

1. LICENSE AGREEMENT FOR NVIDIA SOFTWARE DEVELOPMENT KITS

IMPORTANT NOTICE—READ BEFORE DOWNLOADING, INSTALLING, COPYING OR USING THE LICENSED SOFTWARE:

This license agreement, including exhibits attached ("Agreement") is a legal agreement between you and NVIDIA Corporation ("NVIDIA") and governs your use of a NVIDIA software development kit ("SDK").

Each SDK has its own set of software and materials, but here is a description of the types of items that may be included in a SDK: source code, header files, APIs, data sets and assets (examples include images, textures, models, scenes, videos, native API input/output files), binary software, sample code, libraries, utility programs, programming code and documentation.

This Agreement can be accepted only by an adult of legal age of majority in the country in which the SDK is used.

If you are entering into this Agreement on behalf of a company or other legal entity, you represent that you have the legal authority to bind the entity to this Agreement, in which case "you" will mean the entity you represent.

If you don't have the required age or authority to accept this Agreement, or if you don't accept all the terms and conditions of this Agreement, do not download, install or use the SDK.

You agree to use the SDK only for purposes that are permitted by (a) this Agreement, and (b) any applicable law, regulation or generally accepted practices or guidelines in the relevant jurisdictions.

1.1. License

1.1.1. License Grant

Subject to the terms of this Agreement, NVIDIA hereby grants you a non-exclusive, non-transferable license, without the right to sublicense (except as expressly provided in this Agreement) to:

1. Install and use the SDK,
2. Modify and create derivative works of sample source code delivered in the SDK, and

3. Distribute those portions of the SDK that are identified in this Agreement as distributable, as incorporated in object code format into a software application that meets the distribution requirements indicated in this Agreement.

1.1.2. Distribution Requirements

These are the distribution requirements for you to exercise the distribution grant:

1. Your application must have material additional functionality, beyond the included portions of the SDK.
2. The distributable portions of the SDK shall only be accessed by your application.
3. The following notice shall be included in modifications and derivative works of sample source code distributed: “This software contains source code provided by NVIDIA Corporation.”
4. Unless a developer tool is identified in this Agreement as distributable, it is delivered for your internal use only.
5. The terms under which you distribute your application must be consistent with the terms of this Agreement, including (without limitation) terms relating to the license grant and license restrictions and protection of NVIDIA’s intellectual property rights. Additionally, you agree that you will protect the privacy, security and legal rights of your application users.
6. You agree to notify NVIDIA in writing of any known or suspected distribution or use of the SDK not in compliance with the requirements of this Agreement, and to enforce the terms of your agreements with respect to distributed SDK.

1.1.3. Authorized Users

You may allow employees and contractors of your entity or of your subsidiary(ies) to access and use the SDK from your secure network to perform work on your behalf.

If you are an academic institution you may allow users enrolled or employed by the academic institution to access and use the SDK from your secure network.

You are responsible for the compliance with the terms of this Agreement by your authorized users. If you become aware that your authorized users didn’t follow the terms of this Agreement, you agree to take reasonable steps to resolve the non-compliance and prevent new occurrences.

1.1.4. Pre-Release SDK

The SDK versions identified as alpha, beta, preview or otherwise as pre-release, may not be fully functional, may contain errors or design flaws, and may have reduced or different security, privacy, accessibility, availability, and reliability standards relative to commercial versions of NVIDIA software and materials. Use of a pre-release SDK

may result in unexpected results, loss of data, project delays or other unpredictable damage or loss.

You may use a pre-release SDK at your own risk, understanding that pre-release SDKs are not intended for use in production or business-critical systems.

NVIDIA may choose not to make available a commercial version of any pre-release SDK. NVIDIA may also choose to abandon development and terminate the availability of a pre-release SDK at any time without liability.

