



Getting Started with the Intel(R) Visual Fortran Compiler Professional Edition 11.1 for Windows* OS

This guide shows you how to start Intel® Visual Fortran Compiler Professional Edition, build an Intel® Visual Fortran solution, use Intel® Math Kernel Library with your project, and gives directions for finding more user and reference information.

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1 *Start the Compiler in Visual Studio**

The Intel Compiler integrates into the following versions of the Microsoft Visual Studio* integrated development environment:

- Microsoft Visual Studio 2008*.
- Microsoft Visual Studio 2005*.
- Microsoft Visual Studio .NET 2003*.

If you do not have one of these Microsoft products on your system, the Intel Visual Fortran installation procedure installs Microsoft Visual Studio 2008 Shell and Libraries*.

Use the **Start > All Programs** list to locate and launch Microsoft Visual Studio.



After launching Visual Studio, do the following to use the Intel® Visual Fortran Compiler:

1. Select **File > New > Project**.
2. In the **New Project** window select a project type under **Intel(R) Visual Fortran**.
3. Select the desired template.
4. Click **OK**.

2 *Build an Intel® Visual Fortran Solution*

After selecting the Intel® Visual Fortran Compiler for your project(s), proceed as usual to build, debug, and run your project.

1. Select your Intel Visual Fortran solution in the Solution Explorer.
2. Select **Build > Build Solution** from the Visual Studio Build menu.

See Intel® Visual Fortran Compiler Professional Edition online help for more information on building applications. See [User and Reference Documentation](#) to help locate additional information and help.

3 *Start the Compiler from the Command Line*

To start the compiler from the Windows command line, use the Windows program menu to select:

**Intel(R) Software Development Tools >
Intel(R) Visual Fortran Compiler Professional 11.1.xxx >
Fortran Build Environment for applications running on ...**

This method opens a Windows command prompt and sets the environment variables for the Intel compiler. To compile a Fortran source file (for example, `my_source_file.f90`), use this command:

```
ifort my_source_file.f90
```

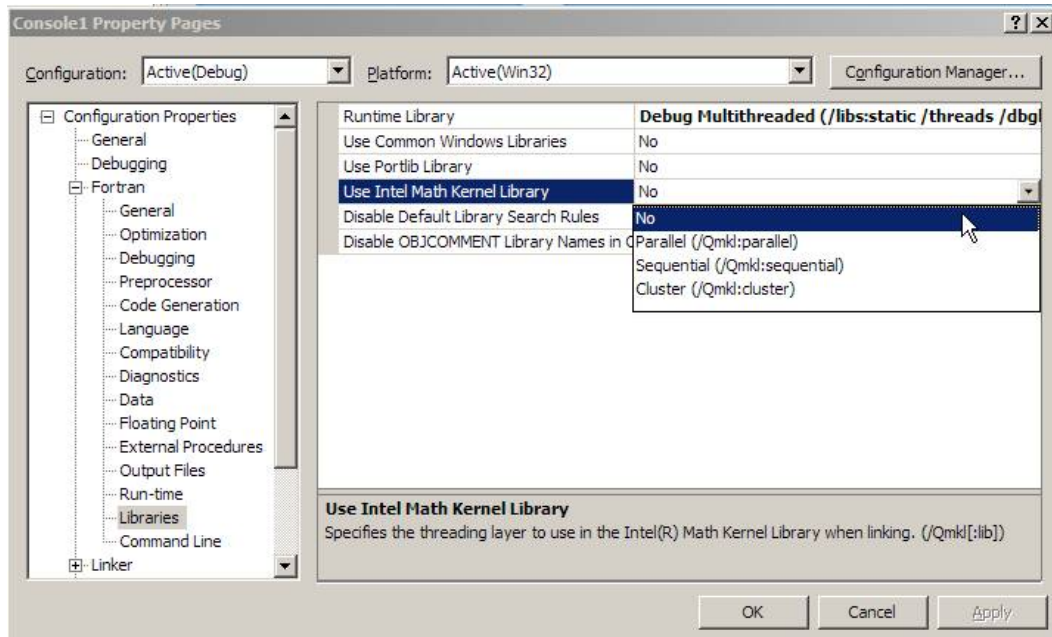
Following successful compilation, an executable named `my_source_file.exe` is created in the current directory.



4 Use Intel® Math Kernel Library

To use the Intel® Visual Fortran project with the Intel® Math Kernel Library, do the following:

1. Select your Intel Fortran project in the Solution Explorer.
2. Open **Property Pages**.
3. In the **Property Pages**, go to **Fortran > Libraries**.
4. Select **Use Intel® Math Kernel Library** from the list of available libraries.



5. Select a desired option from the **Intel Math Kernel Library** pull-down menu:

Action	Result
Select Parallel	Use threaded Intel® MKL libraries.
Select Sequential	Use non-threaded Intel® MKL libraries.
Select Cluster	Use Intel® MKL cluster functions (Scalable LAPACK, Cluster DFT, and PBLAS) in addition to threaded libraries.
Select No	Disable using Intel® MKL. Default.

6. Click **Apply** then **OK**.



5 User and Reference Documentation

This guide focuses on basic Intel® Visual Fortran Compiler Professional features. To explore more features, check the following resources.

Resources	Notes
<i>Intel® Visual Fortran Compiler Professional Edition Documentation</i>	<p>Use this HTML page to locate additional documentation for the following:</p> <ul style="list-style-type: none">• Intel(R) Visual Fortran Compiler.• Intel® Math Kernel Library. <p>To open this HTML page, from the Windows* Start menu, choose Intel® Software Development Tools > Intel® Visual Fortran Compiler Professional 11.1.xxx > Documentation.</p>
Integrated User and Reference Help	<p>Open the integrated user and reference help from Microsoft Visual Studio* Help menu. Select Help > Intel Visual Fortran Compiler Pro > Intel Visual Fortran Compiler Help.</p> <p>Filter the contents and index information; select Intel from the Filtered by drop-down list to view only the Intel® Compiler Pro documentation.</p>
Samples	<p>Use sample code in a zip file provided at <code><install_dir>\Samples\<locale>\Fortran\</code> to learn how to use various threading techniques.</p> <p>This folder contains a file called <code>samples.htm</code>, which provides an overview of the samples.</p>
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