



## NAG 2020

NAG

Available to purchase until 31/07/2025

Numerical Algorithms Group. NAG produces and distributes numerical, symbolic, statistical, visualisation and simulation software for the solution of problems in a wide range of applications in areas including science, engineering, financial analysis and research.

## Key Facts

### Benefits

- Site or departmental licence
- Simplified “per operating system” licensing model
- Fixed pricing for three or five years

### Important Dates

**Agreement start:** 1 August 2020

**Agreement end:** 31 July 2025

Invoice date: 1 May or (1 February for "Early Bird" sites)

### Commitment Period

Institutions may join the agreement from the date of joining until 31 July 2023 or until 31 July 2025. Sites licensed until 31 July 2023 can extend their licence for a further two years from 1 August 2023 to 31 July 2025.

### Eligible Institutions

Higher and Further Education and Research Councils in the United Kingdom, and Universities and Colleges of Further Education in the Republic of Ireland.

Other organisations aligned with Jisc's charitable objectives of supporting education, research bodies and the public sector may ask to participate in the Agreement. Chest will liaise with the Supplier about any such requests.

### Background Information

This long established Chest Agreement has been renewed for five more years to support the many sites that use NAG's software products.

## Product Information

### Supplier Details

Owner: The Numerical Algorithms Group Ltd, registered in England and Wales (company number 1249803), whose registered office is Wilkinson House, Jordan Hill Road, Oxford, OX2 8DR

## Product and Services News from NAG

The [NAG Library](#) gives academic staff and students access to over 1,900+ high quality mathematically and statistically routines from the language or environment of their choice (e.g. C/C++, C#.NET, Python, Java, Fortran, MATLAB, VBA/Excel, ...). These can be **accessed from University and personal computers** for academic use.

The [NAG Library](#) is now at Mark 27 - Recent [major additions](#) include

- Second Order Cone Programming (SOCP) [Mini Article](#), [Technical Poster](#) & [GitHub Examples](#)
- Derivative-free Optimization Solver for Calibration Problems [Technical Poster](#) & [Mini Article](#)
- Nearest Correlation Matrix [Technical Poster](#), [GitHub Examples](#) & [Mini Article](#)
- [Randomized Numerical Linear Algebra \(RNLA\) Algorithms](#)
- Non-negative Matrix Factorization for Analysing High-dimensional Datasets [Slide Deck](#) & [GitHub Examples](#)

The [NAG Fortran Compiler](#) is considered the world's bested checking Fortran Compiler, speeding your development of high quality compliant/portable Fortran code. It continues to progress and support the latest Fortran Standards available for Linux, Windows and Mac o/s and includes the Fortran Builder (GUI interface) on Windows.

Download the latest versions from [here](#)

## Available NAG Resources

- [Contacting NAG Technical Support](#);
- [Technical report repository](#) and [posters](#);
- [Webinar repository](#);
- [NAG Github](#) (includes lots of Python code examples and more);
- [NAGnews](#);
- [NAG Blog](#);
- NAG HPC consultants (*if included in your selected NAG package*).

### NAG continues to collaborate with academics

- NAG experts regularly visit education sites to deliver training for our products as well give non-product related HPC training courses such as MPI, OpenMP, Fortran and CUDA
- NAG is actively involved with several UK Universities with partnerships for KTPs, Doctoral Centres, MSc projects and more

NAG is a not for profit organisation with roots firmly planted in industrial, academic and research collaborations.

