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| --- | --- | --- | --- | --- | --- | --- | --- |
| -252 | -43 | 17 | 1 | -3 | 2 | 1 | 0 |
| -55 | 41 | -14 | 0 | 3 | -1 | -1 | 0 |
| 4 | -10 | -2 | 0 | 1 | -1 | 0 | 1 |
| 7 | -4 | 6 | 0 | -2 | 1 | 0 | -1 |
| 7 | -7 | -1 | 0 | 0 | 0 | 0 |  |
| 0 | 5 | 0 | -1 | 0 | 0 |  |  |
| 1 | 0 | -1 | 1 | 0 |  |  |  |
| 0 | 1 | 0 | 0 |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 5 | -1 | 0 |  |  |  |  |
| 6 | -3 | 1 |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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| -20 | -5 | 1 | 0 |  |  |  |  |
| -5 | 3 | -1 |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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**<mcu1> Y Component**

**1111 10**00 0000 11**11 1100 0**010 100**1 1110 00**00 1000 **100**1 00**11 1100 0**101 001**1 1010** 1000 1**00**1 **1011** 0001 **1011** 0101 **100**1 11**10**

C=8 (-) R/S=0/6 R/S=0/6 R/S=0/3 R/S=0/6 R/S=0/5 R/S=0/1 R/S=0/4 R/S=0/4 R/S=0/3

D=-255+3=-252 (-)-63+20=-43 (-)-63+8=-55 (+)4+0=4 (+)32+9=41 (+)16+1=17 [+]1 (-)-15+1=-14 (-)-15+5=-10 (+)4+3=7

[-252] [-43] [-55] [4] [41] [17] [1] [-14] [-10] [7]

**0**111 **100**0 11**01** 01**11 011**0 0**01**1 0**01**1 1**111 1001** 110**1 00**00 0**110 0**1**10 0**101 **00**0**1 100**1 **00**0**0 0**1**11 00**0**0**

R/S=0/3 R/S=0/3 R/S=0/2 R/S=1/2 R/S=0/2 R/S=0/2 R/S=1/3 R/S=0/3 R/S=1/1 R/S=0/3 R/S=0/1 R/S=1/1 R/S=0/1 R/S=0/1 R/S=1/1

(+)4+3=7 (-)-7+3=-4 (-)-3+1=-2 (-)-3 (+)2 (+)2+1=3 (+)4+2=6 (-)-7 (+)1 (+)4+1=5 (-)-1 (+)1 (-)-1 (+)1 (-)-1

[7] [-4] [-2] [0, -3] [2] [3] [0, 6] [-7] [0, 1] [5] [-1] [0, 1] [-1] [1] [0, -1]

**0**0**01** 01**11 1011** 1**00**0 **00**0**1 100**1 **1110 0**1**11 1010** 1**111 1010** 0**101 0**

R/S=0/1 R/S=0/2 R/S=4/1 R/S=0/1 R/S=0/1 R/S=1/1 R/S=2/1 R/S=3/1 R/S=5/1 R/S=0/0

(-)-1 (-)-3+1=-2 (+)1 (-)-1 (-)-1 (+)1 (+)1 (+)1 (-)-1

[-1] [-2] [0, 0, 0, 0, 1] [-1] [-1] [0, 1] [0, 0, 1] [0, 0, 0, 1] [0, 0, 0, 0, 0, -1] [EOB]

**Cb Component**

**01**1 **1010** 101**1 010**1 10**11 1001** 00**01** 0**101 1**1**00**

C=1 (+) R/S=0/3 R/S=0/3 R/S=1/2 R/S=0/1 R/S=1/1 R/S=0/0

D=1 (+)4+1=5 (+)4+2=6 (-)-3 (-)-1 (+)1

[1] [5] [6] [0, -3] [-1] [0, 1] [EOB]

**Cr Component**

**1111 0**010 11**10 10**01 0**101 0**010 **1110 01**11 **01**1**1 011**0 **00**

C=5 (-) R/S=0/3 R/S=0/3 R/S=1/2 R/S=0/1 R/S=1/1 R/S=0/0

D=-31+11=-20 (-)-7+2=-5 (-)-5 (+)2+1=3 (+)1 (-)-1

[-20] [-5] [-5] [0, 3] [1] [0, -1] [EOB]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| -160 | 31 | -30 | 6 | -2 | 1 | 0 | -1 |
| -106 | 0 | -8 | -2 | -5 | -2 | 0 | 1 |
| -20 | -10 | 17 | -1 | 5 | 2 | 0 | -1 |
| -2 | -6 | 14 | 2 | 0 | -2 | 1 | 0 |
| 8 | 0 | 2 | 1 | -1 | 0 | 0 | 1 |
| 4 | 3 | -5 | 2 | 0 | 1 | -1 | 0 |
| 5 | 2 | -2 | -1 | 0 | 0 | 0 | -1 |
| 1 | 1 | 0 | -1 | 0 | -1 |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| -15 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 12 | -1 | 0 | 0 | 0 | 0 | 0 |  |
| 3 | 0 | -1 | 0 | 0 | 0 |  |  |
| 0 | 0 | 0 | 0 | 0 |  |  |  |
| 0 | 0 | 0 | -1 |  |  |  |  |
| 0 | 0 |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- |
| -4 | -3 | 0 | -1 |  |  |  |  |
| -9 | -1 | 0 | -1 |  |  |  |  |
| -3 | 0 | 1 |  |  |  |  |  |
| 0 | 0 |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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**<mcu2> Y Component**

