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DB:35:17:D1:F6:73:2A:2D:5A:B9:7C:53:3E:C7:07:79:EE:32:70:A6:2F:B4:AC:42:38:37
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terms,O="Entrust, Inc.",C=US Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
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terms,O="Entrust, Inc.",C=US Not Valid Before: Tue Dec 18 15:25:36 2012 Not Valid After : Fri
Dec 18 15:55:36 2037 Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:0D:64:51:D7:FB:56:F0:B2:AB:1D:3B:8E
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terms,O="Entrust, Inc.",C=US Not Valid Before: Tue Jul 07 17:25:54 2009 Not Valid After : Sat

Dec 07 17:55:54 2030 Fingerprint (SHA-256):

43:DF:57:74:B0:3E:7F:EF:5F:E4:0D:93:1A:7B:ED:F1:BB:2E:6B:42:73:8C:4E:6D:38:41

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2026 Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4 Fingerprint (SHA1): B3:1E:B1:B7:40:E3:6C

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2036 Fingerprint (MD5): F8:BE:C4:63:22:C9:A8:46:74:8B:B8:1D:1E:4A:2B:F6 Fingerprint (SHA1): 61:EF:43:D7:7F:CA:

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2036 Fingerprint (MD5): B1:47:BC:18:57:D1:18:A0:78:2D:EC:71:E8:2A:95:73 Fingerprint (SHA1): 20:42:85:DC:F7:EB:

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14:15:12 2029 Fingerprint (MD5): EE:29:31:BC:32:7E:9A:E6:E8:B5:F7:51:B4:34:71:90 Fingerprint (SHA1): 50:30:06:09:1D:97

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1.10 crow 1.0+5

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2.5 GPL-2.0+ (5)

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Beware that some of this code is subtly aware of the way operator precedence is
structured in regular expressions. Serious changes in regular-expression syntax might
require a total rethink.

2.8 Software License Agreement (8)

SOFTWARE FREEDOM CONSERVANCY

FISCAL SPONSORSHIP AGREEMENT

This Agreement is made by and between The Software Freedom Conservancy
("Conservancy") and Beman G. Dawes (the "Representative") on behalf of the project
known as Boost (the "Project"). The Conservancy is a New York nonprofit public benefit
corporation located in New York, New York, which has received recognition of
exemption from federal income tax under Section 501(c)(3) of the Internal Revenue Code
(IRC) and classification as a public charity under IRC Sections 509(a)(1) and
170(b)(1)(A)(vi).

WHEREAS:

A. The purpose of the Project is to produce and distribute software that can be freely
copied, modified and redistributed by the general public ("Free Software").

B. The Conservancy desires to act as the fiscal sponsor of the Project beginning on
the

Effective Date (as defined below) to assist the Project in accomplishing its purpose,

which the Conservancy has determined will further the Conservancy's charitable goals. The Project desires to manage itself under the sponsorship of the Conservancy. C. The Conservancy's Board of Directors has approved the establishment of a fund to receive donations of cash and other property earmarked for support of the Project and to

make disbursements in furtherance of the Project's mission (the "Project Fund"). Currently, the principal office of the Project is located at:

Beman G Dawes

PO Box 400

Onancock, VA 23417.

NOW, THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:

1. Term of Agreement. As of the Effective Date, the Project joins the Conservancy, which relationship will continue unless and until terminated as set forth below.
2. Project Management and Activities.
 - a. The Project Will Be Free Software. The Conservancy and the Project agree that any software distributed by the Project will be distributed solely as Free Software.
 - b. The Committee Will Manage the Project. Authority to manage the technical and

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artistic direction of the Project and the program activities of the Project is delegated

to the Committee (as defined in Paragraph 4 herein), subject at all times to the direction and control of the Conservancy's Board of Directors. The Conservancy will only intervene in the program activities to the extent the Project is not in compliance with Paragraph 2(a) or Paragraph 5 of this Agreement.

c. Ultimate Responsibility of Project. Subject to Section 2(b) of this Agreement, all community programs, public information work, fundraising events, processing and acknowledgment of cash and non-cash revenue items, accounts payable and receivable, negotiation of leases and contracts, disbursement of Project funds (including grants), and other activities planned by the Project shall be the ultimate responsibility of the Conservancy and shall be conducted in the name of the Conservancy, beginning on the Effective Date.

d. Project Not An Agent Of Conservancy. The Project does not and shall not act as an agent for the Conservancy unless specifically authorized in writing by the Conservancy to do so or as otherwise as specified in this agreement.

3. No Fees. The Conservancy will collect no fees from the Project.

4. Project Fund/Variance Power. Beginning on the Effective Date, the Conservancy shall place all gifts, grants, contributions and other revenues received by the Conservancy and identified with the Project into a Project Fund to be used for the sole

benefit of the Project's mission as that mission may be defined by the Committee from time to time with the approval of the Conservancy. The Conservancy retains the unilateral right to spend such funds so as to accomplish the purposes of the Project as

nearly as possible within the Conservancy's sole judgment, subject to any donor-imposed restrictions, as to purpose, on the charitable use of such assets. The Conservancy expects to make such expenditures at the direction of the Project in the ordinary course of the Project's operations. The parties agree that all money, and the fair market value of all property, deposited in the Project Fund be reported as the income of the Conservancy, for both tax purposes and for purposes of the Conservancy's financial statements. It is the intent of the parties that this Agreement

be interpreted to provide the Conservancy with variance powers necessary to enable the Conservancy to treat the Project Fund as the Conservancy's asset in accordance with Financial Accounting Statement No. 136 issued by the Financial Accounting Standards Board, while this Agreement is in effect.

5. Project Fund Management / Performance of Charitable Purposes. All of the assets received by the Conservancy under the terms of this Agreement shall be devoted to the purposes of the Project, within the tax-exempt purposes of the Conservancy.