## Useful resources

### Available NAG Resources

- [Contacting NAG Technical Support](#);
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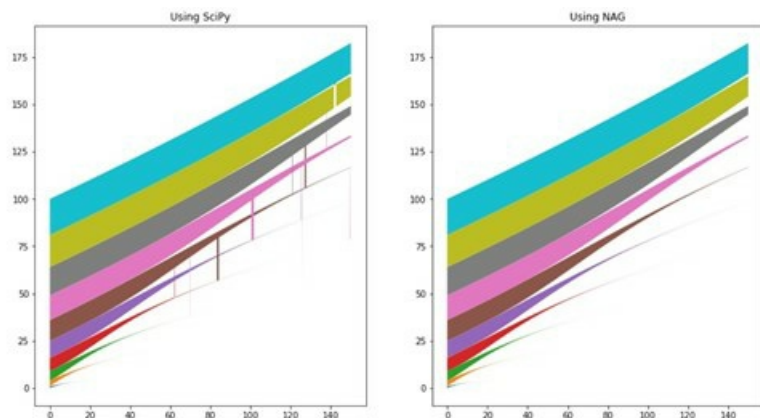
NAG is a not for profit organisation with roots firmly planted in industrial, academic and research collaborations.

## Mathieu Functions on the NAG Library demonstrating NAG's commitment to accuracy

NAG introduced **Mathieu functions** to the NAG Library at its recent update (Mark 27). Mathieu functions have a range of applications in the solution of problems involving elliptic structures including propagation within elliptical waveguides, the physics of capacitor microphones and scattering from dielectric elliptical cylinders.

Computing Mathieu functions accurately can be difficult and there are many papers on the subject. Here is a demonstration, taken from a [StackOverflow question](#), showing how Python's SciPy implementation occasionally struggles.

The NAG implementation computes the correct results as shown in the plot below



Learn more about this work on [GitHub](#), and for the NAG Library Mathieu function routine documentation [click here](#).

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## Service and Support

### Trials

Free 30 day evaluation trials are available. Please contact [Chest Help](#)

### Product Documentation

Product documentation may be downloaded from [here](#).

### Training and Training Materials

Product Training is available from NAG.

Sites licensing NAG Software under the 'GOLD' option are entitled to 1 or 2 days HPC and Software Training from NAG per year. The provision of such courses is subject to trainer availability and. Travel and subsistence costs are chargeable.

Details of current NAG Product Training and HPC and Software Training can be found [here](#).

### Technical Support

Sites holding site-wide licences are entitled to up to a maximum of twelve Technical Contacts.

Sites holding department licences are entitled to two Technical Contacts.

Telephone support will be provided by NAG to the designated Technical Contact(s) or his/her deputy(ies).

NAG Contact Details:

- Switchboard: 01865 511 245
- Technical Support: [support@nag.co.uk](mailto:support@nag.co.uk)

- Account Manager: Catherine Julian
- Phone: 01865 511245 (Direct Line)
- Fax: 01865 310139
- Email: [catherine.julian@nag.co.uk](mailto:catherine.julian@nag.co.uk)
- Address: The Numerical Algorithms Group Ltd  
Wilkinson House  
Jordan Hill Road  
Oxford  
OX2 8DR

On-site support will be provided, upon request. For current charges contact NAG. NAG will provide consultancy support, as requested on a chargeable basis.

The software is controlled by licence keys. New keys are issued by the NAG Response Centre [support@nag.co.uk](mailto:support@nag.co.uk)

## Supplier Web Address

Supplier home page: [www.nag.co.uk](http://www.nag.co.uk)

## System releases, new versions and functionality

One copy of system releases and/or new versions and/or new supporting documentation will be sent by NAG to Licensed Sites as and when they become commercially available.

## Platforms

Windows (32 and 64 bit), Linux (including 64-bit), Solaris, Mac OS X.

Hardware requirements are available from NAG.

## Method of delivery of product

Software is delivered via electronic download. The software is controlled by licence keys. New keys are issued by the NAG.

Response Centre [support@nag.co.uk](mailto:support@nag.co.uk).

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# Terms and Conditions

**The Chest Order, together with the Licence Terms and Conditions, and any exceptions listed below, create a legally binding contract between your institution, organisation or company and the Licensor. Therefore please read the terms and conditions carefully and only submit a Chest Order if its terms and conditions are acceptable to your institution, organisation or company and you have the authority to make the financial commitment shown.**

## Licence Type

This Site licence is subject to the terms and conditions for the [Standard Chest Licence for Software](#).

