

Exemplo 1: com rotação chave sobre cada byte:

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Chave usada: 8 7 6 5 4 3 2 1
Texto legível: 1 2 3 4 5 6 7 8
exponencial e log com base 45:
exp[ 0]= 1, log[ 0]=128
exp[ 1]= 45, log[ 1]= 0
exp[ 2]=226, log[ 2]=176
exp[ 3]=147, log[ 3]= 9
exp[ 4]=190, log[ 4]= 96
exp[ 5]= 69, log[ 5]=239
exp[ 6]= 21, log[ 6]=185
exp[ 7]=174, log[ 7]=253
exp[ 8]=120, log[ 8]= 16
exp[ 9]= 3, log[ 9]= 18
exp[10]=135, log[10]=159
exp[11]=164, log[11]=228
exp[12]=184, log[12]=105
exp[13]= 56, log[13]=186
exp[14]=207, log[14]=173
exp[15]= 63, log[15]=248
exp[16]= 8, log[16]=192
exp[17]=103, log[17]= 56
exp[18]= 9, log[18]=194
exp[19]=148, log[19]=101
exp[20]=235, log[20]= 79
exp[21]= 38, log[21]= 6
exp[22]=168, log[22]=148
exp[23]=107, log[23]=252
exp[24]=189, log[24]= 25
exp[25]= 24, log[25]=222
exp[26]= 52, log[26]=106
exp[27]= 27, log[27]= 27
exp[28]=187, log[28]= 93
exp[29]=191, log[29]= 78
exp[30]=114, log[30]=168
exp[31]=247, log[31]=130
exp[32]= 64, log[32]=112
exp[33]= 53, log[33]=237
exp[34]= 72, log[34]=232
exp[35]=156, log[35]=236
exp[36]= 81, log[36]=114
exp[37]= 47, log[37]=179
exp[38]= 59, log[38]= 21
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exp[ 39]= 85, log[ 39]=195  
exp[ 40]=227, log[ 40]=255  
exp[ 41]=192, log[ 41]=171  
exp[ 42]=159, log[ 42]=182  
exp[ 43]=216, log[ 43]= 71  
exp[ 44]=211, log[ 44]= 68  
exp[ 45]=243, log[ 45]= 1  
exp[ 46]=141, log[ 46]=172  
exp[ 47]=177, log[ 47]= 37  
exp[ 48]=255, log[ 48]=201  
exp[ 49]=167, log[ 49]=250  
exp[ 50]= 62, log[ 50]=142  
exp[ 51]=220, log[ 51]= 65  
exp[ 52]=134, log[ 52]= 26  
exp[ 53]=119, log[ 53]= 33  
exp[ 54]=215, log[ 54]=203  
exp[ 55]=166, log[ 55]=211  
exp[ 56]= 17, log[ 56]= 13  
exp[ 57]=251, log[ 57]=110  
exp[ 58]=244, log[ 58]=254  
exp[ 59]=186, log[ 59]= 38  
exp[ 60]=146, log[ 60]= 88  
exp[ 61]=145, log[ 61]=218  
exp[ 62]=100, log[ 62]= 50  
exp[ 63]=131, log[ 63]= 15  
exp[ 64]=241, log[ 64]= 32  
exp[ 65]= 51, log[ 65]=169  
exp[ 66]=239, log[ 66]=157  
exp[ 67]=218, log[ 67]=132  
exp[ 68]= 44, log[ 68]=152  
exp[ 69]=181, log[ 69]= 5  
exp[ 70]=178, log[ 70]=156  
exp[ 71]= 43, log[ 71]=187  
exp[ 72]=136, log[ 72]= 34  
exp[ 73]=209, log[ 73]=140  
exp[ 74]=153, log[ 74]= 99  
exp[ 75]=203, log[ 75]=231  
exp[ 76]=140, log[ 76]=197  
exp[ 77]=132, log[ 77]=225  
exp[ 78]= 29, log[ 78]=115  
exp[ 79]= 20, log[ 79]=198  
exp[ 80]=129, log[ 80]=175  
exp[ 81]=151, log[ 81]= 36  
exp[ 82]=113, log[ 82]= 91  
exp[ 83]=202, log[ 83]=135

exp[ 84]= 95, log[ 84]=102  
exp[ 85]=163, log[ 85]= 39  
exp[ 86]=139, log[ 86]=247  
exp[ 87]= 87, log[ 87]= 87  
exp[ 88]= 60, log[ 88]=244  
exp[ 89]=130, log[ 89]=150  
exp[ 90]=196, log[ 90]=177  
exp[ 91]= 82, log[ 91]=183  
exp[ 92]= 92, log[ 92]= 92  
exp[ 93]= 28, log[ 93]=139  
exp[ 94]=232, log[ 94]=213  
exp[ 95]=160, log[ 95]= 84  
exp[ 96]= 4, log[ 96]=121  
exp[ 97]=180, log[ 97]=223  
exp[ 98]=133, log[ 98]=170  
exp[ 99]= 74, log[ 99]=246  
exp[100]=246, log[100]= 62  
exp[101]= 19, log[101]=163  
exp[102]= 84, log[102]=241  
exp[103]=182, log[103]= 17  
exp[104]=223, log[104]=202  
exp[105]= 12, log[105]=245  
exp[106]= 26, log[106]=209  
exp[107]=142, log[107]= 23  
exp[108]=222, log[108]=123  
exp[109]=224, log[109]=147  
exp[110]= 57, log[110]=131  
exp[111]=252, log[111]=188  
exp[112]= 32, log[112]=189  
exp[113]=155, log[113]= 82  
exp[114]= 36, log[114]= 30  
exp[115]= 78, log[115]=235  
exp[116]=169, log[116]=174  
exp[117]=152, log[117]=204  
exp[118]=158, log[118]=214  
exp[119]=171, log[119]= 53  
exp[120]=242, log[120]= 8  
exp[121]= 96, log[121]=200  
exp[122]=208, log[122]=138  
exp[123]=108, log[123]=180  
exp[124]=234, log[124]=226  
exp[125]=250, log[125]=205  
exp[126]=199, log[126]=191  
exp[127]=217, log[127]=217  
exp[128]= 0, log[128]=208