**11 110**1 0111 00**11 010**1 1111 **1111 1000** 0010 101**1 1010** 0101 1**111 1111 0110** 0000 1**100** 110**1 011**0 111**1**

C=7 (+) R/S=0/5 R/S=0/7 R/S=0/5 R/S=1/5 R/S=0/3 R/S=0/4

D=64+28-252=-160 (+)16+15=31 (-)-127+21=-106 (-)-31+11=-20 (-)-31+1=-30 (+)4+2=6 (-)-15+7=-8

[-160] [31] [-106] [-20] [0, -30] [6] [-8]

**011**0 101**0 1**01**1 011**1 000**1 00**00 1**110 10**10 001**0 1**01**0 1**01**0 0**1**10 0**010 **00**0**1 011**1 110**1 1110 01**10 0**100** 101**0**

R/S=0/4 R/S=0/2 R/S=0/4 R/S=0/3 R/S=0/5 R/S=0/2 R/S=0/2 R/S=0/1 R/S=0/3 R/S=0/1 R/S=0/4 R/S=1/3 R/S=0/3

(-)-15+5=-10 (-)-3+1=-2 (+)8 (-)-7+1=-6 (+)16+1=17 (-)-3+1=-2 (-)-2 (+)1 (-)-7+2=-5 (-)-1 (+)8+6=14 (+)4 (+)4+1=5

[-10] [-2] [8] [-6] [17] [-2] [-2] [1] [-5] [-1] [14] [0, 4] [5]

**1**11**0 1**10**0 1**10**1 00**10 1**01**0 1**110 0**0**11 011**1 0**110 0**1**10 0**010 **01**10 **00**1**0 0**1**01** 01**01** 10**00** 0**01**0 1**110**

R/S=0/2 R/S=0/2 R/S=0/2 R/S=0/3 R/S=0/2 R/S=1/1 R/S=1/2 R/S=1/1 R/S=0/3 R/S=0/2 R/S=0/1 R/S=0/1 R/S=0/2 R/S=0/2 R/S=0/1 R/S=0/2

(+)2+1=3 (+)2 (+)2 (+)4+1=5 (-)-3+1=-2 (-)-1 (+)2 (+)1 (-)-7+2=-5 (+)2 (+)1 (+) (-)-3+1=-2 (+)2 (-)-1 (-)-3+1=-2

[3] [2] [2] [5] [-2] [0, -1] [0, 2] [0, 1] [-5] [2] [1] [1] [-2] [2] [-1] [-2]

**0**1**00** 0**00**1 **1110 0**0**11 00**0**1 100**1 **1110 0**1**00** 0**111 00**0**1 1100** 0**101 0**

R/S=1/1 R/S=0/1 R/S=0/1 R/S=2/1 R/S=1/1 R/S=1/1 R/S=2/1 R/S=0/1 R/S=2/1 R/S=2/1 R/S=0/0

(+)1 (-)-1 (+)1 (-)-1 (-)-1 (+)1 (+)1 (-)-1 (-)-1 (-)-1

[0, 1] [-1] [1] [0, 0, -1] [0, -1] [0, 1] [0, 0, 1] [-1] [0, 0, -1] [0, 0, -1] [EOB]

**Cb Component**

**111 10**01 111**1 00**10 **1100 0**110 0**100** 11**01** 0**01**1 **1111 001**0 **1111 1110 10 11 011**0 **00**

C=5 (-) R/S=0/2 R/S=0/4 R/S=0/2 R/S=0/1 R/S=0/1 R/S=6/1 R/S=F/0 R/S=3/1 R/S=0/0

D=-31+15+1=-15 (+)2 (+)8+4=12 (+)2+1=3 (-)-1 (+)1 (-)-1 (-)-1

[-15] [2] [12] [3] [-1] [1] [0, 0, 0, 0, 0, 0, -1] [0\*16] [0, 0, 0, -1] [EOB]

