GNU GENERAL PUBLIC LICENSE

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Preamble前言

The GNU General Public License is a free, copyleft license for software and other kinds of works.

GNU通用公共许可证是软件和其他种类作品的自由，Copyleft许可证。

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

对于大多数软件和其他实用的工程许可证旨在剥夺你的自由共享和修改作品。相比之下，GNU通用公共许可证力图保证你的自由共享和修改程序的所有版本 - 以确保它仍然是对所有用户的自由软件。我们，自由软件基金会，用于我们的大多数软件的GNU通用公共许可证;它也适用于由其作者以这种方式发布的任何其他工作。你可以把它应用到你的程序中。

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

当我们谈论自由软件时，我们指的是自由，而不是价格。我们的通用公共许可证旨在确保您可以自由（如果你愿意，并负责为他们）来分发自由软件副本，您收到的源代码，也可以得到它，如果你想要的话，你可以改变软件或将它的一部分用于新的自由软件，并且确保你知道你能做这些事情。

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

为了保护您的权利，我们需要防止他人否认您的权利，或者要求你放弃这些权利。因此，你有一定的责任，如果您发布软件的副本，或者如果你修改它：责任，尊重他人的自由。

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

例如，如果你发布这样一个程序的副本，无论是自由的还是收费的，必须传递给接收者您收到同样的自由。你必须确保他们也能收到或得到源代码。你必须向他们展示这些条款，让他们知道自己的权利。

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

使用的GNU GPL保护您的权利两步开发商：（1）声明软件的版权;（2）给你提供许可证给你复制，发布和/或修改的法律许可。

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

对于开发者和作者的保护，GPL清楚地说明，有这个自由软件没有担保。对于这两种用户和作者的缘故，GPL要求修改版本被标记为已更改，这样，他们的问题将不会被错误地归因于以前版本的作者。

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.

某些设备被设计为拒绝用户访问安装或运行它们内部的软件的修改版本，虽然制造商可以这样做。这是保护用户自由修改软件的目的是根本不相容的。这种虐待的系统格局的产品，为个人使用面积，而这恰恰是那里最不能接受的发生。因此，我们设计了这个版本的GPL，禁止这种做法对于那些产品。如果在其他领域大量出现这样的问题，我们随时准备扩展这项规定在GPL的未来版本中这些域，因为需要保护用户的自由。

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

最后，每个程序由软件专利的威胁。美国不应该允许专利权限制的通用计算机的开发和使用软件，但那些做的，我们希望避免的特殊危险应用于自由软件的专利权可以使它有效专利。为了防止这种情况，GPL保证了专利不能用来渲染程序不自由。

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

精确的条款和条件复制，发布和修改。

TERMS AND CONDITIONS条款和条件

0. Definitions.前言

"This License" refers to version 3 of the GNU General Public License.

“本授权”指GNU通用公共许可证的版本3。

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“版权”一词同样指适用于其他类型的作品，如半导体口罩保护版权的法律。

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

“计划”是指根据本许可授权的版权保护的作品。被授权人称为“您”。“被授权人”和“接受者”可以是个人或组织。

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

要“修改”作品是指从复制或改编作品的全部或部分需要版权许可，比的精确拷贝制作等时尚。该成果被称为“基于”先前工作的早期作品或作品的“修改版”。

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

“覆盖”指未经修改的程序或基于程序的作品。

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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.

“传播”作品是指用它做任何事情，未经允许，将直接或侵权根据适用著作权法的附属责任让你，除了执行它的计算机上或修改私有副本。传播包括复制，分发（无论修改与否），从而提供给公众，并在某些国家的其他行为。

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.

交互式用户界面显示“适当的法律通告”，以它包括一个方便而显着显着的特点：（1）显示相应的版权声明，以及（2）告诉用户，有对工作不保证（除非程度所提供担保的范围内），受权人可以在工作本授权下，如何看到这一许可证的副本。如果接口呈现用户命令或选择，诸如菜单的列表，列表中的一个突出的项目符合此标准。

1. Source Code.源代码

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.

“源代码”的工作手段进行修改它的工作的首选形式。“目标代码”指程序的任何非源代码形式。

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.

A“标准接口”是指一个接口，或者是由一个公认的标准体限定的官方标准，或者，在被广泛地在该语言的开发中使用的特定的编程语言，一个特定的接口的情况下。

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.

可执行程序的“系统库”什么，比工作作为一个整体等，即（一）被包括在包装的主要组成部分的正常形态，但不是主要部件的一部分，和（b）只是为了能够使用与主要部件的工作，或者为了实现一个标准接口它的实现可用于以源代码形式公开。A“主要组分”，在这种情况下，是指主要的关键部件（内核，窗口系统等）的特定操作系统（如有的话），其上的可执行工作运行时，或用于生产工作的编译器，或对象代码解释器用于运行它。

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 linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

“对应的源代码”为目标代码形式作品是指产生，安装和（对于一个可执行的著作）运行目标代码和修改工作，包括脚本来控制这些活动所需要的所有的源代码。然而，这不包括工作的系统库，或通用的工具或使用未经修改的执行这些活动，但通常提供自由节目是不是工作的一部分。例如，对应的源代码包括与用于工作的源文件相关联的接口的定义，和共享库的源代码和该工作是专为需要动态链接的子程序，例如通过那些子程序和之间的紧密的数据通信或控制流工作的其他部分。

