



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

TERMS OF USE

AMD AI & HPC Research Cluster

These Terms of Use (the "Agreement") set forth the sole and exclusive terms and conditions that govern access to and use of the hardware, software, documentation and materials that Advanced Micro Devices, Inc. ("AMD") makes available on the AMD AI & HPC Research Cluster (collectively referred to herein as the "AMD AI & HPC Research Cluster").

IMPORTANT - READ CAREFULLY: DO NOT ACCESS OR USE THE AMD AI & HPC RESEARCH CLOUD UNTIL YOU HAVE CAREFULLY READ AND AGREED TO THE FOLLOWING TERMS AND CONDITIONS. This is a legal agreement between AMD and you (on behalf of yourself if you are an individual, or on behalf of your employer or other entity you are representing), and any other users who are authorized by your employer or entity to use the AMD AI & HPC Research Cluster on behalf of your employer or entity (individually and collectively, "You"). If You are entering into this Agreement as an employee or other representative of a corporation, partnership, university or other legal entity, then You must be authorized to sign for and bind that entity in order to accept the terms of this Agreement. In such a case, any references to "You" in this Agreement refer to the entity You represent and its authorized users.

BY CLICKING ON THE "I AGREE" BUTTON OR ACCESSING THE AMD AI & HPC RESEARCH CLOUD, YOU ARE ACCEPTING ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. YOU WILL NOT BE GIVEN ACCESS TO THE AMD AI & HPC RESEARCH CLOUD UNLESS YOU ACCEPT THE TERMS OF THE AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, DO NOT ACCESS OR USE THE AMD AI & HPC RESEARCH CLOUD.

1. Login Security.

Access to the AMD AI & HPC Research Cluster will require use of passwords, authentication keys or other security credentials ("Login Credentials"). You must store Login Credentials in a safe and secure manner, keep them strictly confidential, and not share them with any unauthorized person or third party. If You experience or suspect any issues or unauthorized use with the AMD AI & HPC Research Cluster or if Your Login Credentials have been exposed to nonpermitted users at any time, You must immediately notify AMD.

2. Customer Content.

You are solely responsible for all data, software and other content You upload to or generate using the AMD AI & HPC Research Cluster ("Customer Content"). You represent and warrant that You have obtained all rights and interests necessary to copy, store, transmit, display, modify, access or otherwise use any Customer Content in connection with the AMD AI & HPC Research Cluster, and You hereby grant such rights to AMD and AMD's subcontractors involved with supporting the AMD AI & HPC Research Cluster to the extent necessary for AMD to make the AMD AI & HPC Research Cluster available to You under the Agreement. AMD does not make backup copies of Customer Content. Your use of the AMD AI & HPC Research Cluster and all Customer Content must at all times comply with AMD privacy policies and all applicable local, state, federal and international laws and regulations, including those relating to data privacy, international transmission of data and import or export of technical or personal data.

3. Restrictions.

In addition to any other restrictions and limitations stated in this Agreement, You may not:

- a) use the AMD AI & HPC Research Cluster for any purpose other than Your own non-commercial research performed solely for academic or educational research purposes that was the subject of Your access request as approved by AMD;
- b) rent, lease, copy, provide access to or sublicense the AMD AI & HPC Research Cluster to a third party or use The AMD AI & HPC to provide a service to a third-party;
- c) modify the AMD AI & HPC Research Cluster or any related documentation or create any derivative product from the foregoing;



