```
##################################################################

  Block Cipher Modes of Operation

      Electronic Codebook (ECB)

##################################################################

ECB-TDES (Encryption)
------------------------------------------------------------------

Key1 is
    01234567 89ABCDEF
Key2 is
    23456789 ABCDEF01
Key3 is
    01234567 89ABCDEF
Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51

Block #1
Blockin   6BC1BEE2 2E409F96
  TDES_Core:  BlockIn   6BC1BEE2 2E409F96
  DES:      BlockOut1   7277A00D C1C1C36B
  DES:      BlockOut2   F6C18AF6 58CC11D5
  TDES_Core: BlockOut   06EDE3D8 2884090A
Blockout  06EDE3D8 2884090A

Block #2
Blockin   E93D7E11 7393172A
  TDES_Core:  BlockIn   E93D7E11 7393172A
  DES:      BlockOut1   2256338B 7A9F36EF
  DES:      BlockOut2   26026E68 9C91B1B5
  TDES_Core: BlockOut   FF322C19 F0518486
Blockout  FF322C19 F0518486

Block #3
Blockin   AE2D8A57 1E03AC9C
  TDES_Core:  BlockIn   AE2D8A57 1E03AC9C
  DES:      BlockOut1   6E511022 CFEBEC48
  DES:      BlockOut2   8C6358D8 90CF31DF
  TDES_Core: BlockOut   73057697 2A666E58
Blockout  73057697 2A666E58
```

```
Block #4
Blockin   9EB76FAC 45AF8E51
  TDES_Core:  BlockIn   9EB76FAC 45AF8E51
  DES:      BlockOut1   9A4A53A1 C7D22E5B
  DES:      BlockOut2   D9CE8344 2D0FA499
  TDES_Core: BlockOut   B6C88CF1 07340D3D
Blockout  B6C88CF1 07340D3D


Ciphertext is
    06EDE3D8 2884090A FF322C19 F0518486
    73057697 2A666E58 B6C88CF1 07340D3D

================================================================

ECB-TDES128 (Decryption)
----------------------------------------------------------------

Key1 is
    01234567 89ABCDEF
Key2 is
    23456789 ABCDEF01
Key3 is
    01234567 89ABCDEF

Ciphertext is
    06EDE3D8 2884090A FF322C19 F0518486
    73057697 2A666E58 B6C88CF1 07340D3D

Block #1
Blockin   06EDE3D8 2884090A
  TDES_Core:  BlockIn   06EDE3D8 2884090A
  DES:      BlockOut1   F6C18AF6 58CC11D5
  DES:      BlockOut2   7277A00D C1C1C36B
  TDES_Core: BlockOut   6BC1BEE2 2E409F96
Blockout  6BC1BEE2 2E409F96

Block #2
Blockin   FF322C19 F0518486
  TDES_Core:  BlockIn   FF322C19 F0518486
  DES:      BlockOut1   26026E68 9C91B1B5
  DES:      BlockOut2   2256338B 7A9F36EF
  TDES_Core: BlockOut   E93D7E11 7393172A
Blockout  E93D7E11 7393172A

Block #3
```

```
Blockin   73057697 2A666E58
  TDES_Core:  BlockIn   73057697 2A666E58
  DES:      BlockOut1   8C6358D8 90CF31DF
  DES:      BlockOut2   6E511022 CFEBEC48
  TDES_Core: BlockOut   AE2D8A57 1E03AC9C
Blockout  AE2D8A57 1E03AC9C

Block #4
Blockin   B6C88CF1 07340D3D
  TDES_Core:  BlockIn   B6C88CF1 07340D3D
  DES:      BlockOut1   D9CE8344 2D0FA499
  DES:      BlockOut2   9A4A53A1 C7D22E5B
  TDES_Core: BlockOut   9EB76FAC 45AF8E51
Blockout  9EB76FAC 45AF8E51


Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51

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################################################################