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

相应的源不需要包含任何用户可以从对应的源代码的其他部分自动再生。

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

在源代码形式的作品相应的源代码是同样的工作。

2. Basic Permissions. 基本权限

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

本授权下授予的所有权利授予版权的节目单上的术语，并且是不可撤销的规定的条件得到满足。本授权明确的确认您无限的权限运行未经修改的程序。从运行一个覆盖输出由该许可证仅在输出，因为它的内容，构成一个覆盖。本授权承认您正当使用或其他同等的权利，受版权法规定。

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

您可以制作，运行，只要您的授权仍然有效传播，你不达意覆盖工程，没有条件。你可以传达覆盖工程给他人让他们进行修改专门为你，或者向您提供运行这些工程设施的唯一目的，前提是您遵守本协议的条款传达了你不控制所有材料版权。那些从而使或运行涉及作品必须在代表您这样做专，在你的指导和控制，就禁止他们在做他们与你的关系以外的版权材料的任何副本条款。

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

在其他情况下传播仅在下述条件下是允许的。再许可是不允许的;条款10不是必须的。

3. Protecting Users' Legal Rights From Anti-Circumvention Law.法律声明

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

根据1996年12月20日通过的WIPO版权条约第11条或禁止或限制规避这些措施的类似法律履行义务的任何适用法律，任何受保护的工作不应被视为有效技术措施的一部分。

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

当您传送受保护的作品时，您放弃任何法律权力，禁止规避技术措施，只要这些规避行为是通过根据本许可证行使有关所涵盖作品的权利而实现的，您不承担任何意图限制操作或修改 工作作为一种手段，对工作的用户，执行您或第三方的合法权利，禁止规避技术措施。

4. Conveying Verbatim Copies. 传播一字不差的副本

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

您可以在任何媒体中传送本计划的源代码的完整副本，前提是您必须在每个副本上明确和适当地发布适当的版权声明; 保留所有通知，说明本许可证和根据第7节添加的任何非宽容性条款适用于该代码; 保留所有通知缺乏任何保证; 并向所有接收者提供此许可证的副本以及计划。

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

您可以对您传达的每个副本收取任何价格或不收取费用，您可以提供支持或保护保护费用。

5. Conveying Modified Source Versions.传播修改版的源代码

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:

您可以根据第4节的条款以源代码的形式传达基于程序的工作或者从程序中生成的修改，但前提是您还满足以下所有条件：

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

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）工作必须载有突出的通知，说明您修改它，并给出相关日期。

     b）工作必须载有突出的通知，说明根据本许可证和根据第7条添加的任何条件释放。此要求修改了第4节中的“保持完整的所有通知”的要求。

     c）您必须将本许可证下的整个工作作为一个整体授予任何拥有副本的人。 因此，本许可证将连同任何适用的第7条附加条款一起适用于整个工作及其所有部分，无论其如何包装。 本许可证不允许以任何其他方式许可该作品，但如果您单独收到该许可证，则不会使该许可权无效。

     d）如果工作具有交互式用户界面，则每个人都必须显示适当的法律声明; 但是，如果程序具有不显示适当法律声明的交互式界面，您的工作不需要这样做。

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.

与其他独立和独立作品的汇编，这些作品不是其所涵盖作品的性质扩展，并且不与其组合以形成更大的程序，在存储或分发的卷中或上 媒体，如果汇编及其所产生的版权不用于限制编辑用户的访问或法律权利超出个人作品许可的范围，则被称为“聚合”。 将所涵盖的工作纳入总计不会导致本许可证适用于聚合的其他部分。

6. Conveying Non-Source Forms.传递非来源表格。

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:

您可以根据第4节和第5节的条款，以目标代码形式传达涵盖的作品，但前提是您还以本许可证的条款通过以下方式之一传达机器可读的对应来源：

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.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

a）在物理产品（包括物理分发介质）中或在实体产品（包括物理分发介质）中传送目标代码，伴随固定在通常用于软件交换的持久物理介质上的通信源。

    b）在物理产品（包括物理分发介质）中传送目标代码，或在物理产品（包括物理分发介质）中实施，并附有书面报价，有效期为至少三年，并且只要您提供备件或客户支持产品模型，授予拥有目标代码的任何人（1）在由本许可证涵盖的产品中的所有软件的对应源的副本，在通常用于软件交换的持久物理介质上，价格不为超过您实际执行源传输的合理成本，或（2）自由从网络服务器复制对应源。

    c）将目标代码的单个副本与书面报价的副本一起传递，以提供对应来源。此替代方案仅允许偶尔和非商业，并且仅当您根据子节6b收到带有此类要约的对象代码。

    d）通过从指定地点（自由或收费）提供访问来传递目标代码，并以同样的方式通过同一地点提供等同的访问通信来源，无需支付额外费用。您不需要要求接收者复制对应源以及对象代码。如果要复制对象代码的位置是网络服务器，则对应源可能位于支持等效复制设施的其他服务器（由您或第三方操作）上，前提是您必须在目标代码旁边保留清楚的路线，找到对应的来源。无论什么服务器承载对应源，您仍然有义务确保它可用于满足这些要求所需的时间。

    e）使用对等传输传递目标代码，前提是您通知其他同行根据第6d款向公众自由提供目标代码和工作的对应来源。

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

目标代码的可分离部分（其源代码作为系统库从对应源中排除）不需要包括在传送目标代码工作中。

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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如果程序执行终端交互，当它以交互模式启动时，使其输出如下的短暂通知：

{project} Copyright (C) {year} {fullname} This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

假设命令`show w'和`show c'应该显示通用公共许可证的适当部分。 当然，你的程序的命令可能不同; 对于GUI界面，您将使用“关于框”。

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