1.1.5. Updates

NVIDIA may, at its option, make available patches, workarounds or other updates to this SDK. Unless the updates are provided with their separate governing terms, they are deemed part of the SDK licensed to you as provided in this Agreement. You agree that the form and content of the SDK that NVIDIA provides may change without prior notice to you. While NVIDIA generally maintains compatibility between versions, NVIDIA may in some cases make changes that introduce incompatibilities in future versions of the SDK.

1.1.6. Third Party Licenses

The SDK may come bundled with, or otherwise include or be distributed with, third-party software licensed by a NVIDIA supplier and/or open source software provided under an open source license. Use of third-party software is subject to the third-party license terms, or in the absence of third-party terms, the terms of this Agreement. Copyright to third party software is held by the copyright holders indicated in the third-party software or license.

Subject to the other terms of this Agreement, you may use the SDK to develop and test applications released under Open Source Initiative (OSI) approved open source software licenses.

1.1.7. Reservation of Rights

NVIDIA reserves all rights, title, and interest in and to the SDK, not expressly granted to you under this Agreement.

1.2. Limitations

The following license limitations apply to your use of the SDK:

1. You may not reverse engineer, decompile or disassemble, or remove copyright or other proprietary notices from any portion of the SDK or copies of the SDK.

2. Except as expressly provided in this Agreement, you may not copy, sell, rent, sublicense, transfer, distribute, modify, or create derivative works of any portion of the SDK. For clarity, you may not distribute or sublicense the SDK as a stand-alone product.
3. Unless you have an agreement with NVIDIA for this purpose, you may not indicate that an application created with the SDK is sponsored or endorsed by NVIDIA.
4. You may not bypass, disable, or circumvent any encryption, security, digital rights management or authentication mechanism in the SDK.
5. You may not use the SDK in any manner that would cause it to become subject to an open source software license. As examples, licenses that require as a condition of use, modification, and/or distribution that the SDK be:
 - a. Disclosed or distributed in source code form;
 - b. Licensed for the purpose of making derivative works; or
 - c. Redistributable at no charge.
6. Unless you have an agreement with NVIDIA for this purpose, you may not use the SDK with any system or application where the use or failure of the system or application can reasonably be expected to threaten or result in personal injury, death, or catastrophic loss. Examples include use in avionics, navigation, military, medical, life support or other life critical applications. NVIDIA does not design, test or manufacture the SDK for these critical uses and NVIDIA shall not be liable to you or any third party, in whole or in part, for any claims or damages arising from such uses.
7. You agree to defend, indemnify and hold harmless NVIDIA and its affiliates, and their respective employees, contractors, agents, officers and directors, from and against any and all claims, damages, obligations, losses, liabilities, costs or debt, fines, restitutions and expenses (including but not limited to attorney's fees and costs incident to establishing the right of indemnification) arising out of or related to your use of the SDK outside of the scope of this Agreement, or not in compliance with its terms.

1.3. Ownership

1. NVIDIA or its licensors hold all rights, title and interest in and to the SDK and its modifications and derivative works, including their respective intellectual property rights, subject to your rights under Section 3.2. This SDK may include software and materials from NVIDIA's licensors, and these licensors are intended third party beneficiaries that may enforce this Agreement with respect to their intellectual property rights.
2. You hold all rights, title and interest in and to your applications and your derivative works of the sample source code delivered in the SDK, including their respective intellectual property rights, subject to NVIDIA's rights under section 3.1.
3. You may, but don't have to, provide to NVIDIA suggestions, feature requests or other feedback regarding the SDK, including possible enhancements or modifications to the SDK. For any feedback that you voluntarily provide, you

hereby grant NVIDIA and its affiliates a perpetual, non-exclusive, worldwide, irrevocable license to use, reproduce, modify, license, sublicense (through multiple tiers of sublicensees), and distribute (through multiple tiers of distributors) it without the payment of any royalties or fees to you. NVIDIA will use feedback at its choice. NVIDIA is constantly looking for ways to improve its products, so you may send feedback to NVIDIA through the developer portal at <https://developer.nvidia.com>.

