MULTI-S01 暗号評価に使用したデータについて

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1 鍵の種類

MULTI-S01 で使用する鍵は，秘密鍵，乱数列番号，冗長性に分類できる．その中で秘密であることを要請されているのは,「秘密鍵」のみである．評価に際しては，3 つの鍵のカテゴ リーに属するサンプリングした鍵の全ての組み合わせに対して行うことを目標とする．

1.1 秘密鍵

鍵名称は c[特徴][番号] の形式とした．

cmxxx 0x 0000....0001 から 0x ffff....ffff まで，1 ビットずつ付加した鍵 (256 通り)

caxxx ランダムに選択した 18 通りの鍵の 1 ビット違いの鍵を 8 通りずつ．計 144 通り．

秘密鍵の総数は 400 通りである．

1.2 乱数列番号 256 ビット

鍵名称は d[特徴][番号] の形式とした．

1. オール 0 または，それに近いもの，オール 1 またはそれに近いもの，
2. ランダムに選んだもの各々に対する 1 ビット違いの鍵．

乱数列番号の総数は 25 である．

1.3 冗長性 64 ビット

鍵名称は r[特徴][番号] の形式とした．

1. オール 0 またはその 1 ビット違いの鍵 (計 4 種類)
2. オール 1 またはその 1 ビット違いの鍵 (計 4 種類)
3. ランダムに選択した鍵およびビット違いの鍵 (計 2 種類)

冗長性の総数は 10 である．

2　鍵の内容

2.1　秘密鍵

cm001
K1 = 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
K2 = 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 01
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ca258
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ca262
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ca274
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K2 = d7 8f a4 38 58 5c 4e 2a 42 ec 7c b0 d4 3b 06 fb
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K1 = 12 1f 5d 23 3f 1e 9e a8 57 1c ee 7b c5 64 fd c5
K2 = 2b 14 7b 73 3e 5a 82 c5 b1 5e 23 4b d3 79 2f 63
ca313
K1 = e0 aa 5b d4 d9 ac 11 f2 5e 1b 21 10 a8 af 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca314
K1 = e0 aa 5b d4 d9 ac 11 f2 5e 1b 21 10 a8 af f0 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca315
K1 = e0 aa 5b d4 d9 ac 11 f6 5e 1b 21 10 a8 af 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca316
K1 = e2 aa 5b d4 d9 ac 11 f2 5e 1b 21 10 a8 af 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca317
K1 = e0 aa 5b d4 dd ac 11 f2 5e 1b 21 10 a8 af 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca318
K1 = e8 aa 5b d4 d9 ac 11 f2 5e 1b 21 10 a8 af 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca319
K1 = e0 aa 5b d4 d9 ac 11 f2 5e 1b 21 10 88 af 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca320
K1 = e0 aa 5b d4 d9 ac 11 f2 5e 1b 21 10 a8 8f 70 3b
K2 = 7e 33 e7 cd 0e e3 c5 50 d6 48 d4 47 c3 15 01 5c
ca321

