



PyTorch for Jetson Platform

Release Notes

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Chapter 1. Overview

PyTorch on Jetson Platform

[PyTorch](#) (for JetPack) is an optimized tensor library for deep learning, using GPUs and CPUs. Automatic differentiation is done with a tape-based system at both a functional and neural network layer level. This functionality brings a high level of flexibility, speed as a deep learning framework, and provides accelerated NumPy-like functionality. These NVIDIA-provided redistributables are Python pip wheel installers for PyTorch, with GPU-acceleration and support for cuDNN. The packages are intended to be installed on top of the specified version of JetPack as in the provided documentation.

Jetson AGX Xavier

The NVIDIA Jetson AGX Xavier developer kit for Jetson platform is the world's first AI computer for autonomous machines. The Jetson AGX Xavier delivers the performance of a GPU workstation in an embedded module under 30W.

Jetson AGX Orin

The NVIDIA Jetson AGX Orin Developer Kit includes a high-performance, power-efficient Jetson AGX Orin module, and can emulate the other Jetson modules. You now have up to 275 TOPS and 8X the performance of NVIDIA Jetson AGX Xavier in the same compact form-factor for developing advanced robots and other autonomous machine products.

Chapter 2. PyTorch for Jetson Platform

This document describes the key features, software enhancements and improvements, and known issues regarding PyTorch on the Jetson platform. See [Installing PyTorch for Jetson Platform](#) for installation information.

Key Features and Enhancements

This release includes the following key features and enhancements.

- ▶ As of the 23.11 release, NVIDIA optimized PyTorch docker containers will also support iGPU architectures, including some Jetson devices. For more information on the containers themselves, please refer to the [PyTorch Container Release Notes](#).
- ▶ Starting from 24.06 release, [cusparseLt](#) support has been enabled for Jetson Platform.

Compatibility

Table 1. PyTorch compatibility with NVIDIA containers and Jetpack

PyTorch Version	NVIDIA Framework Container	NVIDIA Framework Wheel	JetPack Version
2.8.0a0+5228986c39	25.06	-	6.2
2.8.0a0+5228986c39	25.05	-	6.2
2.7.0a0+79aa17489c	25.04	-	6.2
2.7.0a0+7c8ec84dab	25.03	-	6.2
2.7.0a0+6c54963f75	25.02	-	6.2
2.6.0a0+ecf3bae40a	25.01	-	6.1
2.6.0a0+df5bbc09d1	24.12	-	6.1
2.6.0a0+df5bbc0	24.11	-	6.1
2.5.0a0+e000cf0ad9	24.10	-	6.1

PyTorch Version	NVIDIA Framework Container	NVIDIA Framework Wheel	JetPack Version
2.5.0a0+b465a5843b	24.09	24.09	6.1
2.5.0a0+872d972e41	24.08	-	6.0
2.4.0a0+3bcc3cddb5	24.07	24.07	6.0
2.4.0a0+f70bd71a48	24.06	24.06	6.0
2.4.0a0+07cecf4168	24.05	24.05	6.0
2.3.0a0+6ddf5cf85e	24.04	24.04	6.0 Developer Preview
2.3.0a0+40ec155e58	24.03	24.03	
2.3.0a0+ebedce2	24.02	24.02	
2.2.0a0+81ea7a4	23.12, 24.01	23.12, 24.01	
2.2.0a0+6a974bec	23.11	23.11	
2.1.0a		23.06	5.1.x
2.0.0		23.05	
2.0.0a0+fe05266f		23.04	
2.0.0a0+8aa34602		23.03	
1.14.0a0+44dac51c		23.02, 23.01	
1.13.0a0+936e930		22.11	5.0.2
1.13.0a0+d0d6b1f		22.09, 22,10	
1.13.0a0+08820cb	22.07	22.07	
1.13.0a0+340c412	22.06	22.06	5.0.1
1.12.0a0+8a1a93a9	22.05	22.05	5.0
1.12.0a0+bd13bc66		22.04	
1.12.0a0+2c916ef		22.03	
1.11.0a0+bfe5ad28		22.01	4.6.1

Using PyTorch with the Jetson Platform

Storage

If you need more storage, we recommend connecting an external SSD via SATA on TX2 or Xavier devices, or USB on Jetson Nano.

Known Issues

- TensorRT Model Optimizer is a new module but is not yet supported on Jetson due to its dependency on pytorch distributed functionality, which was disabled for Jetson.

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