libmkl-full-dev_2020.0.166-1_amd64.deb

Description

libmkl-full-dev - Intel® Math Kernel Library (Intel® MKL) (Full Version Dev)

Property	Value
Operating system	**Linux**
Distribution	**Ubuntu 20.04 LTS (Focal Fossa)**
Repository	**Ubuntu Multiverse amd64**
Package filename	libmkl-full-dev_2020.0.166-1_amd64.deb
Package name	libmkl-full-dev
Package version	2020.0.166
Package release	1
Package architecture	amd64
Package type	deb
Homepage	https://software.intel.com/en-us/mkl
License	-
Maintainer	Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
Download size	16.80 KB
Installed size	88.00 KB
Category	multiverse/libdevel

```
Intel® Math Kernel Library (Intel® MKL) is a computing math library of highly
optimized, extensively threaded routines for applications that require
maximum performance. The library provides Fortran and C programming language
interfaces. Intel MKL C language interfaces can be called from applications
written in either C or C++, as well as in any other language that can
reference a C interface.
Intel MKL provides comprehensive functionality support in these major areas
of computation:
* BLAS (level 1, 2, and 3) and LAPACK linear algebra routines, offering
vector, vector-matrix, and matrix-matrix operations.
* ScaLAPACK distributed processing linear algebra routines, as well as the
Basic Linear Algebra Communications Subprograms (BLACS) and the Parallel
Basic Linear Algebra Subprograms (PBLAS).
* Intel MKL PARDISO (a direct sparse solver based on Parallel Direct Sparse
Solver PARDISO*), an iterative sparse solver, and supporting sparse BLAS
(level 1, 2, and 3) routines for solving sparse systems of equations, as
well as a distributed version of Intel MKL PARDISO solver provided for
use on clusters.
* Fast Fourier transform (FFT) functions in one, two, or three dimensions
with support for mixed radices (not limited to sizes that are powers of 2),
as well as distributed versions of these functions provided for use on
clusters.
* Vector Mathematics (VM) routines for optimized mathematical operations
on vectors.
* Vector Statistics (VS) routines, which offer high-performance vectorized
random number generators (RNG) for several probability distributions,
convolution and correlation routines, and summary statistics functions.
* Data Fitting Library, which provides capabilities for spline-based
approximation of functions, derivatives and integrals of functions, and
search.
* Extended Eigensolver, a shared memory programming (SMP) version of an
eigensolver based on the Feast Eigenvalue Solver.
* Deep Neural Network (DNN) primitive functions with C language interface.
This package pulls all the header files, static and shared objects of MKL.
```

Alternatives

Package
libmkl-full-dev

Requires

Name	Value
libmkl-computational-dev	= 2020.0.166-1
libmkl-dev	= 2020.0.166-1
libmkl-interface-dev	= 2020.0.166-1
libmkl-rt	= 2020.0.166-1
libmkl-threading-dev	= 2020.0.166-1

Required By

Search Packages

Download

Type	URL
Binary Package	http://archive.ubuntu.com/ubuntu/pool/multiverse/i/intel-mkl/libmkl-full-dev_2020.0.166-1_amd64.deb
Source Package	intel-mkl
Mirror	archive.ubuntu.com

Links

Name	URL
Package Homepage	https://launchpad.net/ubuntu/focal/+source/intel-mkl
Package Binaries	https://packages.ubuntu.com/source/focal/intel-mkl
Package Sources	https://git.launchpad.net/ubuntu/+source/intel-mkl/log/?h=ubuntu/focal
Issue Tracker	https://bugs.launchpad.net/ubuntu/+source/intel-mkl

Install Howto

1. Update the package index:
```
# sudo apt-get update
```
2. Install libmkl-full-dev deb package:
```
# sudo apt-get install libmkl-full-dev
```

Files

Path
/usr/share/doc/libmkl-full-dev/copyright
/usr/share/intel-mkl/builder/blas_example_list
/usr/share/intel-mkl/builder/cblas_example_list
/usr/share/intel-mkl/builder/cluster_example_list
/usr/share/intel-mkl/builder/dft_example_list
/usr/share/intel-mkl/builder/lapack_example_list
/usr/share/intel-mkl/builder/makefile
/usr/share/intel-mkl/builder/spblas_example_list
/usr/share/intel-mkl/builder/user_example_list
/usr/share/intel-mkl/builder/vml_vsl_example_list
/usr/share/lintian/overrides/libmkl-full-dev