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

- d) decompile, reverse engineer, disassemble or otherwise reduce any software made available to You by AMD on the AMD AI & HPC Research Cluster to a human-perceivable form (except as expressly permitted by applicable law and only upon advance notice to AMD);
- e) alter, obscure or remove any copyright, trademark or patent notice(s) contained in or on materials generated by the AMD AI & HPC Research Cluster;
- f) use the AMD AI & HPC Research Cluster in a manner that violates applicable U.S. export laws, including but not limited to the U.S. Export Administration Regulations ("EAR") (15 C.F.R Sections 730-774), including but not limited to:
 - i. allowing a permanent resident of EAR Country Groups E:1 (Iran, North Korea, Syria) or E:2 (Cuba) to access or use the AMD AI & HPC Research Cluster;
 - ii. using the AMD AI & HPC Research Cluster for the design or development of chemical or biological weapons, missile capable systems, nuclear computational platforms/systems, unmanned aerial vehicles, military platforms/systems, or mass surveillance platforms/systems; and
 - iii. allowing any entity or individual listed on any U.S. restricted end-user list or identified on any applicable government end-user list to access or use the AMD AI & HPC Research Cluster;
- g) use the AMD AI & HPC Research Cluster to: (i) develop inventions directly derived from the AMD AI & HPC Research Cluster or the AMD hardware and software made available to You via the AMD AI & HPC Research Cluster to seek patent protection; (ii) assist in the analysis of Your patents or patent applications; or (iii) modify Your existing patents;
- h) intentionally install, distribute or use malware, viruses, Trojan horses, spyware, worms, or any malicious or harmful code on the AMD AI & HPC Research Cluster;
- i) circumvent or expand any of the access permissions established by AMD for Your AMD AI & HPC Research Cluster account;
- j) use the AMD AI & HPC Research Cluster to engage in, facilitate, promote, or permit any illegal activities;
- k) use the AMD AI & HPC Research Cluster to engage in digital currency mining;
- l) publicly disseminate information or analysis regarding the features or performance of the AMD hardware or software You access or use on the AMD AI & HPC Research Cluster; or
- m) use the AMD AI & HPC Research Cluster to store personally identifiable information (PII) (meaning information that identifies, relates to, or describes, directly or indirectly, a particular individual, such as: name, address, email address, phone number, or persistent device identifier), including Protected Health Information (as such term is defined in 45 C.F.R. § 160.103).

You acknowledge and agree that AMD and AMD's subcontractors may monitor Your use of the AMD AI & HPC for the purpose of confirming Your compliance with the Agreement and AMD may investigate any suspected violations of the Agreement, including without limitation the restrictions stated above. In the event of any violation or potential violation of any of these restrictions or any other material breach of this Agreement, AMD may (in addition to any other remedies available) immediately and without notice delete or destroy Customer Content stored in the AMD AI & HPC and suspend or terminate Your access to or use of the AMD AI & HPC Research Cluster, without any liability to You or any third party.

4. Feedback.

You have no obligation to give AMD any suggestions, comments or other feedback ("Feedback") relating to the AMD AI & HPC Research Cluster or any AMD hardware or software used in connection with the AMD AI & HPC Research Cluster. However, if You provide Feedback, AMD may use and include that Feedback to improve the AMD AI & HPC Research Cluster or other AMD products, software and technologies. Accordingly, for any Feedback You provide to AMD, You grant AMD and its affiliates and subsidiaries a worldwide, non-exclusive, irrevocable, royalty-free, perpetual license to directly or indirectly use, reproduce, license, sublicense, distribute, make, have made, sell and otherwise commercialize the Feedback in the AMD AI & HPC Research Cluster and in other AMD products, software and technologies. You further agree not to provide any Feedback that (a) You know is subject to any Intellectual Property Rights of any third party or (b) is subject to license terms which seek to require any products incorporating or derived from such Feedback, or any other AMD Intellectual Property Rights,



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

to be licensed to or otherwise shared with any third party. For purposes of this Agreement, "Intellectual Property Rights" means all copyrights, trademarks, trade secrets, patents, mask works, and all related, similar, or other intellectual property rights recognized in any jurisdiction worldwide, including all applications and registrations with respect thereto.

5. Intellectual Property Rights.

the AMD AI & HPC Research Cluster, all related documentation, and the hardware and software accessed using the AMD AI & HPC Research Cluster, including all Intellectual Property Rights therein, are and remain the sole and exclusive property of AMD or its licensors, and You have no right, title or interest therein except for the temporary access and use rights expressly set forth in this Agreement. Any rights not expressly granted under the Agreement are hereby reserved by AMD.

- 6. Third Party Materials.** The software running in the AMD AI & HPC Research Cluster may include third party components for which You must obtain licenses from parties other than AMD (collectively, "Third Party Materials"). These Third Party Materials are not licensed as part of the AMD AI & HPC Research Cluster and are used at Your sole discretion. You are solely responsible for obtaining all applicable Intellectual Property Rights to use the Third Party Materials. In addition, the software running in the AMD AI & HPC Research Cluster may include code or content subject to an open source or similar license ("Open Source Component"). To the extent that an Open Source Component is subject to a license that is inconsistent with this Agreement, then such Open Source Component shall be governed solely by the applicable open source license.