1.4. No Warranties

THE SDK IS PROVIDED BY NVIDIA “AS IS” AND “WITH ALL FAULTS.” TO THE MAXIMUM EXTENT PERMITTED BY LAW, NVIDIA AND ITS AFFILIATES EXPRESSLY DISCLAIM ALL WARRANTIES OF ANY KIND OR NATURE, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, OR THE ABSENCE OF ANY DEFECTS THEREIN, WHETHER LATENT OR PATENT. NO WARRANTY IS MADE ON THE BASIS OF TRADE USAGE, COURSE OF DEALING OR COURSE OF TRADE.

1.5. Limitation of Liability

TO THE MAXIMUM EXTENT PERMITTED BY LAW, NVIDIA AND ITS AFFILIATES SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR ANY LOST PROFITS, LOSS OF USE, LOSS OF DATA OR LOSS OF GOODWILL, OR THE COSTS OF PROCURING SUBSTITUTE PRODUCTS, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE USE OR PERFORMANCE OF THE SDK, WHETHER SUCH LIABILITY ARISES FROM ANY CLAIM BASED UPON BREACH OF CONTRACT, BREACH OF WARRANTY, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY OR ANY OTHER CAUSE OF ACTION OR THEORY OF LIABILITY. IN NO EVENT WILL NVIDIA’S AND ITS AFFILIATES TOTAL CUMULATIVE LIABILITY UNDER OR ARISING OUT OF THIS AGREEMENT EXCEED US\$10.00. THE NATURE OF THE LIABILITY OR THE NUMBER OF CLAIMS OR SUITS SHALL NOT ENLARGE OR EXTEND THIS LIMIT.

These exclusions and limitations of liability shall apply regardless if NVIDIA or its affiliates have been advised of the possibility of such damages, and regardless of whether a remedy fails its essential purpose. These exclusions and limitations of liability form an essential basis of the bargain between the parties, and, absent any of these exclusions or limitations of liability, the provisions of this Agreement, including, without limitation, the economic terms, would be substantially different.

1.6. Termination

1. This Agreement will continue to apply until terminated by either you or NVIDIA as described below.
2. If you want to terminate this Agreement, you may do so by stopping to use the SDK.
3. NVIDIA may, at any time, terminate this Agreement if:

- a. (i) you fail to comply with any term of this Agreement and the non-compliance is not fixed within thirty (30) days following notice from NVIDIA (or immediately if you violate NVIDIA's intellectual property rights);
 - b. (ii) you commence or participate in any legal proceeding against NVIDIA with respect to the SDK; or
 - c. (iii) NVIDIA decides to no longer provide the SDK in a country or, in NVIDIA's sole discretion, the continued use of it is no longer commercially viable.
4. Upon any termination of this Agreement, you agree to promptly discontinue use of the SDK and destroy all copies in your possession or control. Your prior distributions in accordance with this Agreement are not affected by the termination of this Agreement. Upon written request, you will certify in writing that you have complied with your commitments under this section. Upon any termination of this Agreement all provisions survive except for the licenses granted to you.

1.7. General

If you wish to assign this Agreement or your rights and obligations, including by merger, consolidation, dissolution or operation of law, contact NVIDIA to ask for permission. Any attempted assignment not approved by NVIDIA in writing shall be void and of no effect. NVIDIA may assign, delegate or transfer this Agreement and its rights and obligations, and if to a non-affiliate you will be notified.

You agree to cooperate with NVIDIA and provide reasonably requested information to verify your compliance with this Agreement.

This Agreement will be governed in all respects by the laws of the United States and of the State of Delaware as those laws are applied to contracts entered into and performed entirely within Delaware by Delaware residents, without regard to the conflicts of laws principles. The United Nations Convention on Contracts for the International Sale of Goods is specifically disclaimed. You agree to all terms of this Agreement in the English language.

