

Numerical Algorithms Group

Experts in numerical software and HPC services

➤ The Numerical Algorithms Group (NAG) is dedicated to applying its unique expertise in numerical software engineering to delivering high quality computational software and high performance computing services. For four decades NAG experts have worked closely with world-leading researchers in academia and industry to create powerful, accurate and flexible software which is today relied on by tens of thousands of users, companies, learning institutions as well as numerous independent software vendors.

Established as a collaborative inter-university venture and steeped in numerical history, including world firsts, NAG's present and future is equally as exciting as its past. Comprising collaborative projects, including being a partner to HECToR – the UK's national supercomputing service, and the continual development of NAG's highly renowned numerical libraries, the strategy is well established but also challenging.

Fundamental to NAG's longevity and success is its ethos for collaboration and support of research, development and learning. Its not-for-profit status allows it to focus on the advancement of its staff, the research and development of its products and services, and the fostering of new numerical and scientific talent. NAG's expertise, gained through the provision and support of its globally renowned numerical libraries and HPC services, is the cornerstone upon which all projects and research into future technologies and products is based.

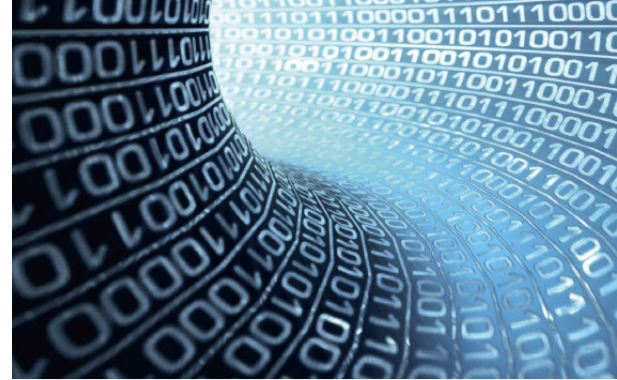
NAG currently employs over 100 people in its offices in Oxford, Manchester, Chicago, Tokyo and Taipei and has a worldwide network of distributors.

“The reputation for reliability of NAG software gave us the confidence that we would get the right results”

Jean Gaul

Head of the development team, SETRA

nag[®] Results Matter. Trust NAG.



➤ NAG products and services

Numerical Libraries

- ▶ NAG Fortran Library
- ▶ NAG C Library
- ▶ NAG Library for SMP & multicore
- ▶ NAG Toolbox for MATLAB

Compilers

- ▶ NAG Fortran Compiler
- ▶ NAG Fortran Builder

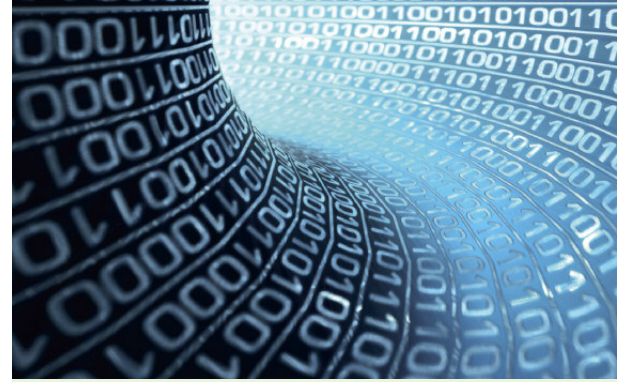
Services

- ▶ NAG HPC Services
- ▶ NAG Partner Program



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↓ Numerical Libraries

Produced by experts for use in a variety of applications the NAG Libraries are the largest commercially available collections of numerical, statistical and data mining algorithms in the world. With over 1,600 tried and tested routines that are renowned for correctness and flexibility the NAG Libraries are at the core of tens of thousands of applications spanning the globe. Whether you're working on a PC, or a cluster of supercomputers, the NAG Library has the functionality and capabilities to fit your model. It is available for many different programming languages, environments and packages including: C, C++, C#, Fortran, Java, Maple, MATLAB, Microsoft Excel, Microsoft .NET, Octave, Python, R, Visual Basic, Scilab, Labview.

Compilers

NAG Fortran Compiler – (derived from the world's first Fortran 90 Compiler, developed by NAG) is robust, highly tested and valued by developers for its checking capabilities and detailed error reporting. Available on a wide range of Unix platforms.

NAG Fortran Builder – is an Integrated Development Environment for the NAG Fortran Compiler for Microsoft Windows. It provides key features including a graphical user interface making it easy to use.

Services

HPC Services – Organizations can achieve an enhanced commercial advantage from computation by partnering with NAG's HPC Consulting Service. NAG experts support the whole business lifecycle including requirements review, HPC strategy, resource and service delivery planning and acquisition, and parallel software engineering support.

ISV, Hardware & Software Consulting – Many blue chip software and hardware vendors and ISVs have chosen to partner with NAG to enhance their own product offerings. See NAG's website for case studies.

NAG mission

To create high quality, commercially relevant computational software and services for commerce and research.

NAG vision

To be universally recognized as the preferred source for computational products and services and the preferred partner for collaboration.

NAG values

Integrity, quality and profound respect for the individual in our dealings with customers, staff, members and partners.

NAG ethos

Collaborative, consultative, consensus-based, principled, transparent.

↓ Collaboration, collaboration, collaboration

Throughout its history, NAG has been involved in collaborative ventures with universities, research and commercial organizations worldwide, ensuring that NAG remains at the forefront in research and development. This collaboration with other organizations and individuals is a continuing activity within NAG and part of NAG's company ethos.

NAG participated projects include:

- ▶ ADVISE – Research project Analysis of Data in a VISual Environment
- ▶ MKM – Mathematical Knowledge Management Network
- ▶ MONET – Investigation into mathematical web services
- ▶ EUREDIT – Developing and evaluating new methods for editing and imputation
- ▶ PINEAPL – High Performance Computing and Networking
- ▶ STABLE – Statistical Visual Computing Environments
- ▶ FRISCO – Esprit Reactive LTR Scheme
- ▶ OpenMath – Esprit Multimedia Standards Initiative
- ▶ DECISION – Integrated optimisation strategies for increased engineering design complexities
- ▶ NICONET – Development and evaluation of numerically reliable software in control engineering and its implementation in production technologies
- ▶ VIVRE – Visualization through an Interactive Virtual Reality Environment
- ▶ METROS – Development of an effective mechanism for software reuse in Metrology

↓ Contact us

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