7. Disclaimer.

THE AMD AI & HPC RESEARCH CLOUD IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. AMD DISCLAIMS ALL WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NONINFRINGEMENT, AND WARRANTIES ARISING FROM CUSTOM OF TRADE OR COURSE OF USAGE. AMD DOES NOT WARRANT THAT THE CUSTOMER CONTENT USED OR UPLOADED BY YOU IN CONNECTION WITH YOUR USE OF THE AMD AI & HPC RESEARCH CLOUD WILL BE SECURE OR NOT OTHERWISE LOST OR DAMAGED. FURTHERMORE, AMD IS NOT LIABLE FOR ANY DELAYS, INTERRUPTIONS, SERVICE FAILURES AND OTHER PROBLEMS WITH THE AMD AI & HPC RESEARCH CLOUD OR INHERENT IN USE OF THE INTERNET AND ELECTRONIC COMMUNICATIONS OR OTHER SYSTEMS OUTSIDE THE REASONABLE CONTROL OF AMD. THE ENTIRE RISK ASSOCIATED WITH THE USE OF THE AMD AI & HPC RESEARCH CLOUD IS ASSUMED BY YOU. Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply to You.

8. Limitation on Liability and Indemnification.

TO THE EXTENT PERMITTED BY LAW, YOU UNDERSTAND AND AGREE THAT AMD AND ITS LICENSORS ARE NOT LIABLE TO YOU FOR ANY DAMAGE WHATSOEVER, INCLUDING SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR DAMAGES ATTRIBUTABLE TO LOSS OF PROFITS, BUSINESS INTERRUPTION, OR CORRUPTION OR LOSS OF INFORMATION, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE USE OR PERFORMANCE OF THE AMD AI & HPC RESEARCH CLOUD EVEN IF AMD AND ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. AMD's total liability to You for any and all damages, losses, and claims (whether in contract, tort (including negligence) or otherwise) in connection with this Agreement will not exceed \$100 USD. You agree to defend, indemnify and hold harmless AMD and its licensors, and any of their directors, officers, employees, affiliates or agents from and against any and all loss, damage, liability and other expenses (including reasonable attorneys' fees), resulting from Your use of the AMD AI & HPC Research Cluster or Your violation of the terms and conditions of this Agreement. The parties agree that the limitations specified in this section will apply to the maximum extent permitted under applicable law and will survive and apply even if any limited remedy specified in the Agreement is found to have failed of its essential purpose.

9. Privacy.

AMD may be required under applicable data protection law to provide You with certain information about who we are, how AMD processes any personal data You provide to AMD and for what purposes, and Your rights in relation



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

to Your personal information and how to exercise them. This information is provided in AMD's privacy policy (<https://www.amd.com/en/corporate/privacy>). It is important that You read this information.

10. Term and Termination.

a) Term and Renewals.

The Agreement is effective as of the date when the AMD AI & HPC Research Cluster is first made available to You, and unless terminated earlier in accordance with the Agreement, the Agreement will terminate on the earlier to occur of the (i) the end date of Your project allocation as specified in AMD's formal notification to You (which may be in electronic mail) that You have been awarded access to the AMD AI & HPC Research Cluster (the "Award Email"), or (ii) the date on which You have consumed the number of node hours as stated in the Award Email (the "Agreement Term").

b) Termination for Convenience

Either party may terminate the Agreement without cause and for its convenience upon thirty (30) days' prior written notice.

c) Termination for Cause

Either party may terminate the Agreement immediately if the other party (a) fails to cure any material breach of the Agreement within fifteen (15) days after written notice; (b) ceases operation without a successor; or (c) seeks protection under any bankruptcy, receivership, trust deed, creditors, arrangement, composition, or comparable proceeding, or if any such proceeding is instituted against that party (and not dismissed within sixty (60) days thereafter).

d) Effect of Termination

Within five (5) days after expiration or termination of the Agreement, You shall remove all Customer Content from the AMD AI & HPC Research Cluster. You acknowledge and agree that during this five-day period the AMD AI & HPC Research Cluster is made available to You solely for the purpose of enabling You to remove Your Customer Content from the AMD AI & HPC Research Cluster. You acknowledge that after such five-day period, AMD shall have no obligation to maintain or retain any Customer Content in AMD Customer Cluster and may thereafter, unless legally prohibited, delete all Customer Content in its systems or otherwise in its possession or under its control. Furthermore, upon any termination of the Agreement, You shall immediately cease any and all use of and access to the AMD AI & HPC Research Cluster and delete (or, at AMD's request, return) any and all copies of the documentation, any AMD passwords or access codes and any other AMD Confidential Information in its possession. Termination of the Agreement is not an exclusive remedy and the exercise of either party of any remedy under the Agreement will be without prejudice to any other remedies it may have under the Agreement, by law, or otherwise.