The state or federal courts residing in Santa Clara County, California shall have exclusive jurisdiction over any dispute or claim arising out of this Agreement. Notwithstanding this, you agree that NVIDIA shall still be allowed to apply for injunctive remedies or an equivalent type of urgent legal relief in any jurisdiction.

If any court of competent jurisdiction determines that any provision of this Agreement is illegal, invalid or unenforceable, such provision will be construed as limited to the extent necessary to be consistent with and fully enforceable under the law and the remaining provisions will remain in full force and effect. Unless otherwise specified, remedies are cumulative.

Each party acknowledges and agrees that the other is an independent contractor in the performance of this Agreement.

The SDK has been developed entirely at private expense and is “commercial items” consisting of “commercial computer software” and “commercial computer software documentation” provided with RESTRICTED RIGHTS. Use, duplication or disclosure by the U.S. Government or a U.S. Government subcontractor is subject to the restrictions in this Agreement pursuant to DFARS 227.7202-3(a) or as set forth in subparagraphs (b)(1) and (2) of the Commercial Computer Software - Restricted Rights clause at FAR 52.227-19, as applicable. Contractor/manufacturer is NVIDIA, 2788 San Tomas Expressway, Santa Clara, CA 95051.

The SDK is subject to United States export laws and regulations. You agree that you will not ship, transfer or export the SDK into any country, or use the SDK in any manner, prohibited by the United States Bureau of Industry and Security or economic sanctions regulations administered by the U.S. Department of Treasury’s Office of Foreign Assets Control (OFAC), or any applicable export laws, restrictions or regulations. These laws include restrictions on destinations, end users and end use. By accepting this Agreement, you confirm that you are not a resident or citizen of any country currently embargoed by the U.S. and that you are not otherwise prohibited from receiving the SDK.

Any notice delivered by NVIDIA to you under this Agreement will be delivered via mail, email or fax. You agree that any notices that NVIDIA sends you electronically will satisfy any legal communication requirements. Please direct your legal notices or other correspondence to NVIDIA Corporation, 2788 San Tomas Expressway, Santa Clara, California 95051, United States of America, Attention: Legal Department.

This Agreement and any exhibits incorporated into this Agreement constitute the entire agreement of the parties with respect to the subject matter of this Agreement and supersede all prior negotiations or documentation exchanged between the parties relating to this SDK license. Any additional and/or conflicting terms on documents issued by you are null, void, and invalid. Any amendment or waiver under this Agreement shall be in writing and signed by representatives of both parties.

(v. November 2, 2020)

2. CUDA TOOLKIT SUPPLEMENT TO SOFTWARE LICENSE AGREEMENT FOR NVIDIA SOFTWARE DEVELOPMENT KITS

The terms in this supplement govern your use of the NVIDIA CUDA Toolkit SDK under the terms of your license agreement (“Agreement”) as modified by this supplement. Capitalized terms used but not defined below have the meaning assigned to them in the Agreement.

This supplement is an exhibit to the Agreement and is incorporated as an integral part of the Agreement. In the event of conflict between the terms in this supplement and the terms in the Agreement, the terms in this supplement govern.

2.1. License Scope

The SDK is licensed for you to develop applications only for use in systems with NVIDIA GPUs.

2.2. Distribution

The portions of the SDK that are distributable under the Agreement are listed in [Attachment A](#).

2.3. Operating Systems

Those portions of the SDK designed exclusively for use on the Linux or FreeBSD operating systems, or other operating systems derived from the source code to these operating systems, may be copied and redistributed for use in accordance with this Agreement, provided that the object code files are not modified in any way (except for unzipping of compressed files).

2.4. Audio and Video Encoders and Decoders

You acknowledge and agree that it is your sole responsibility to obtain any additional third-party licenses required to make, have made, use, have used, sell, import, and offer for sale your products or services that include or incorporate any third-party software and content relating to audio and/or video encoders and decoders from, including but not limited to, Microsoft, Thomson, Fraunhofer IIS, Sisvel S.p.A., MPEG-LA, and Coding Technologies. NVIDIA does not grant to you under this Agreement any necessary patent or other rights with respect to any audio and/or video encoders and decoders.

