Installing Intel® oneAPI Components via Anaconda

This page provides general instructions on installing the Intel® oneAPI packages via the Conda package manager.

For additional installation notes, refer to the Conda installation documentation: https://docs.anaconda.com/anaconda/user-guide/tasks/install-packages/ .

To install a package, execute the following command:

- To install the latest version available:

```
conda install -c intel <package-name>
```

  See the values for <package-name> in the table below.

- To install a specific version:

```
conda install -c intel <package-name>==<version>
```

  Example: `conda install -c intel mkl==2021.1.1`

> **Limitation:** For Intel® oneAPI Deep Neural Network Library (oneDNN), only packages of identical configuration can be installed into one environment. For example, you can install `onednn-devel-cpu-vcomp` with `onednn-cpu-vcomp`, but should avoid installing it with packages of other configurations, like `cpu-iomp`, `cpu-tbb`, `cpu-dpcpp-gpu-dpcpp`.

See the full list of packages in the table:

Component Name	Package Name	Platform Availability	Dependencies
Intel® MPI Library	`impi_rt` `impi-devel`	`win-x64` `linux-x64`	N/A

Intel® Fortran Compiler (Beta) and Intel® Fortran Compiler Classic	`fortran_rt`	`win-x64`
		`win-x86`
		`linux-x64`
		`linux-x86`
		`osx-x64`
			Intel® MPI Library
			Intel OpenMP* Runtime Library

Intel® CPU Runtime for OpenCL™ Applications	`opencl_rt`	`win-x64`
		`linux-x64`
		`osx-x64`
			oneTBB

Intel® oneAPI DPC++/C++ Compiler	`dpcpp_cpp_rt`	`win-x64`
		`linux-x64`
		`osx-x64`
			Intel® CPU Runtime for OpenCL™ Applications
			Intel OpenMP* Runtime Library

Intel OpenMP* Runtime Library	`intel-openmp`	`win-x64`
		`win-x86`
		`linux-x64`
		`linux-x86`
		`osx-x64`
			N/A

Component Name	Package Name	Platform Availability	Dependencies
Intel® oneAPI Threading Building Blocks (oneTBB)	tbb tbb-devel	win-x64 win-x86 linux-x64 linux-x86 osx-x64	N/A
	tbb4py	win-x64 linux-x64 osx-x64	N/A
Intel® oneAPI Data Analytics Library (oneDAL)	dal dal-static dal-devel dal-include	win-x64 win-x86 linux-x64 linux-x86 osx-x64	oneTBB
Intel® Integrated Performance Primitives (Intel® IPP)	ipp ipp-static ipp-include	win-x64 win-x86 linux-x64 linux-x86 osx-x64	N/A
	ipp-devel	win-x64 win-x86	N/A
Intel® Integrated Performance Primitives Cryptography	ipp_crypto ipp_crypto-static ipp_crypto-include	win-x64 win-x86 linux-x64 linux-x86 osx-x64	N/A
	ipp_crypto-devel	win-x64 win-x86	N/A
Intel® oneAPI Math Kernel Library (oneMKL)	mkl mkl-devel mkl-static mkl-include	win-x64 win-x86 linux-x64 linux-x86 osx-x64	Intel OpenMP* Runtime Library oneTBB
	mkl-dpcpp mkl-devel-dpcpp	win-x64 linux-x64	Intel OpenMP* Runtime Library oneTBB Intel® oneAPI DPC++/C++ Compiler Runtime Intel® CPU Runtime for OpenCL™ Applications

Component Name	Package Name	Platform Availability	Dependencies

Intel® oneAPI Deep Neural Network Library (oneDNN)	`onednn-cpu-vcomp`
	
	`onednn-devel-cpu-vcomp`
		`win-x64`	N/A

	`onednn-cpu-gomp`
	
	`onednn-devel-cpu-gomp`
		`linux-x64`	N/A

	`onednn-cpu-iomp`
	
	`onednn-devel-cpu-iomp`
		`win-x64`
		`linux-x64`
		`osx-x64`
			Intel OpenMP* Runtime Library

	`onednn-cpu-tbb`
	
	`onednn-devel-cpu-tbb`
		`win-x64`
		`linux-x64`
		`osx-x64`
			oneTBB

	`onednn-cpu-dpcpp-gpu-dpcpp`
	
	`onednn-devel-cpu-dpcpp-gpu-dpcpp`
		`win-x64`
		`linux-x64`
			Intel® oneAPI DPC++/C++ Compiler Runtime
			
			Intel® CPU Runtime for OpenCL™ Applications

Intel® oneAPI Collective Communications Library (oneCCL)	`oneccl-devel`	`linux-x64`	N/A

Product and Performance Information

[1] Performance varies by use, configuration and other factors. Learn more at www.Intel.com/PerformanceIndex .