exp[129]=212, log[129]= 80  
exp[130]= 31, log[130]= 89  
exp[131]=110, log[131]= 63  
exp[132]= 67, log[132]= 77  
exp[133]=188, log[133]= 98  
exp[134]=236, log[134]= 52  
exp[135]= 83, log[135]= 10  
exp[136]=137, log[136]= 72  
exp[137]=254, log[137]=136  
exp[138]=122, log[138]=181  
exp[139]= 93, log[139]= 86  
exp[140]= 73, log[140]= 76  
exp[141]=201, log[141]= 46  
exp[142]= 50, log[142]=107  
exp[143]=194, log[143]=158  
exp[144]=249, log[144]=210  
exp[145]=154, log[145]= 61  
exp[146]=248, log[146]= 60  
exp[147]=109, log[147]= 3  
exp[148]= 22, log[148]= 19  
exp[149]=219, log[149]=251  
exp[150]= 89, log[150]=151  
exp[151]=150, log[151]= 81  
exp[152]= 68, log[152]=117  
exp[153]=233, log[153]= 74  
exp[154]=205, log[154]=145  
exp[155]=230, log[155]=113  
exp[156]= 70, log[156]= 35  
exp[157]= 66, log[157]=190  
exp[158]=143, log[158]=118  
exp[159]= 10, log[159]= 42  
exp[160]=193, log[160]= 95  
exp[161]=204, log[161]=249  
exp[162]=185, log[162]=212  
exp[163]=101, log[163]= 85  
exp[164]=176, log[164]= 11  
exp[165]=210, log[165]=220  
exp[166]=198, log[166]= 55  
exp[167]=172, log[167]= 49  
exp[168]= 30, log[168]= 22  
exp[169]= 65, log[169]=116  
exp[170]= 98, log[170]=215  
exp[171]= 41, log[171]=119  
exp[172]= 46, log[172]=167  
exp[173]= 14, log[173]=230

exp[174]=116, log[174]= 7  
exp[175]= 80, log[175]=219  
exp[176]= 2, log[176]=164  
exp[177]= 90, log[177]= 47  
exp[178]=195, log[178]= 70  
exp[179]= 37, log[179]=243  
exp[180]=123, log[180]= 97  
exp[181]=138, log[181]= 69  
exp[182]= 42, log[182]=103  
exp[183]= 91, log[183]=227  
exp[184]=240, log[184]= 12  
exp[185]= 6, log[185]=162  
exp[186]= 13, log[186]= 59  
exp[187]= 71, log[187]= 28  
exp[188]=111, log[188]=133  
exp[189]=112, log[189]= 24  
exp[190]=157, log[190]= 4  
exp[191]=126, log[191]= 29  
exp[192]= 16, log[192]= 41  
exp[193]=206, log[193]=160  
exp[194]= 18, log[194]=143  
exp[195]= 39, log[195]=178  
exp[196]=213, log[196]= 90  
exp[197]= 76, log[197]=216  
exp[198]= 79, log[198]=166  
exp[199]=214, log[199]=126  
exp[200]=121, log[200]=238  
exp[201]= 48, log[201]=141  
exp[202]=104, log[202]= 83  
exp[203]= 54, log[203]= 75  
exp[204]=117, log[204]=161  
exp[205]=125, log[205]=154  
exp[206]=228, log[206]=193  
exp[207]=237, log[207]= 14  
exp[208]=128, log[208]=122  
exp[209]=106, log[209]= 73  
exp[210]=144, log[210]=165  
exp[211]= 55, log[211]= 44  
exp[212]=162, log[212]=129  
exp[213]= 94, log[213]=196  
exp[214]=118, log[214]=199  
exp[215]=170, log[215]= 54  
exp[216]=197, log[216]= 43  
exp[217]=127, log[217]=127  
exp[218]= 61, log[218]= 67

exp[219]=175, log[219]=149  
 exp[220]=165, log[220]= 51  
 exp[221]=229, log[221]=242  
 exp[222]= 25, log[222]=108  
 exp[223]= 97, log[223]=104  
 exp[224]=253, log[224]=109  
 exp[225]= 77, log[225]=240  
 exp[226]=124, log[226]= 2  
 exp[227]=183, log[227]= 40  
 exp[228]= 11, log[228]=206  
 exp[229]=238, log[229]=221  
 exp[230]=173, log[230]=155  
 exp[231]= 75, log[231]=234  
 exp[232]= 34, log[232]= 94  
 exp[233]=245, log[233]=153  
 exp[234]=231, log[234]=124  
 exp[235]=115, log[235]= 20  
 exp[236]= 35, log[236]=134  
 exp[237]= 33, log[237]=207  
 exp[238]=200, log[238]=229  
 exp[239]= 5, log[239]= 66  
 exp[240]=225, log[240]=184  
 exp[241]=102, log[241]= 64  
 exp[242]=221, log[242]=120  
 exp[243]=179, log[243]= 45  
 exp[244]= 88, log[244]= 58  
 exp[245]=105, log[245]=233  
 exp[246]= 99, log[246]=100  
 exp[247]= 86, log[247]= 31  
 exp[248]= 15, log[248]=146  
 exp[249]=161, log[249]=144  
 exp[250]= 49, log[250]=125  
 exp[251]=149, log[251]= 57  
 exp[252]= 23, log[252]=111  
 exp[253]= 7, log[253]=224  
 exp[254]= 58, log[254]=137  
 exp[255]= 40, log[255]= 48  
 subchave[ 0, 0]= 8, (8)X  
 subchave[ 0, 1]= 7, (7)X  
 subchave[ 0, 2]= 6, (6)X  
 subchave[ 0, 3]= 5, (5)X  
 subchave[ 0, 4]= 4, (4)X  
 subchave[ 0, 5]= 3, (3)X  
 subchave[ 0, 6]= 2, (2)X  
 subchave[ 0, 7]= 1, (1)X

Chave antes da rotacao de 3 bits:

(8)X,008 (7)X,007 (6)X,006 (5)X,005 (4)X,004 (3)X,003 (2)X,002 (1)X,001

Chave depois rotacao de 3 bits:

(40)X, 64 (38)X, 56 (30)X, 48 (28)X, 40 (20)X, 32 (18)X, 24 (10)X, 16 (8)X, 8

9\*(iround)+ibyte com iround=[2]

22 115 59 30 142 112 189 134

Geracao de subchaves

subchave[ 1, 0]= 86, (56)X

subchave[ 1, 1]=171, (ab)X

subchave[ 1, 2]=107, (6b)X

subchave[ 1, 3]= 70, (46)X

subchave[ 1, 4]=174, (ae)X

subchave[ 1, 5]=136, (88)X

subchave[ 1, 6]=205, (cd)X

subchave[ 1, 7]=142, (8e)X

Chave antes da rotacao de 3 bits:

(40)X,064 (38)X,056 (30)X,048 (28)X,040 (20)X,032 (18)X,024 (10)X,016 (8)X,008

Chave depois rotacao de 3 bits:

(2)X, 2 (c1)X,193 (81)X,129 (41)X, 65 (1)X, 1 (c0)X,192 (80)X,128 (40)X, 64

9\*(iround)+ibyte com iround=[3]

71 126 36 86 241 119 136 70

Geracao de subchaves

subchave[ 2, 0]= 73, (49)X

subchave[ 2, 1]= 63, (3f)X

subchave[ 2, 2]=165, (a5)X

subchave[ 2, 3]=151, (97)X

subchave[ 2, 4]=242, (f2)X

subchave[ 2, 5]= 55, (37)X

subchave[ 2, 6]= 8, (8)X

subchave[ 2, 7]=134, (86)X

Chave antes da rotacao de 3 bits:

(2)X,002 (c1)X,193 (81)X,129 (41)X,065 (1)X,001 (c0)X,192 (80)X,128 (40)X,064

Chave depois rotacao de 3 bits:

(10)X, 16 (e)X, 14 (c)X, 12 (a)X, 10 (8)X, 8 (6)X, 6 (4)X, 4 (2)X, 2

9\*(iround)+ibyte com iround=[4]

177 186 163 183 16 10 197 55

Geracao de subchaves

subchave[ 3, 0]=193, (c1)X

subchave[ 3, 1]=200, (c8)X

subchave[ 3, 2]=175, (af)X

subchave[ 3, 3]=193, (c1)X

subchave[ 3, 4]= 24, (18)X

subchave[ 3, 5]= 16, (10)X  
subchave[ 3, 6]=201, (c9)X  
subchave[ 3, 7]= 57, (39)X

Chave antes da rotacao de 3 bits:

(10)X,016 (e)X,014 (c)X,012 (a)X,010 (8)X,008 (6)X,006 (4)X,004 (2)X,002

Chave depois rotacao de 3 bits:

(80)X,128 (70)X,112 (60)X, 96 (50)X, 80 (40)X, 64 (30)X, 48 (20)X, 32 (10)X, 16

9\*(iround)+ibyte com iround=[5]

201 90 40 172 100 165 236 171

Geracao de subchaves

subchave[ 4, 0]= 73, (49)X  
subchave[ 4, 1]=202, (ca)X  
subchave[ 4, 2]=136, (88)X  
subchave[ 4, 3]=252, (fc)X  
subchave[ 4, 4]=164, (a4)X  
subchave[ 4, 5]=213, (d5)X  
subchave[ 4, 6]= 12, (c)X  
subchave[ 4, 7]=187, (bb)X

Chave antes da rotacao de 3 bits:

(80)X,128 (70)X,112 (60)X,096 (50)X,080 (40)X,064 (30)X,048 (20)X,032 (10)X,016

Chave depois rotacao de 3 bits:

(4)X, 4 (83)X,131 (3)X, 3 (82)X,130 (2)X, 2 (81)X,129 (1)X, 1 (80)X,128

9\*(iround)+ibyte com iround=[6]

198 103 149 88 13 248 154 246

Geracao de subchaves

subchave[ 5, 0]=202, (ca)X  
subchave[ 5, 1]=234, (ea)X  
subchave[ 5, 2]=152, (98)X  
subchave[ 5, 3]=218, (da)X  
subchave[ 5, 4]= 15, (f)X  
subchave[ 5, 5]=121, (79)X  
subchave[ 5, 6]=155, (9b)X  
subchave[ 5, 7]=118, (76)X

Chave antes da rotacao de 3 bits:

(4)X,004 (83)X,131 (3)X,003 (82)X,130 (2)X,002 (81)X,129 (1)X,001 (80)X,128

Chave depois rotacao de 3 bits:

(20)X, 32 (1c)X, 28 (18)X, 24 (14)X, 20 (10)X, 16 (c)X, 12 (8)X, 8 (4)X, 4

9\*(iround)+ibyte com iround=[7]

102 220 5 61 211 138 195 216

Geracao de subchaves

subchave[ 6, 0]=134, (86)X  
subchave[ 6, 1]=248, (f8)X



subchave[ 6, 2]= 29, (1d)X  
subchave[ 6, 3]= 81, (51)X  
subchave[ 6, 4]=227, (e3)X  
subchave[ 6, 5]=150, (96)X  
subchave[ 6, 6]=203, (cb)X  
subchave[ 6, 7]=220, (dc)X

Chave antes da rotacao de 3 bits:

(20)X,032 (1c)X,028 (18)X,024 (14)X,020 (10)X,016 (c)X,012 (8)X,008 (4)X,004

Chave depois rotacao de 3 bits:

(1)X, 1 (e0)X,224 (c0)X,192 (a0)X,160 (80)X,128 (60)X, 96 (40)X, 64 (20)X, 32  
9\*(iround)+ibyte com iround=[8]

106 233 54 73 67 191 235 212

Geracao de subchaves

subchave[ 7, 0]=107, (6b)X  
subchave[ 7, 1]=201, (c9)X  
subchave[ 7, 2]=246, (f6)X  
subchave[ 7, 3]=233, (e9)X  
subchave[ 7, 4]=195, (c3)X  
subchave[ 7, 5]= 31, (1f)X  
subchave[ 7, 6]= 43, (2b)X  
subchave[ 7, 7]=244, (f4)X

Chave antes da rotacao de 3 bits:

(1)X,001 (e0)X,224 (c0)X,192 (a0)X,160 (80)X,128 (60)X,096 (40)X,064 (20)X,032

Chave depois rotacao de 3 bits:

(8)X, 8 (7)X, 7 (6)X, 6 (5)X, 5 (4)X, 4 (3)X, 3 (2)X, 2 (1)X, 1

9\*(iround)+ibyte com iround=[9]

155 104 160 101 93 87 146 31

Geracao de subchaves

subchave[ 8, 0]=163, (a3)X  
subchave[ 8, 1]=111, (6f)X  
subchave[ 8, 2]=166, (a6)X  
subchave[ 8, 3]=106, (6a)X  
subchave[ 8, 4]= 97, (61)X  
subchave[ 8, 5]= 90, (5a)X  
subchave[ 8, 6]=148, (94)X  
subchave[ 8, 7]= 32, (20)X

Chave antes da rotacao de 3 bits:

(8)X,008 (7)X,007 (6)X,006 (5)X,005 (4)X,004 (3)X,003 (2)X,002 (1)X,001

Chave depois rotacao de 3 bits:

(40)X, 64 (38)X, 56 (30)X, 48 (28)X, 40 (20)X, 32 (18)X, 24 (10)X, 16 (8)X, 8

9\*(iround)+ibyte com iround=[10]

113 92 187 34 193 190 123 188

Geracao de subchaves

subchave[ 9, 0]=177, (b1)X  
subchave[ 9, 1]=148, (94)X  
subchave[ 9, 2]=235, (eb)X  
subchave[ 9, 3]= 74, (4a)X  
subchave[ 9, 4]=225, (e1)X  
subchave[ 9, 5]=214, (d6)X  
subchave[ 9, 6]=139, (8b)X  
subchave[ 9, 7]=196, (c4)X

Chave antes da rotacao de 3 bits:

(40)X,064 (38)X,056 (30)X,048 (28)X,040 (20)X,032 (18)X,024 (10)X,016 (8)X,008

Chave depois rotacao de 3 bits:

(2)X, 2 (c1)X,193 (81)X,129 (41)X, 65 (1)X, 1 (c0)X,192 (80)X,128 (40)X, 64  
9\*(iround)+ibyte com iround=[11]

99 148 95 42 97 184 52 50

Geracao de subchaves

subchave[10, 0]=101, (65)X  
subchave[10, 1]= 85, (55)X  
subchave[10, 2]=224, (e0)X  
subchave[10, 3]=107, (6b)X  
subchave[10, 4]= 98, (62)X  
subchave[10, 5]=120, (78)X  
subchave[10, 6]=180, (b4)X  
subchave[10, 7]=114, (72)X

Chave antes da rotacao de 3 bits:

(2)X,002 (c1)X,193 (81)X,129 (41)X,065 (1)X,001 (c0)X,192 (80)X,128 (40)X,064

Chave depois rotacao de 3 bits:

(10)X, 16 (e)X, 14 (c)X, 12 (a)X, 10 (8)X, 8 (6)X, 6 (4)X, 4 (2)X, 2  
9\*(iround)+ibyte com iround=[12]

253 251 23 64 230 81 29 65

Geracao de subchaves

subchave[11, 0]= 13, (d)X  
subchave[11, 1]= 9, (9)X  
subchave[11, 2]= 35, (23)X  
subchave[11, 3]= 74, (4a)X  
subchave[11, 4]=238, (ee)X  
subchave[11, 5]= 87, (57)X  
subchave[11, 6]= 33, (21)X  
subchave[11, 7]= 67, (43)X

Chave antes da rotacao de 3 bits:

(10)X,016 (e)X,014 (c)X,012 (a)X,010 (8)X,008 (6)X,006 (4)X,004 (2)X,002

Chave depois rotacao de 3 bits:

(80)X,128 (70)X,112 (60)X, 96 (50)X, 80 (40)X, 64 (30)X, 48 (20)X, 32 (10)X, 16  
9\*(iround)+ibyte com iround=[13]

143 41 221 4 128 222 231 49

Geracao de subchaves

subchave[12, 0]= 15, (f)X

subchave[12, 1]=153, (99)X

subchave[12, 2]= 61, (3d)X

subchave[12, 3]= 84, (54)X

subchave[12, 4]=192, (c0)X

subchave[12, 5]= 14, (e)X

subchave[12, 6]= 7, (7)X

subchave[12, 7]= 65, (41)X

safer: entrada legivel

[ 0][ 0]=(0001)X, 1, round=0

[ 0][ 1]=(0002)X, 2, round=0

[ 0][ 2]=(0003)X, 3, round=0

[ 0][ 3]=(0004)X, 4, round=0

[ 0][ 4]=(0005)X, 5, round=0

[ 0][ 5]=(0006)X, 6, round=0

[ 0][ 6]=(0007)X, 7, round=0

[ 0][ 7]=(0008)X, 8, round=0

[ 1][ 0]=(0065)X, 101, round=1

[ 1][ 1]=(002a)X, 42, round=1

[ 1][ 2]=(007a)X, 122, round=1

[ 1][ 3]=(006a)X, 106, round=1

[ 1][ 4]=(003f)X, 63, round=1

[ 1][ 5]=(006f)X, 111, round=1

[ 1][ 6]=(00e1)X, 225, round=1

[ 1][ 7]=(00e3)X, 227, round=1

[ 2][ 0]=(0066)X, 102, round=2

[ 2][ 1]=(007a)X, 122, round=2

[ 2][ 2]=(0042)X, 66, round=2

[ 2][ 3]=(00ab)X, 171, round=2

[ 2][ 4]=(004b)X, 75, round=2

[ 2][ 5]=(00c4)X, 196, round=2

[ 2][ 6]=(00e4)X, 228, round=2

[ 2][ 7]=(001e)X, 30, round=2

[ 3][ 0]=(0072)X, 114, round=3

[ 3][ 1]=(00db)X, 219, round=3

[ 3][ 2]=(00a5)X, 165, round=3

[ 3][ 3]=(00cf)X, 207, round=3

[ 3][ 4]=(0047)X, 71, round=3

[ 3][ 5]=(0018)X, 24, round=3

[ 3][ 6]=(0084)X, 132, round=3

[ 3][ 7]=(009b)X, 155, round=3  
[ 4][ 0]=(0075)X, 117, round=4  
[ 4][ 1]=(0035)X, 53, round=4  
[ 4][ 2]=(00a4)X, 164, round=4  
[ 4][ 3]=(0063)X, 99, round=4  
[ 4][ 4]=(00a1)X, 161, round=4  
[ 4][ 5]=(00cc)X, 204, round=4  
[ 4][ 6]=(00c9)X, 201, round=4  
[ 4][ 7]=(0030)X, 48, round=4  
[ 5][ 0]=(0084)X, 132, round=5  
[ 5][ 1]=(004d)X, 77, round=5  
[ 5][ 2]=(00f6)X, 246, round=5  
[ 5][ 3]=(0095)X, 149, round=5  
[ 5][ 4]=(0005)X, 5, round=5  
[ 5][ 5]=(00bb)X, 187, round=5  
[ 5][ 6]=(00b6)X, 182, round=5  
[ 5][ 7]=(001b)X, 27, round=5  
[ 6][ 0]=(00c7)X, 199, round=6  
[ 6][ 1]=(0059)X, 89, round=6  
[ 6][ 2]=(005f)X, 95, round=6  
[ 6][ 3]=(0089)X, 137, round=6  
[ 6][ 4]=(0047)X, 71, round=6  
[ 6][ 5]=(006a)X, 106, round=6  
[ 6][ 6]=(0037)X, 55, round=6  
[ 6][ 7]=(0098)X, 152, round=6

safer64 apos ult. transf.:

[ 6][ 0]=00c8, 200, round=6  
[ 6][ 1]=00f2, 242, round=6  
[ 6][ 2]=009c, 156, round=6  
[ 6][ 3]=00dd, 221, round=6  
[ 6][ 4]=0087, 135, round=6  
[ 6][ 5]=0078, 120, round=6  
[ 6][ 6]=003e, 62, round=6  
[ 6][ 7]=00d9, 217, round=6

Texto ilegível:

[ 6][ 0]=(00c8)X, 200, round=6  
[ 6][ 1]=(00f2)X, 242, round=6  
[ 6][ 2]=(009c)X, 156, round=6  
[ 6][ 3]=(00dd)X, 221, round=6  
[ 6][ 4]=(0087)X, 135, round=6  
[ 6][ 5]=(0078)X, 120, round=6  
[ 6][ 6]=(003e)X, 62, round=6  
[ 6][ 7]=(00d9)X, 217, round=6