2.5. Licensing

If the distribution terms in this Agreement are not suitable for your organization, or for any questions regarding this Agreement, please contact NVIDIA at nvidia-compute-license-questions@nvidia.com.

2.6. Attachment A

The following portions of the SDK are distributable under the Agreement:

| | |
|------------------|--|
| Component | CUDA Runtime |
| Windows | cuda.dll, cuda_static.lib, cudadevrt.lib |
| Mac OSX | libcudart.dylib, libcudart_static.a, libcudadevrt.a |
| Linux | libcudart.so, libcudart_static.a, libcudadevrt.a |
| Android | libcudart.so, libcudart_static.a, libcudadevrt.a |
| Component | CUDA FFT Library |
| Windows | cufft.dll, cufftw.dll, cufft.lib, cufftw.lib |
| Mac OSX | libcufft.dylib, libcufft_static.a, libcufftw.dylib, libcufftw_static.a |
| Linux | libcufft.so, libcufft_static.a, libcufftw.so, libcufftw_static.a |
| Android | libcufft.so, libcufft_static.a, libcufftw.so, libcufftw_static.a |
| Component | CUDA BLAS Library |
| Windows | cublas.dll, cublas_device.lib |
| Mac OSX | libcublas.dylib, libcublas_static.a, libcublas_device.a |
| Linux | libcublas.so, libcublas_static.a, libcublas_device.a |
| Android | libcublas.so, libcublas_static.a, libcublas_device.a |
| Component | NVIDIA "Drop-in" BLAS Library |
| Windows | nvblas.dll |
| Mac OSX | libnvblas.dylib |
| Linux | libnvblas.so |
| Component | CUDA Sparse Matrix Library |
| Windows | cusparse.dll, cusparse.lib |
| Mac OSX | libcusparse.dylib, libcusparse_static.a |
| Linux | libcusparse.so, libcusparse_static.a |

| | |
|------------------|--|
| Android | libcusparse.so, libcusparse_static.a |
| Component | CUDA Linear Solver Library |
| Windows | cusolver.dll, cusolver.lib |
| Mac OSX | libcusolver.dylib, libcusolver_static.a |
| Linux | libcusolver.so, libcusolver_static.a |
| Android | libcusolver.so, libcusolver_static.a |
| Component | CUDA Random Number Generation Library |
| Windows | curand.dll, curand.lib |
| Mac OSX | libcurand.dylib, libcurand_static.a |
| Linux | libcurand.so, libcurand_static.a |
| Android | libcurand.so, libcurand_static.a |
| Component | CUDA Accelerated Graph Library |
| Windows | nvgraph.dll, nvgraph.lib |
| Mac OSX | libnvgraph.dylib, libnvgraph_static.a |
| Linux | libnvgraph.so, libnvgraph_static.a |
| Android | libnvgraph.so, libnvgraph_static.a |
| Component | NVIDIA Performance Primitives Library |
| Windows | nppc.dll, nppc.lib, nppial.dll, nppial.lib, nppicc.dll, nppicc.lib, nppicom.dll, nppicom.lib, nppidei.dll, nppidei.lib, nppif.dll, nppif.lib, nppig.dll, nppig.lib, nppim.dll, nppim.lib, nppist.dll, nppist.lib, nppisu.dll, nppisu.lib, nppitc.dll, nppitc.lib, npps.dll, npps.lib |
| Mac OSX | libnppc.dylib, libnppc_static.a, libnppial.dylib, libnppial_static.a, libnppicc.dylib, libnppicc_static.a, libnppicom.dylib, libnppicom_static.a, libnppidei.dylib, libnppidei_static.a, libnppif.dylib, libnppif_static.a, libnppig.dylib, libnppig_static.a, libnppim.dylib, libnppisu_static.a, libnppitc.dylib, libnppitc_static.a, libnpps.dylib, libnpps_static.a |
| Linux | libnppc.so, libnppc_static.a, libnppial.so, libnppial_static.a, libnppicc.so, libnppicc_static.a, libnppicom.so, libnppicom_static.a, libnppidei.so, libnppidei_static.a, libnppif.so, libnppif_static.a, libnppig.so, libnppig_static.a, libnppim.so, libnppim_static.a, libnppist.so, libnppist_static.a, libnppisu.so, libnppisu_static.a, libnppitc.so, libnppitc_static.a, libnpps.so, libnpps_static.a |
| Android | libnppc.so, libnppc_static.a, libnppial.so, libnppial_static.a, libnppicc.so, libnppicc_static.a, libnppicom.so, libnppicom_static.a, |

