# Report on the Development of the Advanced Encryption Standard (AES)

James Nechvatal, Elaine Barker, Lawrence Bassham, William Burr, Morris Dworkin, James Foti, Edward Roback

Computer Security Division Information Technology Laboratory National Institute of Standards and Technology Technology Administration U.S. Department of Commerce

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#### Abstract:

In 1997, the National Institute of Standards and Technology (NIST) initiated a process to select a symmetric-key encryption algorithm to be used to protect sensitive (unclassified). Federal information in furtherance of NIST's statutory responsibilities. In 1998, NIST announced the acceptance of fifteen candidate algorithms and requested the assistance of the cryptographic research community in analyzing the candidates. This analysis included an initial examination of the security and efficiency characteristics for each algorithm. NIST reviewed the results of this preliminary research and selected MARS, RC6<sup>TM</sup>, Rijndael, Serpent and Twofish as finalists. Having reviewed further public analysis of the finalists, NIST has decided to propose Rijndael as the Advanced Encryption Standard (AES). The research results and rationale for this selection are documented in this report.

Key words: Advanced Encryption Standard (AES), cryptography, cryptanalysis, cryptographic algorithms, encryption, Rijndael.





# Report On The Development Of The Advanced Encryption Standard Aes

Cetin K. Koc, David Nacchae, Christof
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#### **Report On The Development Of The Advanced Encryption Standard Aes:**

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Cryptographic Hardware and Embedded Systems - CHES 2002 Burton S. Jr. Kaliski, Cetin K. Koc, Christof Paar, 2003-08-02 These are the proceedings of CHES 2002 the Fourth Workshop on Cryptographic Hardware and Embedded Systems After the rst two CHES Workshops held in Massachusetts and the third held in Europe this is the rst Workshop on the West Coast of the United States There was a record number of submissions this year and in response the technical program was extended to 3 days As is evident by the papers in these proceedings there have been again many excellent submissions Selecting the papers for this year s CHES was not an easy task and we regret that we could not accept many contributions due to the limited availability of time There were 101 submissions this year of which 39 were selected for presentation We continue to observe a steady increase over previous years 42 submissions at CHES 99 51 at CHES 2000 and 66 at CHES 2001 We interpret this as a continuing need for a workshop series that c bines theory and practice for integrating strong security features into modern communications and computer applications. In addition to the submitted cont butions Jean Jacques Quisquater UCL Belgium Sanjay Sarma MIT USA and a panel of experts on hardware random number generation gave invited talks As in the previous years the focus of the Workshop is on all aspects of cr tographic hardware and embedded system security Of special interest were c tributionsthatdescribenewmethodsfore cienthardwareimplementations and high speed software for embedded systems e g smart cards microprocessors DSPs etc CHES also continues to be an important forum for new theoretical and practical ndings in the important and growing eld of side channel attacks <u>UMTS Security</u> Valtteri Niemi, Kaisa Nyberg, 2006-02-08 Can you afford not to read this book The Universal Mobile Telecommunication System UMTS offers a consistent set of services to mobile computer and phone users and numerous different radio access technologies will co exist within the UMTS system s core network security is therefore of the utmost importance UMTS Security focuses on the standardized security features of UMTS and brings together material previously only available in specifications design documents and presentations in one concise form In addition this unique volume also covers non standard implementation specific features that allow differentiation between operators and manufacturers Describes the security solutions specified for UMTS Provides a comprehensive presentation of the UMTS security specifications and explains the role of the security functionality in the UMTS system Presents the UMTS security system in its totality from the theoretical background through to the design process Discusses the new security features included in Release 4 and 5 By providing a unified treatment of the security services provided by the UMTS system this volume will provide invaluable information and have instant appeal to planners constructers and implementers of UMTS networks and developers and analysts of application oriented security services that make use of UMTS communication networks It will also be of considerable interest to postgraduates and researchers of modern communication security technology Cryptographic Hardware and Embedded Systems - CHES 2001 Cetin K. Koc, David Nacchae, Christof Paar, 2003-06-30 These are the proceedings of CHES 2001 the third Workshop on Cryptographic Hardware and Embedded