Exemplo 2: com rotação da chave toda, de 64 bits:

```
Chave usada: 8 7 6 5 4 3 2 1
Texto legivel: 1 2 3 4 5 6 7 8
exponencial e log com base 45:
exp[ 0]= 1, log[ 0]=128
exp[ 1]= 45, log[ 1]= 0
exp[ 2]=226, log[ 2]=176
exp[ 3]=147, log[ 3]= 9
exp[ 4]=190, log[ 4]= 96
exp[ 5]= 69, log[ 5]=239
exp[ 6]= 21, log[ 6]=185
exp[ 7]=174, log[ 7]=253
exp[ 8]=120, log[ 8]= 16
exp[ 9]= 3, log[ 9]= 18
exp[ 10]=135, log[ 10]=159
exp[ 11]=164, log[ 11]=228
exp[ 12]=184, log[ 12]=105
exp[ 13]= 56, log[ 13]=186
exp[ 14]=207, log[ 14]=173
exp[ 15]= 63, log[ 15]=248
exp[ 16]= 8, log[ 16]=192
exp[ 17]=103, log[ 17]= 56
exp[ 18]= 9, log[ 18]=194
exp[ 19]=148, log[ 19]=101
exp[ 20]=235, log[ 20]= 79
exp[ 21]= 38, log[ 21]= 6
exp[ 22]=168, log[ 22]=148
exp[ 23]=107, log[ 23]=252
exp[ 24]=189, log[ 24]= 25
exp[ 25]= 24, log[ 25]=222
exp[ 26]= 52, log[ 26]=106
exp[ 27]= 27, log[ 27]= 27
exp[ 28]=187, log[ 28]= 93
exp[ 29]=191, log[ 29]= 78
exp[ 30]=114, log[ 30]=168
exp[ 31]=247, log[ 31]=130
exp[ 32]= 64, log[ 32]=112
exp[ 33]= 53, log[ 33]=237
exp[ 34]= 72, log[ 34]=232
exp[ 35]=156, log[ 35]=236
```

exp[ 36]= 81, log[ 36]=114  
exp[ 37]= 47, log[ 37]=179  
exp[ 38]= 59, log[ 38]= 21  
exp[ 39]= 85, log[ 39]=195  
exp[ 40]=227, log[ 40]=255  
exp[ 41]=192, log[ 41]=171  
exp[ 42]=159, log[ 42]=182  
exp[ 43]=216, log[ 43]= 71  
exp[ 44]=211, log[ 44]= 68  
exp[ 45]=243, log[ 45]= 1  
exp[ 46]=141, log[ 46]=172  
exp[ 47]=177, log[ 47]= 37  
exp[ 48]=255, log[ 48]=201  
exp[ 49]=167, log[ 49]=250  
exp[ 50]= 62, log[ 50]=142  
exp[ 51]=220, log[ 51]= 65  
exp[ 52]=134, log[ 52]= 26  
exp[ 53]=119, log[ 53]= 33  
exp[ 54]=215, log[ 54]=203  
exp[ 55]=166, log[ 55]=211  
exp[ 56]= 17, log[ 56]= 13  
exp[ 57]=251, log[ 57]=110  
exp[ 58]=244, log[ 58]=254  
exp[ 59]=186, log[ 59]= 38  
exp[ 60]=146, log[ 60]= 88  
exp[ 61]=145, log[ 61]=218  
exp[ 62]=100, log[ 62]= 50  
exp[ 63]=131, log[ 63]= 15  
exp[ 64]=241, log[ 64]= 32  
exp[ 65]= 51, log[ 65]=169  
exp[ 66]=239, log[ 66]=157  
exp[ 67]=218, log[ 67]=132  
exp[ 68]= 44, log[ 68]=152  
exp[ 69]=181, log[ 69]= 5  
exp[ 70]=178, log[ 70]=156  
exp[ 71]= 43, log[ 71]=187  
exp[ 72]=136, log[ 72]= 34  
exp[ 73]=209, log[ 73]=140  
exp[ 74]=153, log[ 74]= 99  
exp[ 75]=203, log[ 75]=231  
exp[ 76]=140, log[ 76]=197  
exp[ 77]=132, log[ 77]=225  
exp[ 78]= 29, log[ 78]=115  
exp[ 79]= 20, log[ 79]=198  
exp[ 80]=129, log[ 80]=175

exp[ 81]=151, log[ 81]= 36  
exp[ 82]=113, log[ 82]= 91  
exp[ 83]=202, log[ 83]=135  
exp[ 84]= 95, log[ 84]=102  
exp[ 85]=163, log[ 85]= 39  
exp[ 86]=139, log[ 86]=247  
exp[ 87]= 87, log[ 87]= 87  
exp[ 88]= 60, log[ 88]=244  
exp[ 89]=130, log[ 89]=150  
exp[ 90]=196, log[ 90]=177  
exp[ 91]= 82, log[ 91]=183  
exp[ 92]= 92, log[ 92]= 92  
exp[ 93]= 28, log[ 93]=139  
exp[ 94]=232, log[ 94]=213  
exp[ 95]=160, log[ 95]= 84  
exp[ 96]= 4, log[ 96]=121  
exp[ 97]=180, log[ 97]=223  
exp[ 98]=133, log[ 98]=170  
exp[ 99]= 74, log[ 99]=246  
exp[100]=246, log[100]= 62  
exp[101]= 19, log[101]=163  
exp[102]= 84, log[102]=241  
exp[103]=182, log[103]= 17  
exp[104]=223, log[104]=202  
exp[105]= 12, log[105]=245  
exp[106]= 26, log[106]=209  
exp[107]=142, log[107]= 23  
exp[108]=222, log[108]=123  
exp[109]=224, log[109]=147  
exp[110]= 57, log[110]=131  
exp[111]=252, log[111]=188  
exp[112]= 32, log[112]=189  
exp[113]=155, log[113]= 82  
exp[114]= 36, log[114]= 30  
exp[115]= 78, log[115]=235  
exp[116]=169, log[116]=174  
exp[117]=152, log[117]=204  
exp[118]=158, log[118]=214  
exp[119]=171, log[119]= 53  
exp[120]=242, log[120]= 8  
exp[121]= 96, log[121]=200  
exp[122]=208, log[122]=138  
exp[123]=108, log[123]=180  
exp[124]=234, log[124]=226  
exp[125]=250, log[125]=205