| | |
|------------------|--|
| | libnppidei.so, libnppidei_static.a, libnppif.so, libnppif_static.a, libnppig.so, libnppig_static.a, libnppim.so, libnppim_static.a, libnppist.so, libnppist_static.a, libnppisu.so, libnppisu_static.a, libnppitc.so, libnppitc_static.a, libnpps.so, libnpps_static.a |
| Component | NVIDIA JPEG Library |
| Linux | libnvjpeg.so, libnvjpeg_static.a |
| Component | Internal common library required for statically linking to cuBLAS, cuSPARSE, cuFFT, cuRAND, nvJPEG and NPP |
| Mac OSX | libculibos.a |
| Linux | libculibos.a |
| Component | NVIDIA Runtime Compilation Library and Header |
| All | nVRTC.h |
| Windows | nVRTC.dll, nVRTC-builtins.dll |
| Mac OSX | libnVRTC.dylib, libnVRTC-builtins.dylib |
| Linux | libnVRTC.so, libnVRTC-builtins.so |
| Component | NVIDIA Optimizing Compiler Library |
| Windows | nvvm.dll |
| Mac OSX | libnvvm.dylib |
| Linux | libnvvm.so |
| Component | NVIDIA Common Device Math Functions Library |
| Windows | libdevice.10.bc |
| Mac OSX | libdevice.10.bc |
| Linux | libdevice.10.bc |
| Component | CUDA Occupancy Calculation Header Library |
| All | cuda_occupancy.h |
| Component | CUDA Half Precision Headers |
| All | cuda_fp16.h, cuda_fp16.hpp |
| Component | CUDA Profiling Tools Interface (CUPTI) Library |
| Windows | cupti.dll |
| Mac OSX | libcupti.dylib |
| Linux | libcupti.so |

| | |
|------------------|---|
| Component | NVIDIA Tools Extension Library |
| Windows | nvToolsExt.dll, nvToolsExt.lib |
| Mac OSX | libnvToolsExt.dylib |
| Linux | libnvToolsExt.so |
| Component | NVIDIA CUDA Driver Libraries |
| Linux | libcuda.so, libnvidia-fatbinaryloader.so, libnvidia-ptxjitcompiler.so |
| Component | NVIDIA CUDA File IO Libraries and Header |
| All | cufile.h |
| Linux | libcufile.so, libcufile_rdma.so |

The NVIDIA CUDA Driver Libraries are only distributable in applications that meet this criteria:

1. The application was developed starting from a NVIDIA CUDA container obtained from Docker Hub or the NVIDIA GPU Cloud, and
2. The resulting application is packaged as a Docker container and distributed to users on Docker Hub or the NVIDIA GPU Cloud only.

In addition to the rights above, for parties that are developing software intended solely for use on Jetson development kits or Jetson modules and running Linux for Tegra software the following shall apply: the SDK may be distributed in its entirety, as provided by NVIDIA and without separation of its components, for you and/or your licensees to create software development kits for use only on the Jetson platform and running Linux for Tegra software.

[2.7. Attachment B](#)

Additional Licensing Obligations

(v. November 2, 2020)