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Fortran (/ ? f ??r t r æ n /; formerly FORTRAN, derived from Formula Translation) is a general-purpose, compiled imperative programming language that is especially suited to numeric computation and scientific

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computing.. Originally developed by IBM in the 1950s for scientific and engineering applications, FORTRAN came to subsequently dominate scientific computing.

[Fortran - Wikipedia](#)

We are numerical.recipes, Numerical Recipes Software. We are one of the oldest continuously operating sites on the Web, with the historic former domain nr.com dating back to 1993, one of the first 25,000 domains in the Internet. (Today, that number is about 200,000,000.)

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www.numerical.recipes

QUADPACK is a FORTRAN 77 library for numerical integration of one-dimensional functions; SLATEC is a FORTRAN 77 library of over 1400 general purpose mathematical and statistical routines. SOFA is a collection of subroutines that implement official IAU algorithms for astronomical computations. Both Fortran and C versions are available.

[List of numerical libraries - Wikipedia](#)

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These Second Edition versions of Numerical Recipes in C, Fortran 77, and Fortran 90 are no longer in print or supported, but are made available here for users with legacy code. Numerical Recipes in C, Second Edition (1992) free, in our bookreader format.

[Numerical Recipes Books On-Line](#)

Original versions, Fortran I, II and III are considered obsolete now. Oldest version still in use is Fortran IV, and Fortran 66. Most commonly used versions today are : Fortran 77, Fortran 90, and Fortran 95. Fortran 77

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added strings as a distinct type. Fortran 90 added various sorts of threading, and direct array processing.

[Fortran - Overview - Tutorialspoint](#)

The following functions from Fortran 77 can use a kind-parameter like in `AINT(A, kind)`, namely `AINT`, `ANINT`, `CMPLX`, `INT`, `NINT` and `REAL`. A historic fact is that the numerical functions in Fortran 66 had to have specific (different) names in different precisions, and these explicit names are still the only ones which can be used when a function ...

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[Intrinsic functions in Fortran 90](#)

6) Numerical Math: Common reason cite by scientific programmers is that this book cover math. The truth is it doesn't. This is more like "How to write brilliant algorithms in horrible c++ for Numerical Mathematicians." If you know the theory and find it difficult to express it in code, you will appreciate this one.

[Numerical Recipes 3rd Edition: The Art of Scientific ...](#)

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FORTTRAN is an acronym for "FORMula TRANslation", and is best suited for mathematical and numerical applications rather than graphics or database applications. Most fortran codes take text input from a file or command-line rather than from a menu or GUI interface. ... This is one for Fortran 77 and this is one for Fortran 90/95.

[How to Program in Fortran \(with Pictures\) - wikiHow](#)

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Fortran ist eine prozedurale, seit 2003 auch eine objektorientierte Programmiersprache, die insbesondere für numerische Berechnungen in Wissenschaft, Technik und Forschung eingesetzt wird. Der Name entstand aus FORMula TRANslation und wurde bis zur Version FORTRAN 77 mit Großbuchstaben geschrieben.

[Fortran - Wikipedia](#)

The IMSL 2018 Fortran Numerical Libraries are a complete collection of mathematical and statistical algorithms which integrates the world-renowned IMSL Fortran 90 and Fortran 77

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Math and Statistics libraries into a single, cohesive package. Absoft Exclusive For Windows Customers: GINO GUI Builder For Fortran

[Windows Fortran Compiler Suite - Absoft](#)

"Intel Fortran Compiler outperforms GNU Fortran (GFortran) by more than 40 percent when testing various scenarios on the complex Stokes Inversion based on Response functions (SIR) numerical code on Ubuntu Linux*.

Numerical results were identical between the two compilers, and saved me precious time and

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effort."

[Intel® Fortran Compiler](#)

This page lists free Fortran compilers for various operating systems. Note that the different software listed are compliant with different Fortran standards, eg, ANSI Fortran 77, Fortran 95, Fortran 2003, Fortran 2008, Fortran 2018, and so on, so be sure to get the appropriate one for your purpose.

[Free Fortran Compilers \(thefreecountry.com\)](#)

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Fortran has over a dozen open source and commercial compilers. Open source compilers GNU Fortran Compiler. GNU Fortran Compiler (gfortran) is a mature free and open source compiler, part of the GNU Compiler Collection. OpenCoarrays is a library and compiler wrapper around gfortran which enables the parallel programming features of Fortran 2018 with gfortran.

[Fortran Compilers - Fortran Programming Language](#)

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(1977) Numerical Integration of the Cartesian Equations of Motion of a System with Constraints: Molecular Dynamics of n-Alkanes
JEAN-PAUL RYCKAERT*, GIOVANNI CICCOTTI^, AND HERMAN J. C. BERENDSEN* Centre Europen de Calcul Atomique et Molulaire (CECAM), Biment 506, Universitde Paris XI, 91405 Orsay, France Received July 19, 1976 A numerical algorithm ...

[Numerical integration of the cartesian equations of motion ...](#)

A computer is a machine that can be

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programmed to carry out sequences of arithmetic or logical operations automatically. Modern computers can perform generic sets of operations known as programs. These programs enable computers to perform a wide range of tasks. A computer system is a "complete" computer that includes the hardware, operating system (main software), and peripheral equipment ...

[Computer - Wikipedia](#)

??FORTRAN?? formula translation

?????FORTRAN 77?Fortran

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90??? ... "Modern Fortran Explained" (Numerical Mathematics and Scientific Computation) (4th Ed.)?Oxford Univ Press?ISBN978-0199601417?(2011?5?19??? ...

[FORTRAN - Wikipedia](#)

Calling modern Fortran (Fortran 90+) 'old' is like calling C++ old because C was first developed around 1973. On the other hand, even the most modern Fortran standard (2008) retains backwards compatibility to Fortran 77 and most of Fortran 66. In this sense the continued usefulness of Fortran is a

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challenge to computer scientists.

[Why physicists still use Fortran](#)

NumPy (numerical python) is a module which was created allow efficient numerical calculations on multi-dimensional arrays of numbers from within Python. It is derived from the merger of two earlier modules named Numeric and Numarray. The actual work is done by calls to routines written in the Fortran and C languages.

[Numerical calculations with NumPy](#)

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9. Numerical Routines: SciPy and NumPy¶. SciPy is a Python library of mathematical routines. Many of the SciPy routines are Python "wrappers", that is, Python routines that provide a Python interface for numerical libraries and routines originally written in Fortran, C, or C++.

[9. Numerical Routines: SciPy and NumPy - PyMan 0.9.31 ...](#)

File names ending in .f90 and .f95 are assumed to be free source form - suitable for

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Fortran 90/95 compilation. File names ending in .f and .for are assumed to be assumed fixed form source - compatible with old Fortran 77 compilation. 3. Compiling a program The role of g95 Fortran compiler is to compile your Fortran source code into an ...

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