

# Pro Fortran for Windows

## Fortran & C/C++ Compiler Suite

### Windows 95/98/ME and Windows NT/2000/XP

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Absoft Pro Fortran compiler suite for Windows include globally optimizing Fortran and C/C++ compilers integrated into a complete, easy to use integrated development environment(IDE) designed for Fortran users. Code is link and debug compatible with Microsoft C. Full support of Win API directly from Fortran. Complete hard-copy documentation with step-by-step examples and responsive, free technical support is included with each license. Absoft Pro Fortran for Windows is available in academic, commercial/government, and MP versions.

**Pro Fortran 9.0** - Commercial/Government Release. A complete Fortran compiler suite optimized for single processor Windows 95/98/ME and Windows NT/2000/XP systems.

**Pro FortranMP 9.0** - includes everything in the Standard Release plus a thread-safe runtime library and an Introductory Version of Vast-F/Parallel, an auto-parallelizing preprocessor capable of automatically restructuring your code for execution on NT/2000/XP dual processor systems.

#### Compilers

##### *best for writing new code*

- ANSI/ISO F90/95 with extensions
- INTEGER\*8
- REAL\*16
- Array Syntax
- Elemental Intrinsic
- Modules
- Operator Extensions
- Derived Types
- Global code optimization

##### *best for porting legacy code*

- Full ANSI/ISO FORTRAN 77
- VAX/VMS language extensions
- VAX/VMS intrinsics and libraries
- Cray POINTER, Sun, IBM, and HP extensions
- Microsoft language extensions
- Optional IMSL Math & Stat Libraries
- Source compatible with Absoft Fortran products for Macintosh and Linux

#### System Requirements

- 128MB RAM, Pentium III
- 100MB free hard disk space
- Windows 98 or later

#### Graphics

- PLplot Graphics Library
- Full 2D & 3D Graphics Library
- Full color
- Output can be to a display or postscript
- Compatible with Fortran, C and C++

#### Compiler Optimizations

- P4 and AMD specific optimizers
- Instruction scheduling
- Common subexpression elimination
- Loop unrolling
- Constant and copy propagation
- Data flow analysis
- Loop invariant removal
- Strength reduction
- Branch straightening
- Code hoisting

Weitere Informationen über Absoft Quellcode-kompatible Fortran Produkte für Macintosh, Linux und AMD64 finden Sie unter

[www.ordinate.de/produkte/absoft](http://www.ordinate.de/produkte/absoft)

#### Customization

- Windows 9x and XP interfaces
- Single GUI interface runs all compilers
- Complete set of command-line options
- Control variables and variable groups
- Debug and trace information
- Easy Fortran/C interface
- Various source compatibility options (VAX/VMS, IBM, etc.)
- Source analyzer with non-ANSI flag
- Extensive diagnostic messages
- Graphical interface to make facility

#### Fx2 Debugging Solution

- Compatible with Absoft F90/95, F77, C/C++
- Array display & performance profiler
- Array bounds checking

#### Editor

- Compatible with F90/95, F77, C/C++
- Colorized keywords and comments
- Edit multiple files at the same time

#### New Features

- Programmer's editor
- Runtime stack trace
- Supports files larger than 2GB
- PLplot 2D & 3D graphics library
- OpenGL support
- Improved IDE
- 'Explain' detailed error message reporting
- 3rd party editor support
- ATLAS BLAS routines optimized for P4/AMD

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