



CUDNN SUPPORT MATRIX

DA-06762-001_v | November 2018

cuDNN Support Matrix



TABLE OF CONTENTS

Chapter 1. cuDNN For CUDA and NVIDIA Hardware..... 1
Chapter 2. cuDNN For OS Versions..... 3

Chapter 1.

CUDNN FOR CUDA AND NVIDIA HARDWARE

The [Table 1](#) describes the compatibility of cuDNN versions with the various supported CUDA, CUDA driver and NVIDIA hardware versions.

Table 1 cuDNN For CUDA and NVIDIA Hardware

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
7.4.1	-Turing (7.5), -Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.4.1	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.4.1	CUDA 9.1.85 (Not Supported)		
7.4.1	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.4.1	CUDA 8.0.61 (Not Supported)		
7.3.1	-Turing (7.5), -Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.3.1	-Volta (7.x),	CUDA 9.2.88	r396.26

	-Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)		
7.3.1	CUDA 9.1.85 (Not Supported)		
7.3.1	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.3.1	CUDA 8.0.61 (Not Supported)		
7.2.1	CUDA 10.0.x (Not Supported)		
7.2.1	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.2.1	CUDA 9.1.85 (Not Supported)		
7.2.1	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.2.1	-Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 8.0.61	r375.88
7.1.4	CUDA 10.0.x (Not Supported)		
7.1.4	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.1.4	CUDA 9.1.85 (Not Supported)		
7.1.4	-Volta (7.x), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.1.4	-Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 8.0.61	r375.88

Chapter 2.

CUDNN FOR OS VERSIONS

The [Table 2](#) describes the compatibility of cuDNN versions with the various supported OS versions.

Table 2 cuDNN Compatibility with OS Versions

cuDNN for Linux	cuDNN for MacOS	cuDNN for Windows
Ubuntu 16.04 or Ubuntu 14.04 or Ubuntu 18.04: For installing cuDNN with Debian files on x86_64 or POWER8/9	Mac OS X 10.11 or later	Windows 7
RHEL7.5: For installing cuDNN on POWER8 and POWER9		Windows 10
Any Linux Distribution: For installing cuDNN with tgz files on x86_64		Windows Server 2012 or Windows Server 2016

Notice

THE INFORMATION IN THIS GUIDE AND ALL OTHER INFORMATION CONTAINED IN NVIDIA DOCUMENTATION REFERENCED IN THIS GUIDE IS PROVIDED “AS IS.” NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE INFORMATION FOR THE PRODUCT, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. Notwithstanding any damages that customer might incur for any reason whatsoever, NVIDIA’s aggregate and cumulative liability towards customer for the product described in this guide shall be limited in accordance with the NVIDIA terms and conditions of sale for the product.

THE NVIDIA PRODUCT DESCRIBED IN THIS GUIDE IS NOT FAULT TOLERANT AND IS NOT DESIGNED, MANUFACTURED OR INTENDED FOR USE IN CONNECTION WITH THE DESIGN, CONSTRUCTION, MAINTENANCE, AND/OR OPERATION OF ANY SYSTEM WHERE THE USE OR A FAILURE OF SUCH SYSTEM COULD RESULT IN A SITUATION THAT THREATENS THE SAFETY OF HUMAN LIFE OR SEVERE PHYSICAL HARM OR PROPERTY DAMAGE (INCLUDING, FOR EXAMPLE, USE IN CONNECTION WITH ANY NUCLEAR, AVIONICS, LIFE SUPPORT OR OTHER LIFE CRITICAL APPLICATION). NVIDIA EXPRESSLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR SUCH HIGH RISK USES. NVIDIA SHALL NOT BE LIABLE TO CUSTOMER OR ANY THIRD PARTY, IN WHOLE OR IN PART, FOR ANY CLAIMS OR DAMAGES ARISING FROM SUCH HIGH RISK USES.

NVIDIA makes no representation or warranty that the product described in this guide will be suitable for any specified use without further testing or modification. Testing of all parameters of each product is not necessarily performed by NVIDIA. It is customer’s sole responsibility to ensure the product is suitable and fit for the application planned by customer and to do the necessary testing for the application in order to avoid a default of the application or the product. Weaknesses in customer’s product designs may affect the quality and reliability of the NVIDIA product and may result in additional or different conditions and/or requirements beyond those contained in this guide. NVIDIA does not accept any liability related to any default, damage, costs or problem which may be based on or attributable to: (i) the use of the NVIDIA product in any manner that is contrary to this guide, or (ii) customer product designs.

Other than the right for customer to use the information in this guide with the product, no other license, either expressed or implied, is hereby granted by NVIDIA under this guide. Reproduction of information in this guide is permissible only if reproduction is approved by NVIDIA in writing, is reproduced without alteration, and is accompanied by all associated conditions, limitations, and notices.

Trademarks

NVIDIA, the NVIDIA logo, and cuBLAS, CUDA, cuDNN, cuFFT, cuSPARSE, DALI, DIGITS, DGX, DGX-1, Jetson, Kepler, NVIDIA Maxwell, NCCL, NVLink, Pascal, Tegra, TensorRT, and Tesla are trademarks and/or registered trademarks of NVIDIA Corporation in the United States and other countries. Other company and product names may be trademarks of the respective companies with which they are associated.

Copyright

© 2018 NVIDIA Corporation. All rights reserved.