## Payment Terms

Licences are of three or five years duration, commencing 1 August 2020. Sites joining the agreement after this date may have their first year's fee pro-rated so that their anniversary date is August - in this instance please contact Chest Help.

**Sites licensed until 31 July 2023 can extend their licence for a further two years from 1 August 2023 to 31 July 2025.**

For the subsequent years, Sites will be invoiced three months in advance of the anniversary date of this Agreement (1 May).

**Chest is an Enterprise of Jisc. All Purchase orders must be made out to Jisc, 4 Portwall Lane, Bristol, BS1 6NB to cover all charges plus VAT.**

All terms contained in a PO are expressly rejected and do not form part of the Licence or vary the Licence terms in any way.

Payments are due within thirty days of invoice date; recipients of late payments are entitled to interest in accordance with **UK statutory provisions**.

## Termination Clauses

At the end of the Licence Period, unless a further Licence Period is entered into, Licensee must cease all use of the Licensed Product and de-install and destroy all copies in its possession.

## Location and Use Permissions

The product(s) may be used by any Authorised User of the Licensee for Educational Purposes which includes the administration and management of the licensee's educational and research operations. These permissions are described in the terms and conditions for the Standard Chest Licence for Software.

Students	Yes
Academic Staff	Yes
Non-Academic Staff	Yes
Administration and management	Yes
Staff home use rights	Yes
Student home use rights	Yes
Installation on Hosted Server	No

## Personal Licences

Home use licences are included for all staff and students.

## Products and Pricing

- Prices are in GBP and exclude VAT.
- Pricing is based on a per operating system model.
- Sites can choose to pay their licence fee annually or as a one-off fee.
- Sites can choose a three or five-year licence

There are three tables below, as follows:

- The first (NAG Options) allows you to tell us if you are ordering a Department licence instead of a campus licence, and if you are opting in to the Early Bird initiative. You do not need to tick either of these boxes if they are not relevant.
- The second (Operating Systems) allows you to tell us which OS you are ordering for. The number of OS you select here must correspond with the number in the product you order. Unless you are purchasing for all OS, you must tick the relevant boxes here.
- The third (Product and Pricing) allows you to select the product you require. Use the filters to help narrow the list down to what you are looking for.

Explanations of the first two of these points can be found at the bottom of this page.

**Payment terms and conditions are shown on the terms and Conditions tab**

If you prefer you can download and complete a [pdf version of the Order Form](#) and return it by email to [Chest Help](#).

## NAG Options

If you wish to take advantage of the Early Bird initiative, or are purchasing a department licence, please tick the appropriate box below before going on to order your licence in the table that follows. Please note, all orders for Early Bird must be received by 31 March, and all payments must be received by 30 April.

## Product Name

## Price

Department Option - Discounts applied

tba

Early Bird Option - up to 31 March 2020 - 5% Discount

tba

You still need to select your OS and the product you wish to purchase from the following tables.

## Operating systems

If you are ordering for one Operating System, please only tick one of the following boxes, if you are ordering for two please only tick two and so on.

## Operating System

## Price

Linux

not applicable

Mac

not applicable

Solaris

not applicable

Windows

not applicable

## Products

Please tick one of the below products. You can filter by Product, Number of Operating Systems, Term, Payment Terms

Product Name	OS	Term	Payment	20/21 (£)	21/22 (£)	22/23 (£)	23/24 (£)	24/25 (£)
Compiler	1	3 Years	Annual	1,660	1,660	1,660	-	-
Compiler	1	5 Years	Annual	1,530	1,530	1,530	1,530	1,530
Compiler	2	3 Years	Annual	2,690	2,690	2,690	-	-
Compiler	2	5 Years	Annual	2,510	2,510	2,510	2,510	2,510
Compiler	All	3 Years	Annual	3,000	3,000	3,000	-	-
Compiler	All	5 Years	Annual	2,840	2,840	2,840	2,840	2,840
Compiler & Library	1	3 Years	Annual	5,070	5,070	5,070	-	-
Compiler & Library	1	5 Years	Annual	4,470	4,470	4,470	4,470	4,470
Compiler & Library	2	3 Years	Annual	7,250	7,250	7,250	-	-
Compiler & Library	2	5 Years	Annual	6,760	6,760	6,760	6,760	6,760
Compiler & Library	3	3 Years	Annual	9,630	9,630	9,630	-	-
Compiler & Library	3	5 Years	Annual	8,940	8,940	8,940	8,940	8,940
Compiler & Library	All	3 Years	Annual	11,800	11,800	11,800	-	-
Compiler & Library	All	5 Years	Annual	11,120	11,120	11,120	11,120	11,120
Compiler & Library Gold	1	3 Years	Annual	6,020	6,020	6,020	-	-
Compiler & Library Gold	1	5 Years	Annual	5,420	5,420	5,420	5,420	5,420

