

Number Field Sieve

An extremely fast factorization method developed by Pollard which was used to factor the [RSA-130 number](#). This method is the most powerful known for factoring general numbers, and has complexity

$$O\left\{\exp\left[c(\log n)^{1/3}(\log\log n)^{2/3}\right]\right\}, \quad (1)$$

reducing the exponent over the [continued fraction factorization algorithm](#) and [quadratic sieve](#). There are three values of c relevant to different flavors of the method (Pomerance 1996). For the "special" case of the algorithm applied to numbers near a large [power](#),

$$c = \left(\frac{32}{9}\right)^{1/3} = 1.526285 \dots, \quad (2)$$

for the "general" case applicable to any [odd positive](#) number which is not a [power](#),

$$c = \left(\frac{64}{9}\right)^{1/3} = 1.922999 \dots, \quad (3)$$

and for a version using many [polynomials](#) (Coppersmith 1993),

Number Field Sieve

Arjen K. Lenstra, Hendrik W. Jr. Lenstra



Number Field Sieve:

The Development of the Number Field Sieve Arjen K. Lenstra, H. W. Lenstra, 1993-08-30 The number field sieve is an algorithm for finding the prime factors of large integers It depends on algebraic number theory Proposed by John Pollard in 1988 the method was used in 1990 to factor the ninth Fermat number a 155 digit integer The algorithm is most suited to numbers of a special form but there is a promising variant that applies in general This volume contains six research papers that describe the operation of the number field sieve from both theoretical and practical perspectives Pollard's original manuscript is included In addition there is an annotated bibliography of directly related literature Pollard's Number Field Sieve Alexander Shaumyan, 1998 The Number Field Sieve has revolutionized the field of computational number theory and enabled researchers to factor very large integers a task which seemed insurmountable with the best computers and the best factorization techniques that were available a few years earlier We'll illustrate how the Number Field Sieve works using various examples of factorizations in different number fields We'll also see how the method can be extended to factor any integer m not just a special m which can be written in the form $m = r^2 S$ for which the original algorithm was developed We'll look at the modified version of the Number Field Sieve known as the General Number Field Sieve GNFS and look at an example of a number factored with GNFS But in order to understand the process we need to introduce the concepts of algebraic number fields and algebraic numbers **The Development of the Number Field Sieve** Arjen K.

Lenstra, Hendrik W. Jr. Lenstra, 1993-08-30 The number field sieve is an algorithm for finding the prime factors of large integers It depends on algebraic number theory Proposed by John Pollard in 1988 the method was used in 1990 to factor the ninth Fermat number a 155 digit integer The algorithm is most suited to numbers of a special form but there is a promising variant that applies in general This volume contains six research papers that describe the operation of the number field sieve from both theoretical and practical perspectives Pollard's original manuscript is included In addition there is an annotated bibliography of directly related literature The Number Field Sieve Johnny Bigert, 2000 The Development of the Number Field Sieve Arjen K. Lenstra, Hendrik W. Jr. Lenstra, 2014-01-15 **Number-Theoretic Algorithms in**

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the proceedings of the two international conferences on Number Theory and Cryptography held at the Harish Chandra Research Institute In recent years the interest in number theory has increased due to its applications in areas like error correcting codes and cryptography These proceedings contain papers in various areas of number theory such as combinatorial algebraic analytic and transcendental aspects arithmetic algebraic geometry as well as graph theory and cryptography While some papers do contain new results several of the papers are expository articles that mention open questions which will be useful to young researchers *Summary of the Number Field Sieve* Michael Peterson, 2004

Factoring Integers with the Number Field Sieve Reina-Marije Elkenbracht-Huizing, 1997 Zsfassung in niederl nd Sprache **Algorithmic Number Theory** Joe P. Buhler, 1998-06-05 The field of diagnostic nuclear medicine has changed significantly during the past decade This volume is designed to present the student and the professional with a comprehensive update of recent developments not found in other textbooks on the subject The various clinical applications of nuclear medicine techniques are extensively considered and due attention is given also to radiopharmaceuticals equipment and instrumentation reconstruction techniques and the principles of gene imaging **Minds, Machines, and the Multiverse** Julian Brown, 2002-04-05 The imminent arrival of the quantum computer millions of times faster than today s computers promises to launch a scientific gold rush of the new millennium After consulting with both the computer s debunkers and the leading minds behind the breakthrough Brown explains the quantum computer s development thus far