Changelog

```
2020-02-17 - Mo Zhou <lumin@debian.org>
intel-mkl (2020.0.166-1) unstable; urgency=medium
* New upstream release 2020.0.166 (Dec 2019)
* Update my mail address in control and copyright.
* Update checksums and rules for this new release.
```

```
2019-09-28 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.5.281-1) unstable; urgency=medium
* New upstream release 2019.5.281 (Aug 2019)
* Update the MD5SUM for orig.tar.gz.
* Deprecate d/compat and B-D on debhelper-compat (= 11) instead.
* Bump Standards-Version to 4.4.0 (no change).
```

```
2019-07-24 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.4.243-1) unstable; urgency=medium
* New upstream release 2019.4.243
```

```
2019-07-24 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.3.199-2) unstable; urgency=medium
* Update testing code.
* Upload to unstable.
```

```
2019-03-21 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.3.199-1) experimental; urgency=medium
* New upstream release 2019.3.199 (March 2019)
* Update md5 checksum for 2019.3.119 orig tarball.
* Upload to experimental.
```

```
2019-02-17 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.2.187-1) unstable; urgency=medium
* New upstream release 2019.2.187
* Update md5 checksum for 2019.2.187 orig tarball.
```

```
2019-01-29 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.1.144-4) unstable; urgency=medium
* Make dependency on libomp-dev mandatory since iomp5 is the default
threading model used by libmkl-rt. Also make libmkl-rt depend on
devel packages instead of lib packages because libmkl-rt is calling
these libraries through libdl. (Closes: #920730)
* Update test scripts and Makefile in debian/tests.
* Replace embedded jquery in documentation/ja with symlink to libjs-jquery.
* Fix a spelling error in README.Debian.
```

```
2019-01-06 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.1.144-3) unstable; urgency=medium
* Overhaul README.Debian and make it concise.
* Rename mkl-rt*.pc to mkl-sdl*.pc, and remove -liomp5 from libs.
* Noop amd64-specific autopkgtest commands on i386.
* Bump Standards-Version to 4.3.0 (no change).
```

```
2019-01-05 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.1.144-2) unstable; urgency=medium
* Amend autopkgtest script:
(1) Link test program against gomp with -fopenmp
(2) Make ILP64 tests specific for amd64 architecture.
(3) Remove g++ argument "-m64" to fix failure on i386.
```

```
2019-01-04 - Mo Zhou <cdluminate@gmail.com>
intel-mkl (2019.1.144-1) unstable; urgency=medium
* New upstream release 2019.1.144
* Uscan: Monitor Tsinghua University's Anaconda mirror for MKL updates.
It looks like Intel has dropped the Pypi channel.
* Update checksum for intel-mkl.md5 and comments in rules.
* Autopkgtest: More test cases using abi-blas.c.
* Switch Depends on libiomp5.so (intel) as default threading library.
* Extend autopkgtest to 18 test cases.
* Help MKL find libgomp.so during autopkgtest.
```

See Also

Package
libmkl-gf-ilp64_2020.0.166-1_amd64.deb
libmkl-gf-lp64_2020.0.166-1_amd64.deb
libmkl-gnu-thread_2020.0.166-1_amd64.deb
libmkl-intel-ilp64_2020.0.166-1_amd64.deb
libmkl-intel-lp64_2020.0.166-1_amd64.deb
libmkl-intel-thread_2020.0.166-1_amd64.deb
libmkl-interface-dev_2020.0.166-1_amd64.deb

Package
libmkl-locale_2020.0.166-1_amd64.deb
libmkl-mc3_2020.0.166-1_amd64.deb
libmkl-mc_2020.0.166-1_amd64.deb
libmkl-meta-cluster_2020.0.166-1_amd64.deb
libmkl-meta-computational_2020.0.166-1_amd64.deb
libmkl-meta-interface_2020.0.166-1_amd64.deb
libmkl-meta-threading_2020.0.166-1_amd64.deb

libmkl-pgi-thread_2020.0.166-1_amd64.deb