e) Survival

The following Sections shall survive any expiration or termination of the Agreement: 3 (Restrictions) 4 (Feedback), 5 (Intellectual Property Rights), 6 (Third Party Materials), 7 (Disclaimer), 8 (Limitation on Liability and Indemnification), 9 (Privacy), 10 (Term and Termination), 11 (Confidential Information), 12 (Governing Law), 13 (General Provisions), and 14 (Entire Agreement).

11. Confidential Information

The parties shall protect the Login Credentials, Customer Content and any information AMD provides to You about the AMD AI & HPC Research Cluster and any other information provided as part of this activity and marked as "Confidential Information" or similar terms (collectively, "Confidential Information") by using the same degree of care, but no less than a reasonable degree of care, to prevent the unauthorized use, dissemination or publication of the Confidential Information as each party uses to protect its own confidential information of a like nature. Unless prior approval is received from the Discloser, a party receiving Confidential Information ("Recipient") from the other party ("Discloser") shall not disclose any Confidential Information to any third party and shall limit disclosure of such Confidential Information to only those of its employees and contractors with a need to know and who are bound by confidentiality obligations with Recipient at least as restrictive as those contained in this Agreement. Each party shall be responsible for its employees and contractors' adherence to the terms of this Agreement. This Agreement imposes no obligation upon Recipient with respect to Confidential Information that Recipient can



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

reasonably demonstrate (a) was in Recipient's rightful possession on or before receipt from Discloser; (b) is or becomes a matter of public knowledge through no fault of Recipient; (c) is rightfully received by Recipient from a third party without a duty of confidentiality; or (d) is independently developed by Recipient without use of or reference to Confidential Information. If Recipient receives a request, demand, subpoena or order issued by a court of competent jurisdiction or authorized governmental agency to disclose all or any part of Confidential Information, Recipient may comply with such request or demand only if Recipient promptly notifies Discloser in writing of any such requirement prior to the disclosure of Confidential Information (except where such notification is prohibited by applicable law) and reasonably cooperates with Discloser regarding Discloser's efforts, if any, to protect against any such disclosure. Recipient may release only that portion of the Confidential Information as required by the court or agency.

12. Governing Law.

This Agreement is made under and shall be construed according to the laws of the State of Texas, excluding conflicts of law rules. Each party submits to the jurisdiction of the state and federal courts of Travis County and the Western District of Texas for the purposes of this Agreement.

13. General Provisions.

You may not assign this Agreement or any of Your rights hereunder without the prior written consent of AMD and any assignment without such consent will be null and void. The parties do not intend to create any agency or partnership relationship between them by this Agreement. Each provision of this Agreement will be interpreted in such a manner as to be effective and valid under applicable law. However, if any provision of this Agreement becomes or is declared unenforceable by any court of competent jurisdiction, such provision will be deemed deleted and the remainder of this Agreement will remain in full force and effect.

14. Entire Agreement.

This Agreement sets forth the entire agreement and understanding between the parties with respect to Your access and use of the AMD AI & HPC Research Cluster and supersedes and merges all prior oral and written agreements, discussions and understandings between us regarding the subject matter of this Agreement. No waiver or modification of any provision of this Agreement will be binding unless made in writing and signed by an authorized representative of each party.

If You agree to abide by all the terms and conditions stated above, please press "I Agree." If You do not agree to abide by the terms and conditions of this Agreement, then You may not access or use the AMD AI & HPC Research Cluster.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

Third-Party Notices for AMD AI & HPC Research Cluster

This summary and the license information provided below is for reference purposes and is not intended to be a comprehensive list of all copyright notices or license terms and conditions applicable to the AMD AI & HPC Research Cluster.

With respect to any license that requires AMD to make available to recipients of object code distributed by AMD pursuant to such license the corresponding source code, and if you desire to receive such source code from AMD, then AMD hereby offers (which offer is valid for as long as required by the applicable license; and we may charge you the cost thereof unless prohibited by the license) to provide you with a copy of such source code; and to accept such offer send a letter requesting such source code (please be specific by identifying the particular Software you are inquiring about (name and version number), to: Advanced Micro Devices, Inc., Legal Department, Attention: Software Compliance Officer, 2485 Augustine Drive, Santa Clara, CA U.S.A. 95054.

openMPI v4.1 (BSD-3-Clause)

Copyright Statements

Copyright (c) 2004-2010 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.