Product Name	OS	Term	Payment	20/21 (£)	21/22 (£)	22/23 (£)	23/24 (£)	24/25 (£)
Compiler & Library Gold	2	3 Years	Annual	8,200	8,200	8,200	-	-
Compiler & Library Gold	2	5 Years	Annual	7,710	7,710	7,710	7,710	7,710
Compiler & Library Gold	3	3 Years	Annual	10,580	10,580	10,580	-	-
Compiler & Library Gold	3	5 Years	Annual	9,890	9,890	9,890	9,890	9,890
Compiler & Library Gold	All	3 Years	Annual	13,700	13,700	13,700	-	-
Compiler & Library Gold	All	5 Years	Annual	13,020	13,020	13,020	13,020	13,020
Complier Gold	1	3 Years	Annual	2,610	2,610	2,610	-	-
Complier Gold	1	5 Years	Annual	2,480	2,480	2,480	2,480	2,480
Complier Gold	2	3 Years	Annual	3,640	3,640	3,640	-	-
Complier Gold	2	5 Years	Annual	3,460	3,460	3,460	3,460	3,460
Complier Gold	All	3 Years	Annual	3,950	3,950	3,950	-	-
Complier Gold	All	5 Years	Annual	3,790	3,790	3,790	3,790	3,790
Library	1	3 Years	Annual	4,040	4,040	4,040	-	-
Library	1	5 Years	Annual	3,710	3,710	3,710	3,710	3,710
Library	2	3 Years	Annual	6,000	6,000	6,000	-	-
Library	2	5 Years	Annual	5,670	5,670	5,670	5,670	5,670
Library	3	3 Years	Annual	8,070	8,070	8,070	-	-
Library	3	5 Years	Annual	7,520	7,520	7,520	7,520	7,520
Library	All	3 Years	Annual	9,940	9,940	9,940	-	-
Library	All	5 Years	Annual	9,270	9,270	9,270	9,270	9,270
Library Gold	1	3 Years	Annual	4,990	4,990	4,990	-	-
Library Gold	1	5 Years	Annual	4,660	4,660	4,660	4,660	4,660
Library Gold	2	3 Years	Annual	6,950	6,950	6,950	-	-
Library Gold	2	5 Years	Annual	6,620	6,620	6,620	6,620	6,620
Library Gold	3	3 Years	Annual	9,620	9,620	9,620	-	-
Library Gold	3	5 Years	Annual	8,470	8,470	8,470	8,470	8,470
Library Gold	All	3 Years	Annual	11,840	11,840	11,840	-	-
Library Gold	All	5 Years	Annual	11,170	11,170	11,170	11,170	11,170
Compiler	1	3 Years	One-off	4,640	-	-	-	-
Compiler	1	5 Years	One-off	6,890	-	-	-	-
Compiler	2	3 Years	One-off	7,540	-	-	-	-