K1 = 37 0b 1e e1 ac 1a 01 1c 8f 7f bd 23 5a f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca322
K1 = 37 0b 1e e1 ac 1e 01 1c 8f 7f bd 23 5a f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca323
K1 = 37 0b 1e e1 ad 1a 01 1c 8f 7f bd 23 5a f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca324
K1 = 37 0b 1e e1 ac 1a 01 1c 8f 7f bd 23 5a f8 70 28
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca325
K1 = 37 0b 1e e1 ac 1a 01 1c 8f 7f bd 23 58 f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca326
K1 = 37 0b 1e e1 ac 1a 01 1c 8f 7f 9d 23 5a f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca327
K1 = 37 0b 1e e1 8c 1a 01 1c 8f 7f bd 23 5a f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca328
K1 = 37 0b 1e e1 ac 0a 01 1c 8f 7f bd 23 5a f8 70 29
K2 = 18 f8 34 a4 82 1b 77 13 55 b5 2a ca e7 4e d3 e8
ca329
K1 = 5d bc 6e 5f 1b 4e 82 77 c5 fa 4b cb 28 6c fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca330
K1 = 5d bc 6e 5f 1b 4e 82 77 c5 fa 4b cb 28 6d fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca331
K1 = 5d bc 6e 5f 1b 6e 82 77 c5 fa 4b cb 28 6c fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca332
K1 = 5d bc 6e 5f 1b 4e 82 77 c5 fa 4b cb 28 64 fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca333
K1 = 5d bc 6e 5f 13 4e 82 77 c5 fa 4b cb 28 6c fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca334
K1 = 5d bc 6e 4f 1b 4e 82 77 c5 fa 4b cb 28 6c fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca335
K1 = 5d bc 6e 5f 1b 4e 82 77 d5 fa 4b cb 28 6c fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca336
K1 = 5d bc 6e 5f 1b 4e 82 77 c5 f2 4b cb 28 6c fd 05
K2 = 6a ac d4 86 fe 21 fa 2b 91 aa 59 1a 6a 55 aa a2
ca337
K1 = ff 36 50 94 12 b3 c9 af ac e2 fc f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca338
K1 = ff 36 50 94 12 b3 c9 af ac e2 fc f0 e3 e5 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca339
K1 = ff 36 50 94 12 b3 c9 af ac f2 fc f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca340
K1 = ff 36 50 94 12 b7 c9 af ac e2 fc f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca341
K1 = ff 36 54 94 12 b3 c9 af ac e2 fc f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca342
K1 = ff 36 50 94 12 b3 cb af ac e2 fc f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca343
K1 = ff 36 50 94 12 b3 c9 af ac e2 fd f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca344
K1 = fb 36 50 94 12 b3 c9 af ac e2 fc f0 e3 e4 0a 9e
K2 = 6b 4f ff 32 8d 15 31 49 4a fd b5 82 2e 4e b5 a9
ca345
K1 = e8 0a f6 bc 1d d5 f1 0e ae 18 47 a8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca346
K1 = e8 0a f6 bc 1d d5 f1 0e ae 18 47 a8 f0 44 fe 8c
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca347
K1 = e8 0a f6 fc 1d d5 f1 0e ae 18 47 a8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca348
K1 = e8 0a f6 bc 1d d5 f1 0e ae 18 47 b8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca349
K1 = e8 0a f6 bc 1d dd f1 0e ae 18 47 a8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca350
K1 = e8 0a f6 bc 1d d5 71 0e ae 18 47 a8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca351
K1 = e8 0a f6 bc 1d d5 f1 0e ae 18 67 a8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca352
K1 = e8 0a f6 bc 1d d5 f1 06 ae 18 47 a8 f0 44 fe ac
K2 = 5a 5b b9 f3 ab 8e 57 4c 9d d7 b6 2d c2 9b 9d 09
ca353
K1 = 4d 84 9e 7f d4 2d 67 ad 64 d4 e7 76 6e 47 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca354
K1 = 4d 84 9e 5f d4 2d 67 ad 64 d4 e7 76 6e 47 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca355
K1 = 4d 84 9e 7f d4 2d 67 ad 64 d4 e7 76 6e 47 5c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca356
K1 = 4d 84 9e 7f d4 2d 67 ad 64 d4 e7 76 66 47 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca357
K1 = 4d 84 9e 7f d4 29 67 ad 64 d4 e7 76 6e 47 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca358
K1 = 4d 84 9e ff d4 2d 67 ad 64 d4 e7 76 6e 47 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca359
K1 = 4d 84 9e 6f d4 2d 67 ad 64 d4 e7 76 6e 47 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca360
K1 = 4d 84 9e 7f d4 2d 67 ad 64 d4 e7 76 6e 57 4c de
K2 = de 32 8c 1c 3d ec 8c 4a d3 c4 2e 30 8a f6 2e 20
ca361
K1 = 3b ec 0b 0b 28 b9 5e 20 a8 ba ab 86 ac c3 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca362
K1 = 3b ec 0b 0b 28 b9 5e 28 a8 ba ab 86 ac c3 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca363
K1 = 3b ec 0b 0b 28 b9 5e 20 a8 ba ab 86 ac c3 f6 36
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca364
K1 = 3b fc 0b 0b 28 b9 5e 20 a8 ba ab 86 ac c3 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca365
K1 = 3b ec 0b 0b 28 b9 5e 20 a8 b2 ab 86 ac c3 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca366
K1 = 3b ec 0b 0b 28 b9 5e 20 aa ba ab 86 ac c3 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca367

