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.

Contents

1 Start the Compiler in Visual Studio* ................................................................. 1
2 Build an Intel® Visual Fortran Solution ............................................................. 2
3 Start the Compiler from the Command Line .................................................... 2
4 Use Intel® Math Kernel Library ........................................................................ 3
5 User and Reference Documentation .................................................................. 4
Legal Information ................................................................................................... 5

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:

```bash
ifort my_source_file.f90
```

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

<table>
<thead>
<tr>
<th>Action</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select <strong>Parallel</strong></td>
<td>Use threaded Intel® MKL libraries.</td>
</tr>
<tr>
<td>Select <strong>Sequential</strong></td>
<td>Use non-treaded Intel® MKL libraries.</td>
</tr>
<tr>
<td>Select <strong>Cluster</strong></td>
<td>Use Intel® MKL cluster functions (Scalable LAPACK, Cluster DFT, and PBLAS) in addition to threaded libraries.</td>
</tr>
<tr>
<td>Select <strong>No</strong></td>
<td>Disable using Intel® MKL. Default.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Resources</th>
<th>Notes</th>
</tr>
</thead>
</table>
| Intel® Visual Fortran Compiler Professional Edition Documentation | Use this HTML page to locate additional documentation for the following:  
  • Intel(R) Visual Fortran Compiler.  
  • Intel® Math Kernel Library.  
  To open this HTML page, from the Windows* Start menu, choose Intel® Software Development Tools > Intel® Visual Fortran Compiler Professional 11.1.xxx > Documentation. |
  Filter the contents and index information; select Intel from the Filtered by drop-down list to view only the Intel® Compiler Pro documentation. |
| Samples | Use sample code in a zip file provided at <install_dir>\Samples\<locale>\Fortran\ to learn how to use various threading techniques.  
  This folder contains a file called samples.htm, which provides an overview of the samples. |
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