

Apex Internal CI

Wheel Combinations

Apex wheels will be built for the following combinations:

- Apex Versions: master (1.8.0), 1.7.0, 1.6.0, 1.5.0, 1.4.0
- ROCm Versions: 7.0, 6.4, 6.3, 6.2, 6.1, 6.0
- Python Versions: 3.9 (cp39), 3.10 (cp310), 3.11 (cp311), 3.12 (cp312), 3.13 (cp313)
- Platform: linux_x86_64

Apex Build Configuration Strategy Table

Apex Version	PyTorch Version	ROCM Version	Python Versions	Platform	Number of Wheels
1.4.0	2.4.0	6.0	cp38, cp39, cp310, cp311, cp312	linux_x86_64	5
1.4.0	2.4.0	6.1	cp38, cp39, cp310, cp311, cp312	linux_x86_64	5
Total for 1.4.0 (1 PyTorch version × 2 ROCm versions × 5 Python versions)					10
1.5.0	2.5.0	6.1	cp39, cp310, cp311, cp312	linux_x86_64	4
1.5.0	2.5.0	6.2	cp39, cp310, cp311, cp312	linux_x86_64	4
Total for 1.5.0 (1 PyTorch version × 2 ROCm versions × 4 Python versions)					8

1.6.0	2.6.0	6.1	cp39, cp310, cp311, cp312, cp313, cp313t	manylinux _2_28_x86 _64	6
1.6.0	2.6.0	6.2.4	cp39, cp310, cp311, cp312, cp313, cp313t	manylinux _2_28_x86 _64	6
Total for 1.6.0 (1 PyTorch version × 2 ROCm versions × 6 Python versions)					12
1.7.0	2.7.0	6.2.4	cp39, cp310, cp311, cp312, cp313, cp313t	manylinux _2_28_x86 _64	6
1.7.0	2.7.0	6.3	cp39, cp310, cp311, cp312, cp313, cp313t	manylinux _2_28_x86 _64	6
1.7.0	2.7.0	6.4	cp39, cp310, cp311, cp312, cp313, cp313t	manylinux _2_28_x86 _64	6
Total for 1.7.0 (1 PyTorch version × 3 ROCm versions × 6 Python versions)					18
1.8.0	2.8	6.4	cp39, cp310,	manylinux _2_28_x86	6

			cp311, cp312, cp313, cp313t	_64		
1.8.0	2.8	7.0	cp39, cp310, cp311, cp312, cp313, cp313t	manylinux _2_28_x86 _64	6	
Total for 1.8.0 (1 PyTorch version × 2 ROCm versions × 6 Python versions)						12
Total Sum of Wheels						60

Note: Drafted this strategy table similar to [PyTorch wheels](#)

Naming Convention

The wheel names follow a pattern similar to [PyTorch wheels](#), incorporating the Apex version, ROCm version, Python version, and platform:

i apex-<apex_version>+rocm<rocm_version>+git<commit-id>-cp<python_version>-cp<python_version>-linux_x86_64.whl

Example:

- apex-1.8.0+rocm7.0git8d873bb6-cp39-cp39-linux_x86_64.whl
- apex-1.5.0+rocm6.2git3bb68d87-cp313-cp313-linux_x86_64.whl

Build Triggers

- **Manual Trigger:**

- Initiate for significant Apex updates. Such as new features.
- Applicable for all the Apex versions (1.4.0, 1.5.0, 1.6.0, 1.7.0, 1.8.0)
- when a new compiler version is introduced in ROCm, specifically for ROCm 6.4 (Apex 1.7.0, 1.8.0) and ROCm 7.0 (Apex 1.8.0).
- Initiated for specific updates in ROCm 7.0 (Apex 1.8.0) due to its active development and frequent changes. Manual control ensures builds are triggered only for significant ROCm

7.0 updates

- **Automated Trigger:** Regenerate the wheels when
 - Changes pushed to apex branch 1.7.0, 1.8.0 (master)
 - New PyTorch release - built for supported Apex version.
 - New Rocm release - build for supported version.
 - New Python release - built for supported Apex versions.
 - Monthly build for Apex 1.8.0 (master)