Copyright (c) 2004-2020 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.

Copyright (c) 2004-2019 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.

Copyright (c) 2004-2008 The Regents of the University of California. All rights reserved.

Copyright (c) 2006-2018 Los Alamos National Security, LLC. All rights reserved.

Copyright (c) 2006-2020 Cisco Systems, Inc. All rights reserved.

Copyright (c) 2006-2010 Voltaire, Inc. All rights reserved.

Copyright (c) 2006-2018 Sandia National Laboratories. All rights reserved.

Copyright (c) 2006-2010 Sun Microsystems, Inc. All rights reserved. Use is subject to license terms.

Copyright (c) 2006-2020 The University of Houston. All rights reserved.

Copyright (c) 2006-2009 Myricom, Inc. All rights reserved.

Copyright (c) 2007-2018 UT-Battelle, LLC. All rights reserved.

Copyright (c) 2007-2020 IBM Corporation. All rights reserved.

Copyright (c) 1998-2005 Forschungszentrum Juelich, Juelich Supercomputing Centre, Federal Republic of Germany

Copyright (c) 2005-2008 ZIH, TU Dresden, Federal Republic of Germany

Copyright (c) 2007 Evergrid, Inc. All rights reserved.

Copyright (c) 2008 Chelsio, Inc. All rights reserved.

Copyright (c) 2008-2009 Institut National de Recherche en Informatique. All rights reserved.

Copyright (c) 2007 Lawrence Livermore National Security, LLC. All rights reserved.

Copyright (c) 2007-2019 Mellanox Technologies. All rights reserved.

Copyright (c) 2006-2010 QLogic Corporation. All rights reserved.

Copyright (c) 2008-2017 Oak Ridge National Labs. All rights reserved.

Copyright (c) 2006-2012 Oracle and/or its affiliates. All rights reserved.

Copyright (c) 2009-2015 Bull SAS. All rights reserved.

Copyright (c) 2010 ARM Ltd. All rights reserved.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

Copyright (c) 2016 ARM, Inc. All rights reserved.
Copyright (c) 2010-2011 Alex Brick <bricka@ccs.neu.edu>. All rights reserved.
Copyright (c) 2012 The University of Wisconsin-La Crosse. All rights reserved.
Copyright (c) 2013-2019 Intel, Inc. All rights reserved.
Copyright (c) 2011-2017 NVIDIA Corporation. All rights reserved.
Copyright (c) 2016 Broadcom Limited. All rights reserved.
Copyright (c) 2011-2019 Fujitsu Limited. All rights reserved.
Copyright (c) 2014-2015 Hewlett-Packard Development Company, LP. All rights reserved.
Copyright (c) 2013-2020 Research Organization for Information Science (RIST). All rights reserved.
Copyright (c) 2017-2020 Amazon.com, Inc. or its affiliates. All Rights reserved.
Copyright (c) 2019-2020 Triad National Security, LLC. All rights reserved.
Copyright (c) 2020-2021 Cornelis Networks, Inc. All rights reserved."

License Text

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

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

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

SLURM v22.05.8 (GPL-2.0)

Copyright Statements

(c) 2002, 2003, 2004 by Jason McLaughlin and Riadh Elloumi

License text

GNU GENERAL PUBLIC LICENSE Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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 this service 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.

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 software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute 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 and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) 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; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software

Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision 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, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright

interest in the program `Gnomovision'

(which makes passes at compilers) written

by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

UCX v1.131 (BSD-3-Clause)

Copyright statements



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

Copyright (c) 2014-2015 UT-Battelle, LLC. All rights reserved.
Copyright (C) 2014-2020 Mellanox Technologies Ltd. All rights reserved.
Copyright (C) 2014-2015 The University of Houston System. All rights reserved.
Copyright (C) 2015 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.
Copyright (C) 2016-2020 ARM Ltd. All rights reserved.
Copyright (c) 2016 Los Alamos National Security, LLC. All rights reserved.
Copyright (C) 2016-2020 Advanced Micro Devices, Inc. All rights reserved.
Copyright (C) 2019 UChicago Argonne, LLC. All rights reserved.
Copyright (c) 2018-2020 NVIDIA CORPORATION. All rights reserved.
Copyright (C) 2020 Huawei Technologies Co., Ltd. All rights reserved.
Copyright (C) 2016-2020 Stony Brook University. All rights reserved."