K1 = 3b ec 0b 0b 28 a9 5e 20 a8 ba ab 86 ac c3 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca368
K1 = 3b ec 0b 0b 28 b9 5e 20 a8 ba ab 86 ac 43 f6 3e
K2 = 4a 05 80 f1 5d ec ae d9 68 67 cc 33 fb b7 46 99
ca369
K1 = 94 5e df a0 d5 f2 81 10 27 a8 f8 f6 b1 05 63 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca370
K1 = 94 5e df a0 d5 f2 81 10 27 a8 f8 f6 b1 05 63 d4
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca371
K1 = 94 5e df a0 d5 f2 81 18 27 a8 f8 f6 b1 05 63 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca372
K1 = 94 5e df a0 d5 f2 81 10 27 a9 f8 f6 b1 05 63 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca373
K1 = 90 5e df a0 d5 f2 81 10 27 a8 f8 f6 b1 05 63 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca374
K1 = 94 5e df a0 d5 f2 81 10 23 a8 f8 f6 b1 05 63 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca375
K1 = 94 5e df a0 d5 f2 81 10 27 a8 f8 f6 b1 05 67 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca376
K1 = 94 5e df a0 d5 f2 81 10 27 a8 f8 f6 f1 05 63 94
K2 = 04 01 d9 be c1 b4 ac bc 85 44 6e 78 a2 fa cf 49
ca377
K1 = 71 4c 51 7e 1b 51 cf 25 ab b3 6b 48 63 84 8b 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca378
K1 = 71 4c 51 7e 1b 51 cf 25 ab b3 6b 48 63 84 cb 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca379
K1 = 79 4c 51 7e 1b 51 cf 25 ab b3 6b 48 63 84 8b 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca380
K1 = 71 4c 51 7e 0b 51 cf 25 ab b3 6b 48 63 84 8b 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca381
K1 = 71 4c 51 7e 1b 51 cf 25 ab b3 6b 48 63 84 89 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca382
K1 = 71 4c 51 7e 1b 51 cf 25 ab b3 6b 48 63 84 8b 73
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca383
K1 = 71 4c 51 7e 1b 51 cf 05 ab b3 6b 48 63 84 8b 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca384
K1 = 71 4c 51 7e 1b 51 cf 25 ab b3 eb 48 63 84 8b 53
K2 = 41 3a e4 94 b2 fb 3a 31 95 99 16 90 3e 32 6f 57
ca385
K1 = 42 08 8d f5 5b e9 bb e2 2c 5e 81 53 6f 60 9d aa
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca386
K1 = 42 08 8d f5 5b e9 bb e2 2c 4e 81 53 6f 60 9d aa
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca387
K1 = 42 08 8d f5 5b e9 bb e2 2c 5e 81 53 6f 60 9d ea
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca388
K1 = 42 08 8d f1 5b e9 bb e2 2c 5e 81 53 6f 60 9d aa
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca389
K1 = 42 08 8d f5 5b e9 bb e2 2c 5e 81 53 6f 60 9d ba
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca390
K1 = 43 08 8d f5 5b e9 bb e2 2c 5e 81 53 6f 60 9d aa
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca391
K1 = 42 08 8d f5 5b e9 bb e2 2e 5e 81 53 6f 60 9d aa
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca392
K1 = 42 08 8d f5 5b e9 ba e2 2c 5e 81 53 6f 60 9d aa
K2 = d2 d2 8a b2 6c d0 7e 85 f5 fa d0 54 09 d8 37 35
ca393
K1 = 9a 87 ae 75 f2 65 28 70 72 5a 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca394
K1 = 9a 87 ae 75 f2 65 28 70 70 5a 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca395
K1 = 9a 87 ae 75 f2 65 28 70 72 52 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca396
K1 = 9a 87 ae 75 f2 65 28 70 72 58 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca397
K1 = 9a 87 ae 75 f2 65 08 70 72 5a 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca398
K1 = 9a 87 ae 75 f2 65 38 70 72 5a 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca399
K1 = 9a 87 ae 35 f2 65 28 70 72 5a 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e
ca400
K1 = 9a a7 ae 75 f2 65 28 70 72 5a 28 8a b7 3f b4 62
K2 = b6 80 13 29 70 44 e2 de 94 7c df a5 80 89 67 4e

