DES

The Data Encryption standard (DES) is a symmetric-key block cipher published by the National Institute of Standards · Technology (NIST). DES is an implementation of a Feistel Cipher. 9t uses 16 round Foist Structe. The block size is 64-bit. Though the key length is 64-bit, DES has an effective key length of 56 bits,

Since 8 of the 64.

bits of the key are not will by the encryption algorith.

I function as cheek bits only)

Openeral Structure of DES is depicted in following illustrations in hext page.

64-bit plaintest Initial permutation Round 1 Rounda permutation 64-bit Ciphertext Since DES is based on the Fiestel Cipher, all that is to specify DES is • (1) Royard frunction

(3) Any aditional processing - Initial & final

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