exp[126]=199, log[126]=191  
exp[127]=217, log[127]=217  
exp[128]= 0, log[128]=208  
exp[129]=212, log[129]= 80  
exp[130]= 31, log[130]= 89  
exp[131]=110, log[131]= 63  
exp[132]= 67, log[132]= 77  
exp[133]=188, log[133]= 98  
exp[134]=236, log[134]= 52  
exp[135]= 83, log[135]= 10  
exp[136]=137, log[136]= 72  
exp[137]=254, log[137]=136  
exp[138]=122, log[138]=181  
exp[139]= 93, log[139]= 86  
exp[140]= 73, log[140]= 76  
exp[141]=201, log[141]= 46  
exp[142]= 50, log[142]=107  
exp[143]=194, log[143]=158  
exp[144]=249, log[144]=210  
exp[145]=154, log[145]= 61  
exp[146]=248, log[146]= 60  
exp[147]=109, log[147]= 3  
exp[148]= 22, log[148]= 19  
exp[149]=219, log[149]=251  
exp[150]= 89, log[150]=151  
exp[151]=150, log[151]= 81  
exp[152]= 68, log[152]=117  
exp[153]=233, log[153]= 74  
exp[154]=205, log[154]=145  
exp[155]=230, log[155]=113  
exp[156]= 70, log[156]= 35  
exp[157]= 66, log[157]=190  
exp[158]=143, log[158]=118  
exp[159]= 10, log[159]= 42  
exp[160]=193, log[160]= 95  
exp[161]=204, log[161]=249  
exp[162]=185, log[162]=212  
exp[163]=101, log[163]= 85  
exp[164]=176, log[164]= 11  
exp[165]=210, log[165]=220  
exp[166]=198, log[166]= 55  
exp[167]=172, log[167]= 49  
exp[168]= 30, log[168]= 22  
exp[169]= 65, log[169]=116  
exp[170]= 98, log[170]=215



exp[171]= 41, log[171]=119  
exp[172]= 46, log[172]=167  
exp[173]= 14, log[173]=230  
exp[174]=116, log[174]= 7  
exp[175]= 80, log[175]=219  
exp[176]= 2, log[176]=164  
exp[177]= 90, log[177]= 47  
exp[178]=195, log[178]= 70  
exp[179]= 37, log[179]=243  
exp[180]=123, log[180]= 97  
exp[181]=138, log[181]= 69  
exp[182]= 42, log[182]=103  
exp[183]= 91, log[183]=227  
exp[184]=240, log[184]= 12  
exp[185]= 6, log[185]=162  
exp[186]= 13, log[186]= 59  
exp[187]= 71, log[187]= 28  
exp[188]=111, log[188]=133  
exp[189]=112, log[189]= 24  
exp[190]=157, log[190]= 4  
exp[191]=126, log[191]= 29  
exp[192]= 16, log[192]= 41  
exp[193]=206, log[193]=160  
exp[194]= 18, log[194]=143  
exp[195]= 39, log[195]=178  
exp[196]=213, log[196]= 90  
exp[197]= 76, log[197]=216  
exp[198]= 79, log[198]=166  
exp[199]=214, log[199]=126  
exp[200]=121, log[200]=238  
exp[201]= 48, log[201]=141  
exp[202]=104, log[202]= 83  
exp[203]= 54, log[203]= 75  
exp[204]=117, log[204]=161  
exp[205]=125, log[205]=154  
exp[206]=228, log[206]=193  
exp[207]=237, log[207]= 14  
exp[208]=128, log[208]=122  
exp[209]=106, log[209]= 73  
exp[210]=144, log[210]=165  
exp[211]= 55, log[211]= 44  
exp[212]=162, log[212]=129  
exp[213]= 94, log[213]=196  
exp[214]=118, log[214]=199  
exp[215]=170, log[215]= 54

exp[216]=197, log[216]= 43  
exp[217]=127, log[217]=127  
exp[218]= 61, log[218]= 67  
exp[219]=175, log[219]=149  
exp[220]=165, log[220]= 51  
exp[221]=229, log[221]=242  
exp[222]= 25, log[222]=108  
exp[223]= 97, log[223]=104  
exp[224]=253, log[224]=109  
exp[225]= 77, log[225]=240  
exp[226]=124, log[226]= 2  
exp[227]=183, log[227]= 40  
exp[228]= 11, log[228]=206  
exp[229]=238, log[229]=221  
exp[230]=173, log[230]=155  
exp[231]= 75, log[231]=234  
exp[232]= 34, log[232]= 94  
exp[233]=245, log[233]=153  
exp[234]=231, log[234]=124  
exp[235]=115, log[235]= 20  
exp[236]= 35, log[236]=134  
exp[237]= 33, log[237]=207  
exp[238]=200, log[238]=229  
exp[239]= 5, log[239]= 66  
exp[240]=225, log[240]=184  
exp[241]=102, log[241]= 64  
exp[242]=221, log[242]=120  
exp[243]=179, log[243]= 45  
exp[244]= 88, log[244]= 58  
exp[245]=105, log[245]=233  
exp[246]= 99, log[246]=100  
exp[247]= 86, log[247]= 31  
exp[248]= 15, log[248]=146  
exp[249]=161, log[249]=144  
exp[250]= 49, log[250]=125  
exp[251]=149, log[251]= 57  
exp[252]= 23, log[252]=111  
exp[253]= 7, log[253]=224  
exp[254]= 58, log[254]=137  
exp[255]= 40, log[255]= 48  
subchave[ 0, 0]= 8, (8)X  
subchave[ 0, 1]= 7, (7)X  
subchave[ 0, 2]= 6, (6)X  
subchave[ 0, 3]= 5, (5)X  
subchave[ 0, 4]= 4, (4)X

subchave[ 0, 5]= 3, (3)X  
subchave[ 0, 6]= 2, (2)X  
subchave[ 0, 7]= 1, (1)X

Chave antes da rotacao de 3 bits:

(8)X,008 (7)X,007 (6)X,006 (5)X,005 (4)X,004 (3)X,003 (2)X,002 (1)X,001

Chave depois rotacao de 3 bits:

(40)X, 64 (38)X, 56 (30)X, 48 (28)X, 40 (20)X, 32 (18)X, 24 (10)X, 16 (8)X, 8

9\*(iround)+ibyte com iround=[2]

22 115 59 30 142 112 189 134

Geracao de subchaves

subchave[ 1, 0]= 86, (56)X  
subchave[ 1, 1]=171, (ab)X  
subchave[ 1, 2]=107, (6b)X  
subchave[ 1, 3]= 70, (46)X  
subchave[ 1, 4]=174, (ae)X  
subchave[ 1, 5]=136, (88)X  
subchave[ 1, 6]=205, (cd)X  
subchave[ 1, 7]=142, (8e)X

Chave antes da rotacao de 3 bits:

(40)X,064 (38)X,056 (30)X,048 (28)X,040 (20)X,032 (18)X,024 (10)X,016 (8)X,008

Chave depois rotacao de 3 bits:

(1)X, 1 (c1)X,193 (81)X,129 (41)X, 65 (0)X, 0 (c0)X,192 (80)X,128 (42)X, 66

9\*(iround)+ibyte com iround=[3]