2.2 乱数列番号

```
da001
D = 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
da002
D = 00000000 00000000 00000040 00000000 00000000 00000000 00000000 00000000
da003
D = 00000000 00000000 00000000 00000200 00000000 00000000 00000000 00000000
da004
D = 00000000 00000000 00000000 00080000 00000000 00000000 00000000 00000000
da005
D = 00000000 00000000 00020000 00000000 00000000 00000000 00000000 00000000
da006
D = ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
da007
D = ffffffff ffffffff fffffbff ffffffff ffffffff ffffffff ffffffff ffffffff
da008
D = ffffffff ffffffff ffffffff ffffefff ffffffff ffffffff ffffffff ffffffff
da009
D = ffffffff fffffdff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
da010
D = ffffffff ffffffff ffffdfff ffffffff ffffffff ffffffff ffffffff ffffffff
da011
D = 58bad7ab 41f21efb a9e3e146 007c62c2 085427f8 231be9e8 cde7438d 0f76255a
da012
D = 58bad7ab 41f21efb a9e3e146 007c62ca 085427f8 231be9e8 cde7438d 0f76255a
da013
D = 58bad7ab 41fa1efb a9e3e146 007c62c2 085427f8 231be9e8 cde7438d 0f76255a
da014
D = d8bad7ab 41f21efb a9e3e146 007c62c2 085427f8 231be9e8 cde7438d 0f76255a
da015
D = 58bad7ab 41f21efb a9e3e346 007c62c2 085427f8 231be9e8 cde7438d 0f76255a
da016
D = 079afb66 5d32500d d7b7ba31 e45830a3 d95a6125 895db105 a317a858 5ae9845e
da017
D = 079afb66 5d32580d d7b7ba31 e45830a3 d95a6125 895db105 a317a858 5ae9845e
da018
D = 079afb66 5d36500d d7b7ba31 e45830a3 d95a6125 895db105 a317a858 5ae9845e
da019
D = 079afb66 5d32500d d7b79a31 e45830a3 d95a6125 895db105 a317a858 5ae9845e
da020
D = 079afb66 5d32500d d7b7ba71 e45830a3 d95a6125 895db105 a317a858 5ae9845e
da021
D = 769b9eb4 24548611 c40e1d82 f8748641 f521bd3d 8ddcf087 1a70dde9 c83ed4a1
da022
D = 769b9eb4 24548611 c40e1d82 f8748643 f521bd3d 8ddcf087 1a70dde9 c83ed4a1
da023
D = 769b9eb4 24548611 c40e1d82 e8748641 f521bd3d 8ddcf087 1a70dde9 c83ed4a1
da024
D = 769b9eb4 24548611 c40e1d82 f87486c1 f521bd3d 8ddcf087 1a70dde9 c83ed4a1
da025
D = 769b9eb4 64548611 c40e1d82 f8748641 f521bd3d 8ddcf087 1a70dde9 c83ed4a1
ra001
```

2.3 冗長性

```
ra001
R = 00000000 00000000
ra002
R = 00000040 00000000
ra003
R = 00000000 00000200
ra004
R = 00000000 00080000
ra005
R = ffffffff ffffffff
ra006
```

```
R = ffffffff 7fffffff
ra007
R = fffffbff ffffffff
ra008
R = ffffffff fffefff
ra009
R = 1f297ccd 58bad7ab
ra010
R = 1f297ccd 50bad7ab
```

2.4 平文データ

提案方式はストリーム暗号でよく使用される方法 (乱数を生成して，それとの排他的論理和を暗号とする方法) ではない．つまり，平文によって，特徴が大きく変わる可能性もありうる．そこで，人為的に作成したものから，乱数を利用して作成したものまで合計 861 通りの平文を用意した．なお，平文長は 10000 bytes を基本とするが，全ビットが 0 の平文については， 1400000 bytes 長のものを用意した．最後の平文は 140×10000 bytes と評価できる．つまり，実際には 1000 通りの平文 (長さは 10000bytes) を用意したことになる．

平文名称は c[特徴][番号] の形式とした．

pmxxx 1 バイトの seed (0x 00 から 0xff まで) の繰り返し.(256 通り)

prxxx C 言語の rand() を利用して作成したランダムなデータ 25 通り，およびそれらの先頭 2 バイトの中の 1 ビットを変更したもの (各々20 通り)．合計 (500 通り)

p-xxx avi, doc, jpg, mid, mp3, pdf, png, tif, xls の各形式のデータ (73 通り)．これは，実際のデータのサンプルとして選択した．

pixxx 次の基準に従い平文のビットの分布に偏りがあるものを選択した．

1. 0/1 出現頻度に偏りのあるデータ
2. 00/01/10/11 出現頻度に偏りのあるデータ
3. 000/001/010/.../111 出現頻度に偏りのあるデータ