

NAG Fortran Compiler and NAG Fortran Builder



➤ The NAG Fortran Compiler and NAG Fortran Builder environment for Microsoft Windows are products, developed by NAG experts, for Fortran programmers. The Compiler is a reliable and robust tool for technical computing that underpins the programs of thousands of Fortran users around the world. The Fortran Builder, for Microsoft Windows, provides an integrated environment for developers.

Both NAG Fortran Compiler and NAG Fortran Builder are provided with gold standard, comprehensive documentation – that has become synonymous with NAG software – giving users the information and help needed to carry out their work quickly and effectively.

➤ NAG Fortran Compiler – what is it?

A robust, highly tested, and valued compiler, renowned for its standard conformance, checking capabilities and detailed error reporting. The NAG Fortran Compiler is available on many Unix platforms and Microsoft Windows. It conforms to the Fortran 77, 90 and 95 standards. It provides almost all of Fortran 2003, including a virtually complete implementation of the object oriented features. In addition, quadruple precision REAL and COMPLEX is provided on all platforms.

NAG Fortran Builder – what is it?

An Integrated Development Environment (IDE) for the NAG Fortran Compiler for Microsoft Windows. NAG Fortran Builder provides a Fortran-aware editor, build system, GUI debugger and help system. The compiler can still be accessed from the command line and make files for those who prefer to work that way.

“My programs are much cleaner thanks to the new features in the NAG Fortran Compiler. This may seem like a minor issue, but there are literally hundreds of routines in my programs which pass arrays between them, and simpler interfaces lead to fewer mistakes. It’s also useful to be able to write subroutines which decide the size of their return arrays internally, and to have allocatable arrays as structure components.”

Ian Thompson

Research Associate, University of Loughborough

➤ Key features

NAG Fortran Compiler

- ▶ Standard, conforming Fortran 77, 90, 95 and 2003
- ▶ Extensive checking facilities
- ▶ New Fortran 2003 language features, including OO features
- ▶ Quadruple precision
- ▶ Extensive on-line help system, plus PDF manual

NAG Fortran Builder

- ▶ Fortran-aware editor
- ▶ GUI debugger
- ▶ Integrated build system
- ▶ Expert help system including extensive Fortran language guide
- ▶ Easy access to the NAG Fortran Library (licence required)



NAG Fortran Compiler and NAG Fortran Builder

Why should I use the NAG Fortran Compiler and NAG Fortran Builder?

Future-proof your code

By using NAG Fortran you're getting access to the latest Fortran language features.

Safeguard your code

NAG Fortran's checking features ensure the portability of your code.

Ease of use

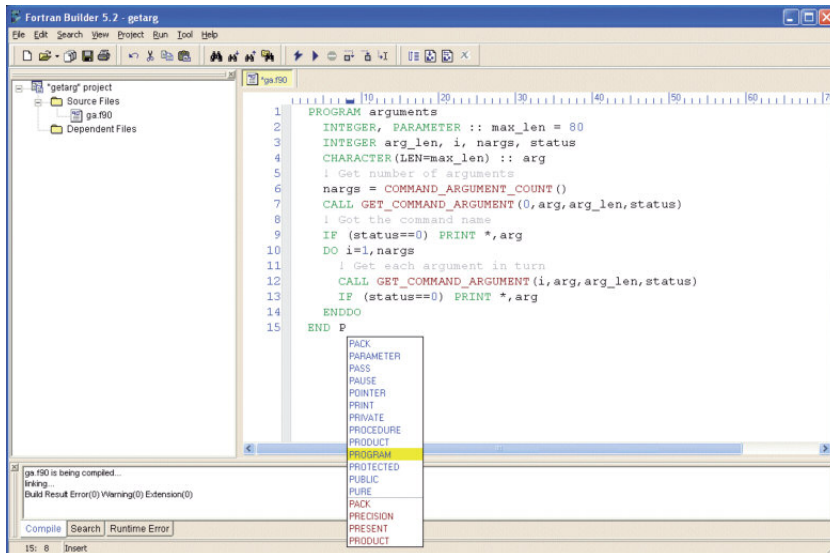
On Microsoft Windows, Fortran Builder is a modern integrated development environment for those who prefer this way of coding, building and debugging.

Access numerical, statistical and graphics functionality

Included in the NAG Fortran Builder is access to numerical and statistical functionality via the NAG Library, LAPACK and OpenGL.

NAG's expert support service

By subscribing to NAG's dedicated in-house Customer Support Service, not only will you receive product updates which includes new and improved functionality, but you can contact NAG experts who will assist with your technical queries of difficulties.



The screen capture shows the Fortran Builder Fortran-aware editor keyword completion feature. The letter 'P' has been typed and the editor has produced a list of keywords beginning with 'P' and 'PROGRAM' has been selected. In the lower pane, the results of a previous compilation can be seen.

Product availability

NAG Fortran Compiler is available for Unix (including Linux and Mac OS).
NAG Fortran Compiler is available on Microsoft Windows with the Fortran Builder IDE.

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