Systems The rst two CHES Workshops were held in Massachusetts and this was the rst Workshop to be held in Europe There was a large number of submissions this year and in response the technical program was extended to 2 1 2 days As is evident by the papers in these proceedings many excellent submissions were made Selecting the papers for this year's CHES was not an easy task and weregretthatwehadtorejectseveralveryinterstingpapersduetotheac l kof time There were 66 submitted contributions this year of which 31 or 47% were selected for presentation If we look at the number of submitted papers at CHES 99 42 papers and CHES 2001 51 papers we observe a steady increase We interpret this as a continuing need for a workshop series which combines theory and practice for integrating strong security features into modern communications and computer applications In addition to the submitted contributions Ross Anderson from Cambridge University UK and Adi Shamir from The Weizmann Institute Israel gave invited talks As in previous years the focus of the workshop is on all aspects of cryp graphichardwareandembeddedsystemdesign Ofspecialinterestwerecont butions that describe new methods for e cient hardware implementations and high speed software for embedded systems e.g. smart cards microprocessors DSPs etc CHES also continues to be an important forum for new theoretical and practical ndingsintheimportant and growing eldofside channelattacks Cryptography and Security Services: Mechanisms and Applications Mogollon, Manuel, 2008-01-31 Addresses cryptography from the perspective of security services and mechanisms available to implement them Discusses issues such as e mail security public key architecture virtual private networks Web services security wireless security and confidentiality and integrity Provides a working knowledge of fundamental encryption algorithms and systems supported in information technology and secure communication networks Proceedings of the International Conference on Soft Computing for Problem Solving (SocProS 2011) December 20-22, 2011 Kusum Deep, Atulya Nagar, Millie Pant, Jagdish Chand Bansal, 2012-04-13 The objective is to provide the latest developments in the area of soft computing These are the cutting edge technologies that have immense application in various fields All the papers will undergo the peer review process to maintain the quality of work Cryptography and Satellite Navigation Joseph J. Rushanan, James T. Gillis, 2024-12-31 Cryptography and Satellite Navigation is a comprehensive guide that offers a wide ranging yet approachable introduction to the world of cryptography with a particular focus on its role in navigation In an increasingly connected world cryptography serves as the cornerstone of secure communication safeguarding information across countless cyber and navigation applications The book includes a thorough explanation of the three primary cryptographic methods Symmetric ciphers provide confidentiality through shared keys while hashes play a crucial role in ensuring the integrity of information Asymmetric or public key cryptography introduces a level of security through confidentiality and authentication uniquely using private information to establish digital signatures The book contains an insightful exploration of quantum computing and its profound implications for the future of cryptography This book also delves into the practical application of cryptographic methods through cryptographic protocols essential for the seamless functioning of everyday life With real

world examples like the Galileo navigation system the book demonstrates how digital signatures safeguard navigation data while symmetric ciphers and hashing extend beyond traditional data protection to ensure the authenticity of navigation signals This book provides valuable insights into the essential role of cryptography in both cyber and navigation domains preparing its reader for the challenges of a rapidly evolving technological landscape whether the reader is a seasoned professional or new to the field Research and Applications of Digital Signal Processing Joceli Mayer, Malek Karaim, Aboelmagd Noureldin, 2025-09-03 This comprehensive volume explores cutting edge developments in digital signal processing across diverse applications Covering four key areas including image processing and computer vision deep learning integration signal processing analysis and hardware implementation the book presents innovative research ranging from multispectral imaging and medical MRI reconstruction to speech emotion recognition and underwater acoustics Each chapter demonstrates practical applications of DSP techniques bridging theoretical foundations with real world solutions in healthcare infrastructure monitoring financial systems and control engineering We hope this book will become an essential reading for researchers engineers and practitioners seeking to understand contemporary DSP challenges and emerging Information Security and Cryptology - ICISC 2002 Pil Joong Lee, Chae Hoon Lim, 2003-02-24 This book methodologies constitutes the thoroughly refereed post proceedings of the 5th International Conference on Information Security and Cryptology ICISC 2002 held in Seoul Korea in November 2002 The 35 revised full papers presented together with an invited paper were carefully selected from 142 submissions during two rounds of reviewing and improvement The papers are organized in topical sections on digital signatures Internet security block ciphers and stream ciphers stream ciphers and other primitives efficient implementations side channel attacks cryptographic protocols and biometrics

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