71 126 36 86 241 119 136 70

Geracao de subchaves

subchave[ 2, 0]= 72, (48)X  
subchave[ 2, 1]= 63, (3f)X  
subchave[ 2, 2]=165, (a5)X  
subchave[ 2, 3]=151, (97)X  
subchave[ 2, 4]=241, (f1)X  
subchave[ 2, 5]= 55, (37)X  
subchave[ 2, 6]= 8, (8)X  
subchave[ 2, 7]=136, (88)X

Chave antes da rotacao de 3 bits:

(1)X,001 (c1)X,193 (81)X,129 (41)X,065 (0)X,000 (c0)X,192 (80)X,128 (42)X,066

Chave depois rotacao de 3 bits:

(e)X, 14 (c)X, 12 (a)X, 10 (8)X, 8 (6)X, 6 (4)X, 4 (2)X, 2 (10)X, 16

9\*(iround)+ibyte com iround=[4]

177 186 163 183 16 10 197 55

Geracao de subchaves

subchave[ 3, 0]=191, (bf)X  
subchave[ 3, 1]=198, (c6)X

subchave[ 3, 2]=173, (ad)X  
subchave[ 3, 3]=191, (bf)X  
subchave[ 3, 4]= 22, (16)X  
subchave[ 3, 5]= 14, (e)X  
subchave[ 3, 6]=199, (c7)X  
subchave[ 3, 7]= 71, (47)X

Chave antes da rotacao de 3 bits:

(e)X,014 (c)X,012 (a)X,010 (8)X,008 (6)X,006 (4)X,004 (2)X,002 (10)X,016

Chave depois rotacao de 3 bits:

(70)X,112 (60)X, 96 (50)X, 80 (40)X, 64 (30)X, 48 (20)X, 32 (10)X, 16 (80)X,128

9\*(iround)+ibyte com iround=[5]

201 90 40 172 100 165 236 171

Geracao de subchaves

subchave[ 4, 0]= 57, (39)X  
subchave[ 4, 1]=186, (ba)X  
subchave[ 4, 2]=120, (78)X  
subchave[ 4, 3]=236, (ec)X  
subchave[ 4, 4]=148, (94)X  
subchave[ 4, 5]=197, (c5)X  
subchave[ 4, 6]=252, (fc)X  
subchave[ 4, 7]= 43, (2b)X

Chave antes da rotacao de 3 bits:

(70)X,112 (60)X,096 (50)X,080 (40)X,064 (30)X,048 (20)X,032 (10)X,016 (80)X,128

Chave depois rotacao de 3 bits:

(83)X,131 (2)X, 2 (82)X,130 (1)X, 1 (81)X,129 (0)X, 0 (84)X,132 (3)X, 3

9\*(iround)+ibyte com iround=[6]

198 103 149 88 13 248 154 246

Geracao de subchaves

subchave[ 5, 0]= 73, (49)X  
subchave[ 5, 1]=105, (69)X  
subchave[ 5, 2]= 23, (17)X  
subchave[ 5, 3]= 89, (59)X  
subchave[ 5, 4]=142, (8e)X  
subchave[ 5, 5]=248, (f8)X  
subchave[ 5, 6]= 30, (1e)X  
subchave[ 5, 7]=249, (f9)X

Chave antes da rotacao de 3 bits:

(83)X,131 (2)X,002 (82)X,130 (1)X,001 (81)X,129 (0)X,000 (84)X,132 (3)X,003

Chave depois rotacao de 3 bits:

(18)X, 24 (14)X, 20 (10)X, 16 (c)X, 12 (8)X, 8 (4)X, 4 (20)X, 32 (1c)X, 28

9\*(iround)+ibyte com iround=[7]

102 220 5 61 211 138 195 216

Geracao de subchaves

subchave[ 6, 0]=126, (7e)X  
subchave[ 6, 1]=240, (f0)X  
subchave[ 6, 2]= 21, (15)X  
subchave[ 6, 3]= 73, (49)X  
subchave[ 6, 4]=219, (db)X  
subchave[ 6, 5]=142, (8e)X  
subchave[ 6, 6]=227, (e3)X  
subchave[ 6, 7]=244, (f4)X

Chave antes da rotacao de 3 bits:

(18)X,024 (14)X,020 (10)X,016 (c)X,012 (8)X,008 (4)X,004 (20)X,032 (1c)X,028

Chave depois rotacao de 3 bits:

(c0)X,192 (a0)X,160 (80)X,128 (60)X, 96 (40)X, 64 (21)X, 33 (0)X, 0 (e0)X,224  
9\*(iround)+ibyte com iround=[8]  
106 233 54 73 67 191 235 212

Geracao de subchaves

subchave[ 7, 0]= 42, (2a)X  
subchave[ 7, 1]=137, (89)X  
subchave[ 7, 2]=182, (b6)X  
subchave[ 7, 3]=169, (a9)X  
subchave[ 7, 4]=131, (83)X  
subchave[ 7, 5]=224, (e0)X  
subchave[ 7, 6]=235, (eb)X  
subchave[ 7, 7]=180, (b4)X

Chave antes da rotacao de 3 bits:

(c0)X,192 (a0)X,160 (80)X,128 (60)X,096 (40)X,064 (21)X,033 (0)X,000 (e0)X,224

Chave depois rotacao de 3 bits:

(5)X, 5 (4)X, 4 (3)X, 3 (2)X, 2 (1)X, 1 (8)X, 8 (7)X, 7 (6)X, 6  
9\*(iround)+ibyte com iround=[9]  
155 104 160 101 93 87 146 31

Geracao de subchaves

subchave[ 8, 0]=160, (a0)X  
subchave[ 8, 1]=108, (6c)X  
subchave[ 8, 2]=163, (a3)X  
subchave[ 8, 3]=103, (67)X  
subchave[ 8, 4]= 94, (5e)X  
subchave[ 8, 5]= 95, (5f)X  
subchave[ 8, 6]=153, (99)X  
subchave[ 8, 7]= 37, (25)X

Chave antes da rotacao de 3 bits:

(5)X,005 (4)X,004 (3)X,003 (2)X,002 (1)X,001 (8)X,008 (7)X,007 (6)X,006

Chave depois rotacao de 3 bits:

(28)X, 40 (20)X, 32 (18)X, 24 (10)X, 16 (8)X, 8 (40)X, 64 (38)X, 56 (30)X, 48  
9\*(iround)+ibyte com iround=[10]  
113 92 187 34 193 190 123 188  
Geracao de subchaves  
subchave[ 9, 0]=153, (99)X  
subchave[ 9, 1]=124, (7c)X  
subchave[ 9, 2]=211, (d3)X  
subchave[ 9, 3]= 50, (32)X  
subchave[ 9, 4]=201, (c9)X  
subchave[ 9, 5]=254, (fe)X  
subchave[ 9, 6]=179, (b3)X  
subchave[ 9, 7]=236, (ec)X

Chave antes da rotacao de 3 bits:

