

64-bit plaintext

DES

Initial permutation

Round 1

Round 2

⋮

Round 16

Final permutation

K_1

48-bit

K_2

48-bit

⋮

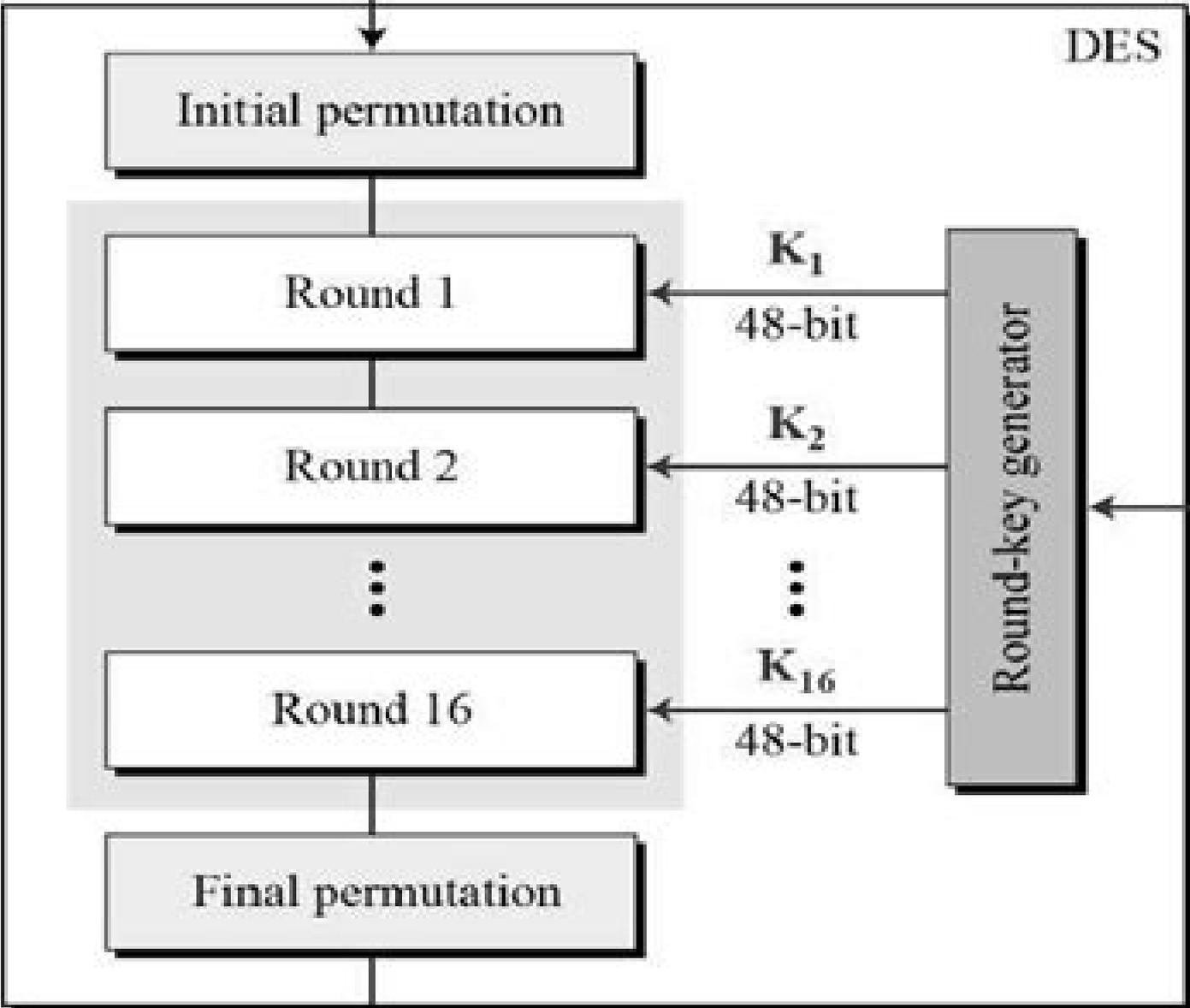
K_{16}

48-bit

Round-key generator

56-bit cipher key

64-bit ciphertext



The Standard Data Encryption Algorithm

**American National Standards
Institute, Computer and Business
Equipment Manufacturers Association**



The Standard Data Encryption Algorithm:

The Standard Data Encryption Algorithm Harry Katz, 1977 **Data Encryption Standard (DES)**, 1999 The selective application of technological and related procedural safeguards is an important responsibility of every Federal organization in providing adequate security to its electronic data systems This publication specifies two cryptographic algorithms the Data Encryption Algorithm DEA and the Triple Data Encryption Algorithm TDEA which may be used by Federal organizations to protect sensitive data Protection of data during transmission or while in storage may be necessary to maintain the confidentiality and integrity of the information represented by the data The algorithms uniquely define the mathematical steps required to transform data into a cryptographic cipher and also to transform the cipher back to the original form The Data Encryption Standard is being made available for use by Federal agencies within the context of a total security program consisting of physical security procedures good information management practices and computer system network access controls This revision supersedes FIPS 46-2 in its entirety **American National Standard**, 1981 *Computer Security and the Data Encryption Standard*, 1978 **Data Encryption Standard** United States. National Bureau of Standards, 1988

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