Cryptography and Secure Communication Richard E. Blahut, 2014-03-27 This fascinating book presents the timeless mathematical theory underpinning cryptosystems both old and new written specifically with engineers in mind Ideal for graduate students and researchers in engineering and computer science and practitioners involved in the design of security systems for communications networks **An Implementation of the Number Field Sieve** R. M. Huizing, 1995 Abstract The Number Field Sieve NFS is the asymptotically fastest known factoring algorithm for large integers Ths article describes an implementation of the NFS including the choice of two quadratic polynomials both classical and lattice sieving the block Lanczos method and a new square root algorithm Finally some data on factorizations obtained with this implementation are listed including the record factorization of 12151 1 **Handbook of Applied Cryptography** Alfred J. Menezes, Paul C. van Oorschot, Scott A. Vanstone, 2018-12-07 Cryptography in particular public key cryptography has emerged in the last 20 years as an important discipline that is not only the subject of an enormous amount of research but provides the foundation for information security in many applications Standards are emerging to meet the demands for cryptographic protection in most areas of data communications Public key cryptographic techniques are now in widespread use especially in the financial services industry in the public sector and by individuals for their personal privacy such as in electronic mail This Handbook will serve as a valuable reference for the novice as well as for the expert who needs a wider scope of coverage within the area of cryptography It is a necessary and timely guide for professionals who practice the art of cryptography The Handbook

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Algorithmic Number Theory Alf J. van der Poorten, Andreas Stein, 2008-04-25. This book constitutes the refereed proceedings of the 8th International Algorithmic Number Theory Symposium ANTS 2008 held in Banff, Canada, in May 2008. The 28 revised full papers presented together with 2 invited papers were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on elliptic curves, cryptology and generalizations, arithmetic of elliptic curves, integer factorization, K3 surfaces, number fields, point counting, arithmetic of function fields, modular forms, cryptography and number theory.

Biscuits of Number Theory Arthur T. Benjamin, Ezra Brown, 2020-07-29. An anthology of articles designed to supplement a first course in number theory.

Algebraic Number Theory Richard A. Mollin, 2011-01-05. Bringing the material up to date to reflect modern applications, this second edition has been completely rewritten and reorganized to incorporate a new style methodology and presentation. It offers a more complete and involved treatment of Galois theory, a more comprehensive section on Pollard's cubic factoring algorithm, and more detailed explanations of proofs to provide a sound understanding of challenging material. This edition also studies binary quadratic forms and compares the ideal and form class groups. The text includes convenient cross referencing, a comprehensive index, and numerous exercises and applications.

A Look at the Special Number Field Sieve Using Ideals as Implementable in the Magma Computational Algebra Software System, 2011. The security of RSA, the most well known and widely used public cryptographic system, nowadays rests on the presumption that factoring integers either cannot be done efficiently or at least nobody knows how to do it efficiently; that is, by a polynomial time algorithm. With the ever increasing need to secure information that travels on the Internet, the problem of factoring has been the focus of attention of researchers throughout the world, professional and amateur alike. This thesis is about the Special Number Field Sieve (SNFS), one of the best algorithms in the literature for factoring large integers. The algorithm is designed to factor positive integers n of the form $r^t s$ where r , t , and s are known. It is called the SNFS because it does part of the work in an algebraic number field $\mathbb{Q}(\alpha)$ where $\mathbb{Q}$ is the field of rational numbers and α is a root of an irreducible monic integral polynomial f determined from n . In 1990, Lenstra, Lenstra, Manasse, and Pollard factored the ninth Fermat number $F_9 = 2^{2^9} + 1$, a 155 digit integer, using the SNFS. However, they used a trick to stay out of $\mathbb{Q}(\alpha)$ and

work in $\mathbb{Z}$ the integer ring Instead of directly using the principal ideals $\langle \beta \rangle$ with β a b α ϵ $\mathbb{Z}$ α to generate an algebraic number field factor basis they used a one to one correspondence existing between β and the pair p, r where $\alpha \equiv 0 \pmod{p}$ Here p is prime not exceeding B the smoothness bound For the sieve to find smooth relations b the norm is computed as $N(\alpha b \alpha^d c b^d)$ The factorization of this is done by each of the pairs p, r in the factor basis by testing if $\alpha \equiv 0 \pmod{p}$ While it holds keep dividing the norm by p then move to the next pair The use of quadratic characters is also introduced to assist in determining perfect squares in $\mathbb{Z}$ α The contribution of this work is to show that by using the power of the MAGMA Computational Algebra System to work directly with ideals in an algebraic number field the above tricks are not necessary This thesis demonstrates the direct correlation between the rational and algebraic parts of the SNFS algorithm A different sieving procedure is also implemented

Algorithmic Number Theory Claus Fieker, David R. Kohel, 2003-08-02 This book constitutes the refereed proceedings of the 5th International Algorithmic Number Theory Symposium ANTS V held in Sydney Australia in July 2002 The 34 revised full papers presented together with 5 invited papers have gone through a thorough round of reviewing selection and revision The papers are organized in topical sections on number theory arithmetic geometry elliptic curves and CM point counting cryptography function fields discrete logarithms and factoring Groebner bases and complexity

Algorithmic Number Theory Henri Cohen, 1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding

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