NVIDIA cuDNN

Support Matrix | NVIDIA Docs

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Chapter 1. GPU, CUDA Toolkit, and CUDA Driver Requirements

The following sections highlight the compatibility of NVIDIA® cuDNN versions with the various supported NVIDIA CUDA® Toolkit, CUDA driver, and NVIDIA hardware versions.

For the CUDA driver requirements for a given CUDA Toolkit version, refer to the CUDA Compatibility documentation.

Table 1. Supported NVIDIA Hardware and CUDA Version

cuDNN Package	Supported NVIDIA Hardware	CUDA Toolkit Version	CUDA Compute Capability	Supports static linking?[1]
cuDNN 8.4.1 for CUDA 11.x[2]	▶ NVIDIA Ampere Architecture ▶ NVIDIA Turing™ ▶ NVIDIA Volta™ ▶ NVIDIA Pascal™ ▶ NVIDIA Maxwell® ▶ NVIDIA Kepler™	11.7 11.6 11.5 11.4 11.3	SM 3.5 and later	Yes
		11.2 11.1 11.0		No
cuDNN 8.4.1 for CUDA 10.2	▶ NVIDIA Turing ▶ NVIDIA Volta ▶ Xavier™ ▶ NVIDIA Pascal ▶ NVIDIA Maxwell	10.2	SM 3.0 and later	Yes

[2] The cuDNN build for CUDA 11.x is compatible with CUDA 11.x for all x, including future CUDA 11.x releases that ship after this cuDNN release. Note that the cuDNN package names might refer to 11.6, but this actually means 11.x -- we plan to improve this naming for clarity in the future.

cuDNN Package	Supported NVIDIA Hardware	CUDA Toolkit Version	CUDA Compute Capability	Supports static linking?[1]
	▶ NVIDIA Kepler			

Chapter 2. CPU Architecture and OS Requirements

The following tables highlight the compatibility of cuDNN versions with the various supported OS versions.

For the requirements of previously released versions of cuDNN documentation, refer to the *NVIDIA cuDNN Archives*.

2.1. Linux

Refer to the following table to view the list of supported Linux versions for cuDNN.

Table 2. Linux Versions for cuDNN

Architecture	OS Name	OS Version	Distro Information		
			Kernel	GCC	Glibc
x86_64	RHEL	7.x	3.10.0	4.8.5[3]	2.19
		8.x	4.18	8.3.1	2.28
	Ubuntu	20.04	5.4.0	9.3.0	2.31
		18.04	4.15.0	8.2.0	2.27
ppc64le	RHEL	8.x	4.18	8.3.1	2.28
AArch64 incorporates ARM® based CPU cores for Server Base System Architecture (SBSA).	RHEL	8.x	4.18	8.3.1	2.28
	Ubuntu	20.04	5.4.0	9.3.0	2.27
AArch64	Ubuntu	18.04	4.15	7.3.1	2.31

[3] For platforms that ship a compiler version older than GCC 6 by default, linking to static cuDNN using the default compiler is not supported.

2.2. Windows

Windows 10 and Windows Server 2019 and 2016 are supported. Refer to the following table to view the list of supported Visual Studio versions for cuDNN.

Table 3. Visual Studio Versions for Based on Your Version of CUDA

	CUDA 11.x	CUDA 10.2
Visual Studio	2017	2015

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