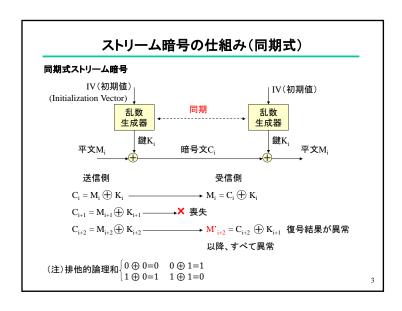
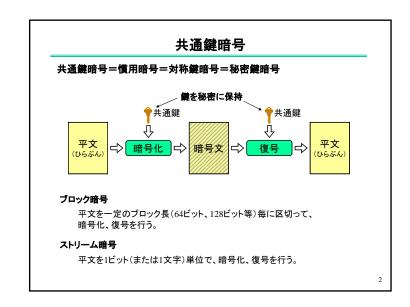
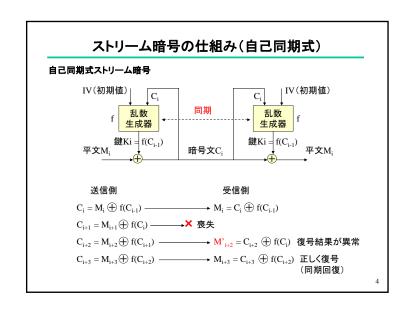
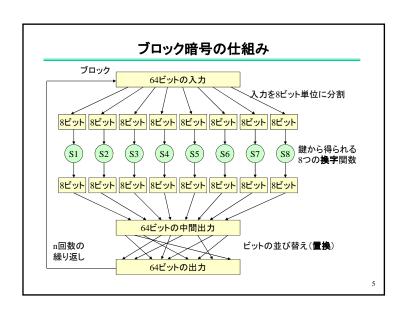
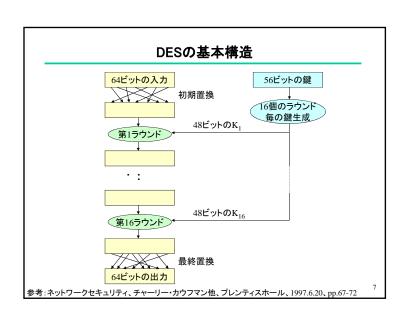
5. 共**通鍵暗号**











初期置換、最終置換

初期宣換(IP)									
58	50	42	34	26	18	10	2		
60	52	44	36	28	20	12	4		
62	54	46	38	30	22	14	6		
64	56	48	40	32	24	16	8		
57	49	41	33	25	17	9	1		
59	51	43	35	27	19	11	3		
61	53	45	37	29	21	13	5		
63	55	47	39	31	23	15	7		

取非	令 直 :	哭(1)	P-1)				
40	8	48	16	56	24	64	32
39	7	47	15	55	23	63	31
38	6	46	14	54	22	62	30
37	5	45	13	53	21	61	29
36	4	44	12	52	20	60	28
35	3	43	11	51	19	59	27
34	2	42	10	50	18	58	26
33	1	41	9	49	17	57	25

三**公平**46/m-1\

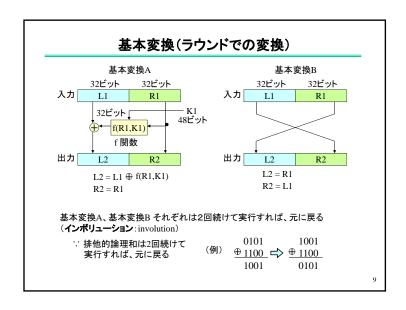
ます目の数字は置換前のビット位置

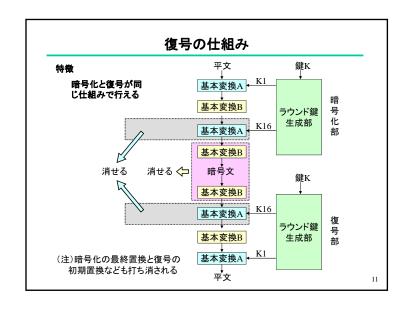
・並び替えは規則的(安全性向上には無縁)

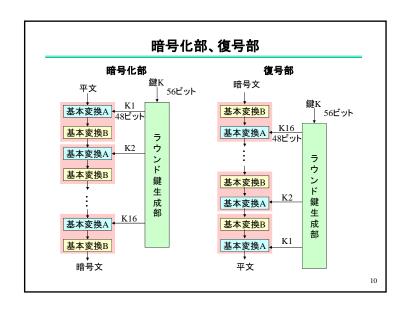
・最終置換は初期置換の逆関数

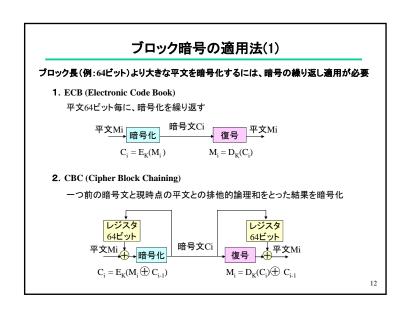
(例)入力の1ビット目は初期置換の40ビット目へ、その40ビット目は最終置換の1ビット目へ

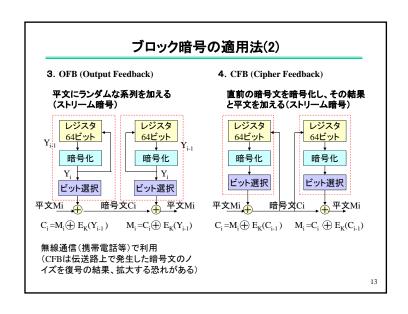
3

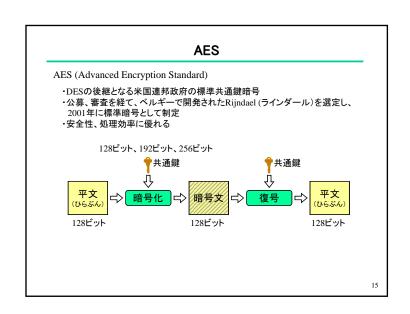


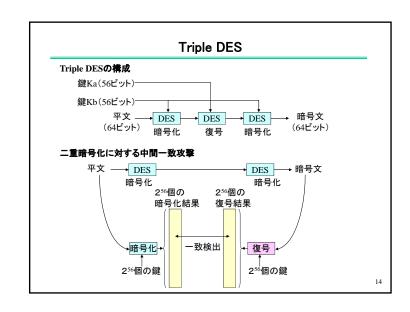












名称	鍵長(bit)	ブロック長(bit)	段数	開発元	発表年
DES	56	64	16	IBM	1977
Triple DES	112,168	64	16×3	IBM	1977
FEAL-N	64	64	N	NTT	1987
MULTI2	256	64	可変	日立製作所	1989
IDEA	128	64	8	ETH, Ascom	1991
MISTY1,2	128	64	8	三菱電機	1992
Blowfish	32-448	64	16	Counterpane	1993
RC2	1-128	64	18	RSA	1997
RC5	1-256	32,64,128	可変	RSA	1994
CAST	40-128	64	可変	Nortel	1997
Camellia	128,196,256	128	18,24	NTT,三菱	2000
AES(Rijndael)	128,196,256	128	10,12,14	NIST	2001