GmbH, gert@space.net

Reference documentation:
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Hacked version of print-ether.c Larry Lile <lile@stdio.com>

Further tweaked to more closely resemble print-fddi.c
Guy Harris <guy@alum.mit.edu>

##

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support for the The RPKI/Router Protocol Protocol as per draft-ietf-sidr-rpki-rtr-12

Original code by Hannes Gredler (hannes@juniper.net)

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##

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Kevin Steves <ks@hp.se> July 2000
Modified to:
- print version, type string and packet length
- print IP address count if > 1 (-v)
- verify checksum (-v)
- print authentication string (-v)

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##

Decode and print Zephyr packets.

http://web.mit.edu/zephyr/doc/protocol

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

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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,

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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.

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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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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

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That's all there is to it!

1.124 u-boot 2010.6

1.124.1 Available under license :

NOTE! This copyright does *not* cover the so-called "standalone"
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1.130 webob 1.1beta1

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1.133 WSGIproxy 0.2.2

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1.134 xinetd 2.3.14

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1.135 yaffs2 eb12d56

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1.136 zlib 1.2.5

1.136.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.5, April 19th, 2010

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  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
  (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
```

1.137 zope.interface 3.6.1

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