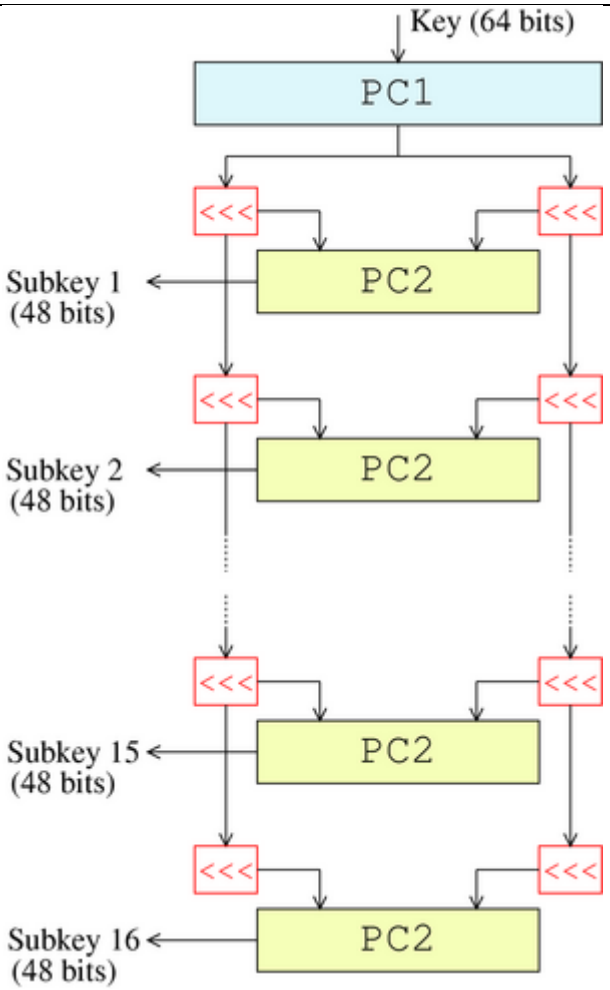
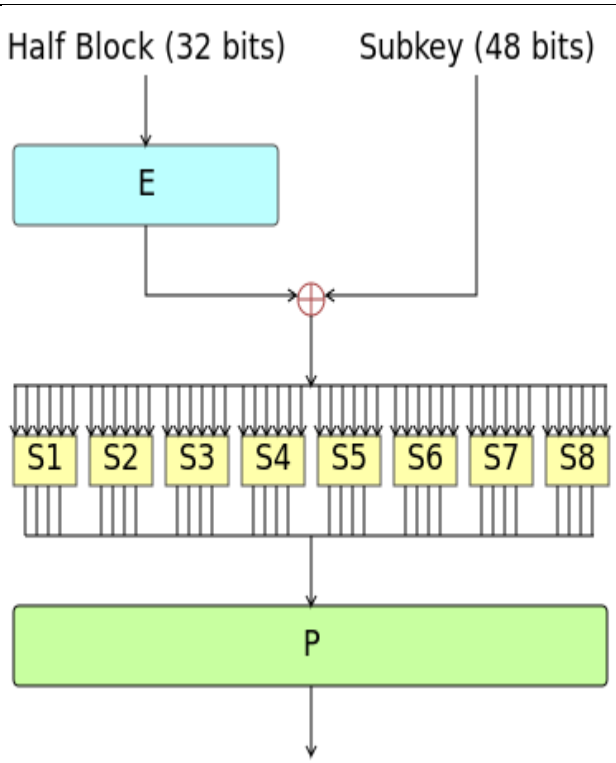
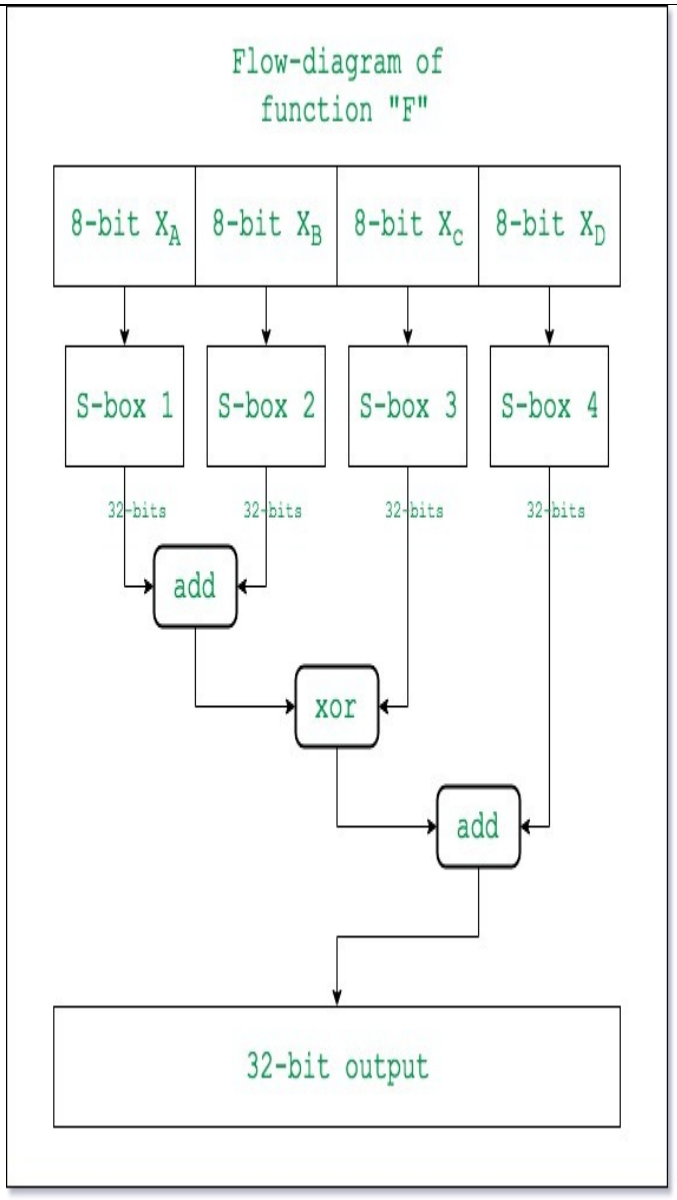
Differences between DES and Blowfish

	DES	Blowfish
Key size	56 bits(effective)	32-bits to 448-bits
Cypher type	Symmetric block cypher	Symmetric block cypher
Block size	64 bits	64 bits
Speed	Slow	Fast
Security	Not secure enough	Secure enough
Number of rounds	16	16
Number of S-boxes	8	4
Structure	Feistel Network	Feistel Network
Sub-Key generation		P[0] = P[0] xor 1st 32-bits of input key P[1] = P[1] xor 2nd 32-bits of input key . . . P[i] = P[i] xor (i+1)th 32-bits of input key (roll over to 1st 32-bits depending on the key length) . . . P[17] = P[17] xor 18th 32-bits of input key (roll over to 1st 32-bits depending on key length)

Feistel function		

Encryption Algorithm