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2.6. Glenn Randers-Pehrson

glennrp at users.sourceforge.net July 15, 2018

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12 typing_extensions

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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14 six

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16 dataclasses

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19 OpenCV

<https://github.com/opencv/opencv/blob/4.4.0/LICENSE>

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20 NVIDIA CUDA

<https://docs.nvidia.com/cuda/eula/index.html>

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NVIDIA Driver

Description

This package contains the operating system driver and fundamental system software components for NVIDIA GPUs.

NVIDIA CUDA Toolkit

Description

The NVIDIA CUDA Toolkit provides command-line and graphical tools for building, debugging and optimizing the performance of applications accelerated by NVIDIA GPUs, runtime and math libraries, and documentation including programming guides, user manuals, and API references.

Default Install Location of CUDA Toolkit

Windows platform:

```
%ProgramFiles%\NVIDIA GPU Computing Toolkit\CUDA\v#.#
```

Linux platform:

```
/usr/local/cuda-#.#
```

Mac platform:

```
/Developer/NVIDIA/CUDA-#.#
```

NVIDIA CUDA Samples

Description

This package includes over 100+ CUDA examples that demonstrate various CUDA programming principles, and efficient CUDA implementation of algorithms in specific application domains.

Default Install Location of CUDA Samples

Windows platform:

`%ProgramData%\NVIDIA Corporation\CUDA Samples\v#.#`

Linux platform:

`/usr/local/cuda-#.#/samples`

and

`$HOME/NVIDIA_CUDA-#.#_Samples`

Mac platform:

`/Developer/NVIDIA/CUDA-#.#/samples`

NVIDIA Nsight Visual Studio Edition (Windows only)

Description

NVIDIA Nsight Development Platform, Visual Studio Edition is a development environment integrated into Microsoft Visual Studio that provides tools for debugging, profiling, analyzing and optimizing your GPU computing and graphics applications.

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Modify and create derivative works of sample source code delivered in the SDK, and

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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.

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20.2.2. Distribution

The portions of the SDK that are distributable under the Agreement are listed in Attachment A.

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20.2.6. Attachment A

The following CUDA Toolkit files may be distributed with Licensee Applications developed by you, including certain variations of these files that have version number or architecture specific information embedded in the file name - as an example only, for release version 9.0 of the 64-bit Windows software, the file `cuda64_90.dll` is redistributable.

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`, `cublasLt.dll`

Mac OSX `libcublas.dylib`, `libcublasLt.dylib`, `libcublas_static.a`, `libcublasLt_static.a`

Linux `libcublas.so`, `libcublasLt.so`, `libcublas_static.a`, `libcublasLt_static.a`

Android `libcublas.so`, `libcublasLt.so`, `libcublas_static.a`, `libcublasLt_static.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 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-ptxjitcompiler.so

Component NVIDIA CUDA File IO Libraries and Header
All `cufile.h`

Linux `libcufile.so`, `libcufile_rdma.so`

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21 NVIDIA cuDNN

<https://docs.nvidia.com/deeplearning/cudnn/sla/index.html>

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(v. January 28, 2020)

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22 TecoGAN

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23 TecoGAN-PyTorch

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