Product Name	OS	Term	Payment	20/21 (£)	21/22 (£)	22/23 (£)	23/24 (£)	24/25 (£)
Compiler	2	5 Years	One-off	11,300	-	-	-	-
Compiler	All	3 Years	One-off	8,410	-	-	-	-
Compiler	All	5 Years	One-off	12,780	-	-	-	-
Compiler & Library	1	3 Years	One-off	14,200	-	-	-	-
Compiler & Library	1	5 Years	One-off	20,120	-	-	-	-
Compiler & Library	2	3 Years	One-off	20,290	-	-	-	-
Compiler & Library	2	5 Years	One-off	30,420	-	-	-	-
Compiler & Library	3	3 Years	One-off	26,960	-	-	-	-
Compiler & Library	3	5 Years	One-off	40,230	-	-	-	-
Compiler & Library	All	3 Years	One-off	33,040	-	-	-	-
Compiler & Library	All	5 Years	One-off	50,040	-	-	-	-
Compiler & Library Gold	1	3 Years	One-off	17,050	-	-	-	-
Compiler & Library Gold	1	5 Years	One-off	24,870	-	-	-	-
Compiler & Library Gold	2	3 Years	One-off	23,140	-	-	-	-
Compiler & Library Gold	2	5 Years	One-off	35,170	-	-	-	-
Compiler & Library Gold	3	3 Years	One-off	29,810	-	-	-	-
Compiler & Library Gold	3	5 Years	One-off	44,980	-	-	-	-
Compiler & Library Gold	All	3 Years	One-off	38,740	-	-	-	-
Compiler & Library Gold	All	5 Years	One-off	59,540	-	-	-	-
Complier Gold	1	3 Years	One-off	7,490	-	-	-	-
Complier Gold	1	5 Years	One-off	11,640	-	-	-	-
Complier Gold	2	3 Years	One-off	10,390	-	-	-	-
Complier Gold	2	5 Years	One-off	16,050	-	-	-	-
Complier Gold	All	3 Years	One-off	11,260	-	-	-	-
Complier Gold	All	5 Years	One-off	17,530	-	-	-	-
Library	1	3 Years	One-off	11,310	-	-	-	-
Library	1	5 Years	One-off	16,700	-	-	-	-
Library	2	3 Years	One-off	16,810	-	-	-	-
Library	2	5 Years	One-off	25,520	-	-	-	-
Library	3	3 Years	One-off	22,610	-	-	-	-
Library	3	5 Years	One-off	33,840	-	-	-	-



Product Name	OS	Term	Payment	20/21 (£)	21/22 (£)	22/23 (£)	23/24 (£)	24/25 (£)
Library	All	3 Years	One-off	27,830	-	-	-	-
Library	All	5 Years	One-off	41,720	-	-	-	-
Library Gold	1	3 Years	One-off	14,160	-	-	-	-
Library Gold	1	5 Years	One-off	21,450	-	-	-	-
Library Gold	2	3 Years	One-off	19,660	-	-	-	-
Library Gold	2	5 Years	One-off	30,270	-	-	-	-
Library Gold	3	3 Years	One-off	25,460	-	-	-	-
Library Gold	3	5 Years	One-off	38,590	-	-	-	-
Library Gold	All	3 Years	One-off	33,530	-	-	-	-
Library Gold	All	5 Years	One-off	51,220	-	-	-	-

### Department Licences

Institutions may choose to purchase a Department rather than a Site Licence by ticking the appropriate below box

- **A single operating system** Department Licence is 60% of the single operating system site licence fee
- **Two or more operating systems** Department Licence is 50% of the relevant multi-operating system site licence fee.

### Early Bird

The Early Bird initiative allows sites to enjoy 5% off these prices, subject to them submitting their initial order by the 31 March and payment being received by Jisc by the 30 April. In future years Early Bird sites will be invoiced in February and payment must be received by 30 April, otherwise sites will be re-invoiced for the full (non Early Bird) price

### Operating Systems

When ordering your product you will select the number of Operating Systems you require. Please use the below table to select the specific Operating Systems you are ordering for. Please be sure the number you select in the OS table corresponds with the number in your product order.

Commercial in confidence

Operating address: Chest (a Jisc Enterprise), 4 Portwall Lane, Bristol. BS1 6NB email:help@chest.ac.uk tel:0300 121 0878

Jisc (Registered Office), 4 Portwall Lane , Bristol, BS1 6NB | Charity No. 1149740 | Company No. 5747339