  Block Cipher Modes of Operation

      Electronic Codebook (ECB)

################################################################

ECB-TDES (Encryption)
----------------------------------------------------------------

Key1 is
    01234567 89ABCDEF
Key2 is
    23456789 ABCDEF01
Key3 is
    456789AB CDEF0123
Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51

Block #1
Blockin   6BC1BEE2 2E409F96
  TDES_Core:  BlockIn   6BC1BEE2 2E409F96
  DES:      BlockOut1   7277A00D C1C1C36B
  DES:      BlockOut2   F6C18AF6 58CC11D5
  TDES_Core: BlockOut   714772F3 39841D34
Blockout  714772F3 39841D34

Block #2
Blockin   E93D7E11 7393172A
  TDES_Core:  BlockIn   E93D7E11 7393172A
  DES:      BlockOut1   2256338B 7A9F36EF
  DES:      BlockOut2   26026E68 9C91B1B5
  TDES_Core: BlockOut   267FCC4B D2949CC3
Blockout  267FCC4B D2949CC3

Block #3
Blockin   AE2D8A57 1E03AC9C
  TDES_Core:  BlockIn   AE2D8A57 1E03AC9C
  DES:      BlockOut1   6E511022 CFEBEC48
  DES:      BlockOut2   8C6358D8 90CF31DF
  TDES_Core: BlockOut   EE11C22A 576A3038
Blockout  EE11C22A 576A3038

Block #4
```

```
Blockin   9EB76FAC 45AF8E51
  TDES_Core:  BlockIn   9EB76FAC 45AF8E51
  DES:      BlockOut1   9A4A53A1 C7D22E5B
  DES:      BlockOut2   D9CE8344 2D0FA499
  TDES_Core: BlockOut   76183F99 C0B6DE87
Blockout  76183F99 C0B6DE87


Ciphertext is
    714772F3 39841D34 267FCC4B D2949CC3
    EE11C22A 576A3038 76183F99 C0B6DE87

============================================================

ECB-TDES128 (Decryption)
------------------------------------------------------------

Key1 is
    01234567 89ABCDEF
Key2 is
    23456789 ABCDEF01
Key3 is
    456789AB CDEF0123

Ciphertext is
    714772F3 39841D34 267FCC4B D2949CC3
    EE11C22A 576A3038 76183F99 C0B6DE87

Block #1
Blockin   714772F3 39841D34
  TDES_Core:  BlockIn   714772F3 39841D34
  DES:      BlockOut1   F6C18AF6 58CC11D5
  DES:      BlockOut2   7277A00D C1C1C36B
  TDES_Core: BlockOut   6BC1BEE2 2E409F96
Blockout  6BC1BEE2 2E409F96

Block #2
Blockin   267FCC4B D2949CC3
  TDES_Core:  BlockIn   267FCC4B D2949CC3
  DES:      BlockOut1   26026E68 9C91B1B5
  DES:      BlockOut2   2256338B 7A9F36EF
  TDES_Core: BlockOut   E93D7E11 7393172A
Blockout  E93D7E11 7393172A

Block #3
Blockin   EE11C22A 576A3038
```

```
  TDES_Core:  BlockIn   EE11C22A 576A3038
  DES:      BlockOut1   8C6358D8 90CF31DF
  DES:      BlockOut2   6E511022 CFEBEC48
  TDES_Core: BlockOut   AE2D8A57 1E03AC9C
Blockout  AE2D8A57 1E03AC9C

Block #4
Blockin   76183F99 C0B6DE87
  TDES_Core:  BlockIn   76183F99 C0B6DE87
  DES:      BlockOut1   D9CE8344 2D0FA499
  DES:      BlockOut2   9A4A53A1 C7D22E5B
  TDES_Core: BlockOut   9EB76FAC 45AF8E51
Blockout  9EB76FAC 45AF8E51


Plaintext is
    6BC1BEE2 2E409F96 E93D7E11 7393172A
    AE2D8A57 1E03AC9C 9EB76FAC 45AF8E51

************************************************************
```