(28)X,040 (20)X,032 (18)X,024 (10)X,016 (8)X,008 (40)X,064 (38)X,056 (30)X,048

Chave depois rotacao de 3 bits:

(41)X, 65 (0)X, 0 (c0)X,192 (80)X,128 (42)X, 66 (1)X, 1 (c1)X,193 (81)X,129

9\*(iround)+ibyte com iround=[11]

99 148 95 42 97 184 52 50

Geracao de subchaves

subchave[10, 0]=164, (a4)X  
subchave[10, 1]=148, (94)X  
subchave[10, 2]= 31, (1f)X  
subchave[10, 3]=170, (aa)X  
subchave[10, 4]=163, (a3)X  
subchave[10, 5]=185, (b9)X  
subchave[10, 6]=245, (f5)X  
subchave[10, 7]=179, (b3)X

Chave antes da rotacao de 3 bits:

(41)X,065 (0)X,000 (c0)X,192 (80)X,128 (42)X,066 (1)X,001 (c1)X,193 (81)X,129

Chave depois rotacao de 3 bits:

(8)X, 8 (6)X, 6 (4)X, 4 (2)X, 2 (10)X, 16 (e)X, 14 (c)X, 12 (a)X, 10

9\*(iround)+ibyte com iround=[12]

253 251 23 64 230 81 29 65

Geracao de subchaves

subchave[11, 0]= 5, (5)X  
subchave[11, 1]= 1, (1)X  
subchave[11, 2]= 27, (1b)X  
subchave[11, 3]= 66, (42)X  
subchave[11, 4]=246, (f6)X  
subchave[11, 5]= 95, (5f)X  
subchave[11, 6]= 41, (29)X  
subchave[11, 7]= 75, (4b)X

Chave antes da rotacao de 3 bits:

(8)X,008 (6)X,006 (4)X,004 (2)X,002 (10)X,016 (e)X,014 (c)X,012 (a)X,010

Chave depois rotacao de 3 bits:

(40)X, 64 (30)X, 48 (20)X, 32 (10)X, 16 (80)X,128 (70)X,112 (60)X, 96 (50)X, 80

9\*(iround)+ibyte com iround=[13]

143 41 221 4 128 222 231 49

Geracao de subchaves

subchave[12, 0]=207, (cf)X

subchave[12, 1]= 89, (59)X

subchave[12, 2]=253, (fd)X

subchave[12, 3]= 20, (14)X

subchave[12, 4]= 0, (0)X

subchave[12, 5]= 78, (4e)X

subchave[12, 6]= 71, (47)X

subchave[12, 7]=129, (81)X

safer: entrada legivel

[ 0][ 0]=(0001)X, 1, round=0

[ 0][ 1]=(0002)X, 2, round=0

[ 0][ 2]=(0003)X, 3, round=0

[ 0][ 3]=(0004)X, 4, round=0

[ 0][ 4]=(0005)X, 5, round=0

[ 0][ 5]=(0006)X, 6, round=0

[ 0][ 6]=(0007)X, 7, round=0

[ 0][ 7]=(0008)X, 8, round=0

[ 1][ 0]=(0065)X, 101, round=1

[ 1][ 1]=(002a)X, 42, round=1

[ 1][ 2]=(007a)X, 122, round=1

[ 1][ 3]=(006a)X, 106, round=1

[ 1][ 4]=(003f)X, 63, round=1

[ 1][ 5]=(006f)X, 111, round=1

[ 1][ 6]=(00e1)X, 225, round=1

[ 1][ 7]=(00e3)X, 227, round=1

[ 2][ 0]=(008f)X, 143, round=2

[ 2][ 1]=(003d)X, 61, round=2

[ 2][ 2]=(0017)X, 23, round=2

[ 2][ 3]=(0058)X, 88, round=2

[ 2][ 4]=(0034)X, 52, round=2

[ 2][ 5]=(0079)X, 121, round=2

[ 2][ 6]=(001a)X, 26, round=2

[ 2][ 7]=(0040)X, 64, round=2

[ 3][ 0]=(00a7)X, 167, round=3

[ 3][ 1]=(0009)X, 9, round=3

[ 3][ 2]=(00a1)X, 161, round=3

[ 3][ 3]=(0072)X, 114, round=3

[ 3][ 4]=(0087)X, 135, round=3  
[ 3][ 5]=(0045)X, 69, round=3  
[ 3][ 6]=(00b6)X, 182, round=3  
[ 3][ 7]=(0070)X, 112, round=3  
[ 4][ 0]=(0003)X, 3, round=4  
[ 4][ 1]=(0028)X, 40, round=4  
[ 4][ 2]=(005e)X, 94, round=4  
[ 4][ 3]=(00a6)X, 166, round=4  
[ 4][ 4]=(00a3)X, 163, round=4  
[ 4][ 5]=(0033)X, 51, round=4  
[ 4][ 6]=(002f)X, 47, round=4  
[ 4][ 7]=(0039)X, 57, round=4  
[ 5][ 0]=(001d)X, 29, round=5  
[ 5][ 1]=(00a1)X, 161, round=5  
[ 5][ 2]=(0082)X, 130, round=5  
[ 5][ 3]=(00d5)X, 213, round=5  
[ 5][ 4]=(00e5)X, 229, round=5  
[ 5][ 5]=(00d4)X, 212, round=5  
[ 5][ 6]=(0016)X, 22, round=5  
[ 5][ 7]=(00d6)X, 214, round=5  
[ 6][ 0]=(0010)X, 16, round=6  
[ 6][ 1]=(00c5)X, 197, round=6  
[ 6][ 2]=(0003)X, 3, round=6  
[ 6][ 3]=(00b0)X, 176, round=6  
[ 6][ 4]=(00e3)X, 227, round=6  
[ 6][ 5]=(00ce)X, 206, round=6  
[ 6][ 6]=(0094)X, 148, round=6  
[ 6][ 7]=(006c)X, 108, round=6

safer64 apos ult. transf.:

[ 6][ 0]=00df, 223, round=6  
[ 6][ 1]=001e, 30, round=6  
[ 6][ 2]=0000, 0, round=6  
[ 6][ 3]=00a4, 164, round=6  
[ 6][ 4]=00e3, 227, round=6  
[ 6][ 5]=001c, 28, round=6  
[ 6][ 6]=00db, 219, round=6  
[ 6][ 7]=00ed, 237, round=6

Texto ilegivel:

[ 6][ 0]=(00df)X, 223, round=6  
[ 6][ 1]=(001e)X, 30, round=6  
[ 6][ 2]=(0000)X, 0, round=6  
[ 6][ 3]=(00a4)X, 164, round=6  
[ 6][ 4]=(00e3)X, 227, round=6



[ 6][ 5]=(001c)X, 28, round=6  
[ 6][ 6]=(00db)X, 219, round=6  
[ 6][ 7]=(00ed)X, 237, round=6