

### Symmetric Block Style Algorithms

Name	Rounds	Keysize	Blocksize
Lucifer	16	128	128
DES	16	64 (56)	64
3DES	48	128 (112) 192 (168)	64
Blowfish	16	32-448 128-default	64
Twofish	16	128,192,256	128
IDEA	8	128	64
CAST-128	16	40-128	64
CAST-256	48	128,160,192,224,256	128
RC2	18	0-1024	64
RC5	0-255	0-2048	32,64,128
RC6	20	128,192,256	128
AES	10,12,14	128,192,256	128
SAFER SK64	8-10	64,128	64,128
SAFER SK128	8,12,16	128,192,256	128
Mars	32	128-448	128
Skipjack	32	80	64
Serpent	32	128,192,256	128
Seed	16	128	128
Misty1	any multiple of 4	128	64
Gost	32	256	64
Clelia	18,22,26	128,192,256	128
Camellia	18,24	128,192,256	128
ARIA	12,14,16	128,192,256	128
TEA	16,32	128	64
ICE	16	64	64
SHACAL-1	80	128-512	160
SHACAL-2	80	128-512	256

(\*) identifies effective strength if different from length

### Symmetric Streaming Algorithms

Name	Keysize
RC4	40-2048
W7	128
Sober	128
Rabbit	128
SEAL	160

### DES Block Modes

ECB – Electronic Code Book  
 CBC – Cipher Block Chaining  
 CFB – Cipher Feedback  
 OFB – Output Feedback  
 CTR – Counter Mode

### AES Methods

SubBytes  
 ShiftRows  
 MixColumns  
 AddRoundKey

### Remembering the common symmetric algorithms

C - CAST  
 3 - 3DES  
 2 - Two Fish  
 B - Blowfish  
 R - RC4, RC5, RC6  
 A - AES  
 I - IDEA  
 D - DES  
 S - SAFER

### European NESSIE Project

Misty1  
 Camellia  
 SHACAL-2  
 AES



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