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The Project agrees not to use its funds or operate in any way which would jeopardize the tax-exempt status of the Conservancy. No item of revenue shall be earmarked for use in any attempt to influence legislation within the meaning of IRC Section 501(c)(3) and no agreement, oral or written, to that effect shall be made between the Conservancy and any revenue source. The Conservancy shall not use any portion of the assets to participate or intervene in any political campaign on behalf or in

opposition to any candidate for public office, to induce or encourage violations of law

or public policy, to cause any private inurement or improper private benefit to occur, nor to take any other action inconsistent with IRC Section 501(c)(3).

6. Representation of the Project in the Conservancy. The Project will be managed by a Committee of moderators (the "Committee"), The Committee will elect a single individual to communicate with the Conservancy (the "Representative") and shall notify the Conservancy promptly following the election of a new Representative. The Representative will have the authority to instruct the Conservancy on the Project's behalf on all matters.

7. Termination. The Committee or the Conservancy may terminate this Agreement at any time subject to the following understandings:

a. Notice and Successor Search. Either the Conservancy or the Committee may terminate this Agreement on 60 days' written notice to the other party, so long as a Successor can be found that meets the following requirements:

i. the Successor is another nonprofit corporation which is tax-exempt under IRC Section 501(c)(3),

ii. the Successor is not classified as a private foundation under Section 509(a),

iii. the Successor is willing and able to sponsor the Project, and

iv. the Successor is approved in writing by both parties by the end of the 60-day period, such approval not to be unreasonably withheld.

b. Additional Search Periods. If the parties cannot agree on a Successor to sponsor the Project, the Committee shall have an additional 60 days to find a Successor willing and able to sponsor the Project. Upon written agreement of the parties, the Committee shall have further additional periods in which to find a Successor. Such periods will be of a duration agreed to by the parties.

c. Transfer to a Successor. If a Successor is found, the balance of assets in the Project Fund, together with any other assets held or liabilities incurred by the Conservancy in connection with the Project, shall be transferred to the Successor by the end of the notice period or any extension thereof, subject to the approval of any third parties that may be required. If the Project has formed a new organization

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qualified as a Successor as set forth in this Section, such organization shall be eligible to receive all such assets and liabilities so long as such organization has received a determination letter from the Internal Revenue Service, indicating that such qualifications have been met, no later than the end of the notice period or any extension thereof.

d. Termination Without a Successor. If no Successor is found, the Conservancy may dispose of the Project assets and liabilities in any manner consistent with applicable tax and charitable trust laws.

8. Miscellaneous. Each provision of this Agreement shall be separately enforceable, and

the invalidity of one provision shall not affect the validity or enforceability of any other provision. This Agreement shall be interpreted and construed in accordance with the laws of the State of New York. This Agreement constitutes the only agreement, and supersedes all prior agreements and understandings, both written and oral, among the parties with respect to the subject matter hereof. This Agreement may not be amended or modified, except in writing and signed by all parties to this Agreement.

9. Counterparts / Facsimile. This Agreement may be executed in two or more counterparts, each of which shall constitute an original, but all of which, when together, shall constitute but one and the same instrument, and shall become effective when one or more counterparts have been signed by each party hereto and delivered to the other party. In lieu of the original, a facsimile transmission or copy of the original

shall be as effective and enforceable as the original.

IN WITNESS WHEREOF, the parties have executed this Fiscal Sponsorship Agreement effective on the ____ day of _____, ____ (the "Effective Date").

By: _____ Dated: _____

Beman G. Dawes

By: _____ Dated: _____

Software Freedom Conservancy

2.9 GPL-2.0+-with-bison-exception (9)

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Version 2, June 1991

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encrypt V1.1 Fri Oct 18 04:28:03 NZDT 2002
File de/encryption, using libtomcrypt
Written by Daniel Richards <kyhwana@world-net.co.nz>
Help from Tom St Denis with various bits
This code is public domain, no rights reserved.
Encrypts by default, -d flag enables decryption

2.79 Public-domain (79)

based on <https://github.com/brainhub/SHA3IUF> (public domain)

2.80 Public-domain (80)

Written by Daniel Richards <kyhwana@world-net.co.nz> 6/7/2002
hash.c: This app uses libtomcrypt to hash either stdin or a file
This file is Public Domain. No rights are reserved.
Compile with 'gcc hashsum.c -o hashsum -ltomcrypt'
This example isn't really big enough to warrent splitting into
more functions ;)

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To commemorate the 1996 RSA Data Security Conference, the following
code is released into the public domain by its author. Prost!

2.82 Public-domain (82)

The implementation is based on:
chacha-ref.c version 20080118
Public domain from D. J. Bernstein

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The implementation is based on:
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<https://github.com/floodyberry/poly1305-donna>

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Modified TweetNaCl version 20140427, a self-contained public-domain C library.
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AES implementation by Tom St Denis

Derived from the Public Domain source code by

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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@file khazad.c

Khazad implementation derived from public domain source

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CRC-32 checksum algorithm

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Adapted for libtomcrypt by Steffen Jaeckel

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@file anubis.c

Anubis implementation derived from public domain source

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Adler-32 checksum algorithm

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2.238 LGPL-2.1 WITH Linux-syscall-note (238)

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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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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Linux Syscall Note

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Linus Torvalds

2.239 LGPL-2.0+ WITH Linux-syscall-note (239)

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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.

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

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

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

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length),

then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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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.

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined 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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2.468 OFL-1.1 (468)

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Version 1.1 - 26 February 2007

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Linux-syscall-note

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2.470 GPL-1.0-or-later WITH Linux-syscall-note (470)

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```
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```
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Version 1.1 - 26 February 2007

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