License Text

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

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

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

GCC v12.2.0 (GPL-3.0)

Copyright Statements

Copyright (C) 2009 Free Software Foundation, Inc. <<http://fsf.org/>>

License Text

GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<https://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

Preamble

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

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.

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.

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.

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.

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.

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.

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.

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.

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

TERMS AND CONDITIONS

0. Definitions.

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

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

"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.

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.

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

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.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

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 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.

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.

2. Basic Permissions.

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.

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.

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

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

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.

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



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

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.

4. Conveying Verbatim Copies.

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.

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.

5. Conveying Modified Source Versions.

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:

- 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 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.



7171 Southwest Parkway
 Austin, Texas 78735
 Tel: 512-602-1000
www.amd.com

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 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.

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.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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.

7. Additional Terms.

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.



7171 Southwest Parkway
 Austin, Texas 78735
 Tel: 512-602-1000
www.amd.com

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<https://www.gnu.org/licenses/>>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>

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".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <<https://www.gnu.org/licenses/>>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <<https://www.gnu.org/licenses/why-not-lgpl.html>>.

PMIx v4.2.3 (BSD-3-Clause)

Copyright Statements

Copyright (c) 2004-2010 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.

Copyright (c) 2004-2010 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.

Copyright (c) 2004-2010 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.

Copyright (c) 2004-2008 The Regents of the University of California. All rights reserved.

Copyright (c) 2006-2010 Los Alamos National Security, LLC. All rights reserved.

Copyright (c) 2006-2010 Cisco Systems, Inc. All rights reserved.

Copyright (c) 2006-2010 Voltaire, Inc. All rights reserved.

Copyright (c) 2006-2011 Sandia National Laboratories. All rights reserved.

Copyright (c) 2006-2010 Sun Microsystems, Inc. All rights reserved. Use is subject to license terms.

Copyright (c) 2006-2010 The University of Houston. All rights reserved.

Copyright (c) 2006-2009 Myricom, Inc. All rights reserved.

Copyright (c) 2007-2008 UT-Battelle, LLC. All rights reserved.

Copyright (c) 2007-2019 IBM Corporation. All rights reserved.

Copyright (c) 1998-2005 Forschungszentrum Juelich, Juelich Supercomputing Centre, Federal Republic of Germany

Copyright (c) 2005-2008 ZIH, TU Dresden, Federal Republic of Germany



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

Copyright (c) 2007 Evergrid, Inc. All rights reserved.
Copyright (c) 2008 Chelsio, Inc. All rights reserved.
Copyright (c) 2008-2009 Institut National de Recherche en Informatique. All rights reserved.
Copyright (c) 2007 Lawrence Livermore National Security, LLC. All rights reserved.
Copyright (c) 2007-2019 Mellanox Technologies. All rights reserved.
Copyright (c) 2006-2010 QLogic Corporation. All rights reserved.
Copyright (c) 2008-2010 Oak Ridge National Labs. All rights reserved.
Copyright (c) 2006-2010 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2009 Bull SAS. All rights reserved.
Copyright (c) 2010 ARM Ltd. All rights reserved.
Copyright (c) 2010-2011 Alex Brick <bricka@ccs.neu.edu>. All rights reserved.
Copyright (c) 2012 The University of Wisconsin-La Crosse. All rights reserved.
Copyright (c) 2013-2019 Intel, Inc. All rights reserved.
Copyright (c) 2011-2014 NVIDIA Corporation. All rights reserved.
Copyright (c) 2019 Amazon.com, Inc. or its affiliates. All Rights reserved."

License Text

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

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

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

AMD ROCM v5.4.2

Copyright Statements

Copyright (c) 2022 Advanced Micro Devices, Inc. All rights reserved.

License Text



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

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

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

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

RockyLinux v9 (GPL-2.0)

Copyright Statements

Copyright 2021 Rocky Linux Project Authors.

License Text

GNU GENERAL PUBLIC LICENSE Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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 this service 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.

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 software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

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

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

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute 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 and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) 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; or,



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software

Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author



7171 Southwest Parkway
Austin, Texas 78735
Tel: 512-602-1000
www.amd.com

Gnomovision 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, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer"
for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program ``Gnomovision'`
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is
a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is
what you want to do, use the GNU Lesser General Public License instead of this License.