Intel® Ordinary Differential Equation Solver Library
Installation and Startup Guide

Contents

Intel® Ordinary Differential Equation Solver Library (Intel® ODE Solver Library) can be used on systems based on IA-32 or Intel® 64 architecture and running the Windows* or Linux* operating system. Please check Release Notes for the list of compatible operating systems.

Installation and Startup on the Windows* Operating System

Installation

1. unzip the package into a suitable folder
2. `chdir` to the above folder

Running Examples

To run examples, first check Release Notes for the list of compatible compilers.

To run Fortran examples

1. Make sure a Fortran compiler is installed on your system and its environment is properly set
2. `chdir intel_ode\examples\FORTRAN`

Using Intel® Fortran compiler (recommended) to run examples on a 64-bit OS

3. `ifort iode_example_f.f /I..\..\include ..\..\lib\intel64\libiode_intel64.lib /Feiode.exe`
4. `iode.exe`

To run C examples

1. Make sure a C compiler is installed on your system and its environment is properly set
2. `chdir intel_ode\examples\C`

Using Intel® C/C++ compiler (recommended) to run examples on a 64-bit OS

3. `icl iode_example_c.c /I..\..\include ..\..\lib\intel64\libiode_intel64.lib /Feiode.exe`
4. `iode.exe`

Using Microsoft* C/C++ compiler on a 64-bit OS

3. `cl iode_example_c.c /I..\..\include ..\..\lib\intel64\libiode_intel64.lib /Feiode.exe`
4. `iode.exe`

To run examples on a 32-bit OS, please replace the library appropriately, that is, in the command lines above, instead of
`..\..\lib\intel64\libiode_intel64.lib`
type
`..\..\lib\ia32\libiode_ia32.lib`.

Installation and Startup on the Linux* Operating System

Installation

1. untar the package into a suitable folder
2. `cd` to the above folder

Running Examples

To run examples, first check Release Notes for the list of compatible compilers.

To run Fortran examples

1. Make sure a Fortran compiler is installed on your system and its environment is properly set
2. `cd ./intel_ode/examples/FORTRAN`

Using Intel® Fortran compiler (recommended) to run examples on a 64-bit OS

3. `ifort -static iode_example_f.f -I../../include -L../../lib/intel64 -liode_intel64 -lm -o iode.out`
4. `./iode.out`

Using GNU* Fortran compiler on a 64-bit OS

3. `gfortran -static iode_example_f.f -I../../include -L../../lib/intel64 -liode_intel64 -lm -o iode.out`
4. `./iode.out`

Using GNU* FORTRAN 77 compiler on a 64-bit OS

3. `g77 -fno-second-underscore -static iode_example_f.f -I../../include -L../../lib/intel64 -liode_intel64 -lm -o iode.out`
4. `./iode.out`

To run C examples

1. Make sure a C compiler is installed on your system and its environment is properly set
2. `cd ./intel_ode/examples/C`

Using Intel® C/C++ compiler (recommended) to run examples on a 64-bit OS

3. `icc -static iode_example_c.c -I../../include -L../../lib/intel64 -liode_intel64 -lm -o iode.out`
4. `./iode.out`

Using GNU* C compiler on a 64-bit OS

3. `gcc -static iode_example_c.c -I../../include -L../../lib/intel64 -liode_intel64 -lm -o iode.out`
4. `./iode.out`

To run examples on a 32-bit OS, please replace the library appropriately, that is, in the command lines above, instead of
`-L../../lib/intel64 -liode_intel64`
type
`-L../../lib/ia32 -liode_ia32`.

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