**Cr Component**

**11 110**1 0000 **100**0 0**110 00**01 10**10 0**00**0 1**0**10 11**0**1 1101 1**1**01** 0**00**

C=5 (+) R/S=0/2 R/S=0/4 R/S=0/2 R/S=0/1 R/S=1/1 R/S=5/1 R/S=0/1 R/S=0/0

D=16-20=-4 (-)-3 (-)-15+6=-9 (-)-3 (-)-1 (-)-1 (+)1 (-)-1

[-4] [-3] [-9] [-3] [-1] [0, -1] [0, 0, 0, 0, 0, 1] [-1] [EOB]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| -305 | 21 | 12 | 3 | -1 | -1 | 0 | 0 |
| -36 | -14 | -11 | -8 | -3 | -1 | 0 | 0 |
| 13 | 11 | 8 | 5 | 1 | -1 | -1 | 0 |
| -4 | -5 | -3 | 0 | 1 | 1 | 1 |  |
| 0 | 1 | 0 | -1 | -1 | -1 |  |  |
| 1 | 0 | 0 | 0 |  |  |  |  |
| 0 | 1 | 0 |  |  |  |  |  |
| 0 | 0 |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| -26 | 1 | 1 |  |  |  |  |  |
| 7 | -1 |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- |
| 32 | -3 | -2 | -1 | -1 |  |  |  |
| -7 | 4 | 2 | 0 |  |  |  |  |
| 0 | -1 | 0 |  |  |  |  |  |
| 0 | 0 |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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**<mcu3> Y Component**

**1 1111 0**011 0111 0**110 10**10 101**1 1110 00**01 1011 **1011** 1101 **1011** 0001 **1011** 1100 **01**11 **1011** 0100 **1011** 1011 **100**0 11**11 1100 1**010

C=8 (-) R/S=0/5 R/S=0/6 R/S=0/4 R/S=0/4 R/S=0/4 R/S=0/2 R/S=0/4 R/S=0/4 R/S=0/3 R/S=1/3

D=-255+110-160=-305 (+)16+5=21 (-)-63+27=-36 (+)8+5=13 (-)-15+1=-14 (+)8+4=12 (+)2+1=3 (-)-15+4=-11 (+)8+3=11 (-)-7+3=-4 (-)-7+2=-5

[-305] [21] [-36] [13] [-14] [12] [3] [-11] [11] [-4] [0, -5]

**1011** 1000 **1011** 0111 **00**0**0 0**0**01** 00**10 0**101 **01**00 **00**1**0 0**1**11 1011** 1**00**0 **1110 10**0**0 0**1**00** 0**110 0**1**11 1011** 0

R/S=0/4 R/S=0/4 R/S=0/1 R/S=0/1 R/S=0/2 R/S=0/3 R/S=0/2 R/S=0/1 R/S=0/1 R/S=4/1 R/S=0/1 R/S=3/1 R/S=0/1 R/S=0/1 R/S=1/1 R/S=4/1

(+)8 (-)-15+7=-8 (-)-1 (-)-1 (-)-3 (+)4+1=5 (-)-3 (+)1 (+)1 (+)1 (-)-1 (-)-1 (+)1 (-)-1 (+)1 (-)-1

[8] [-8] [-1] [-1] [-3] [5] [-3] [1] [1] [0, 0, 0, 0, 1] [-1] [0, 0, 0, -1] [1] [-1] [0, 1] [0, 0, 0, 0, -1]

**00**1 **00**0**1 1100** 1**00**0 **1010**

R/S=0/1 R/S=0/1 R/S=2/1 R/S=0/1 R/S=0/0

(+)1 (-)-1 (+)1 (-)-1

[1] [-1] [0, 0, 1] [-1] [EOB]

**Cb Component**

**1110** 0100 **01**1**1 010**1 11**10 11**0**0 1**1**00**

C=4 (-) R/S=0/1 R/S=0/3 R/S=1/1 R/S=0/1 R/S=0/0

D=-15+4-15=-26 (+)1 (+)4+3=7 (-)-1 (+)1

[-26] [1] [7] [0, -1] [1] [EOB]

**Cr Component**

**1111 10**10 0100 **100**0 0**101 0**000 **1111 0110** 100**1 00**01 **01**0**1 00**10 **01**0**1 1101 1**0**00**

C=6 (+) R/S=0/2 R/S=0/3 R/S=1/3 R/S=0/2 R/S=0/1 R/S=0/2 R/S=0/1 R/S=5/1 R/S=0/0

D=32+4-4=32 (-)-3 (-)-7 (+)4 (-)-3+1=-2 (-)-1 (+)2 (-)-1 (-)-1

[32] [-3] [-7] [0, 4] [-2] [-1] [2] [-1] [0, 0, 0, 0, 0, 1] [EOB]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| -19 | -87 | -24 | 34 | 23 | 3 | -6 | -4 |
| -38 | 34 | 42 | -12 | -2 | -6 | -4 | -3 |
| -37 | -51 | 0 | 22 | 7 | -2 | -3 | 0 |
| 4 | -18 | 6 | -3 | 3 | 4 | 1 | 0 |
| -16 | 5 | 1 | 3 | -2 | -6 | -3 | -1 |
| 9 | -12 | -3 | -1 | 1 | 2 | 1 | 1 |
| -14 | -5 | -2 | 0 | 0 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 0 | 0 | -1 |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| -21 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | -1 | 1 | 0 | 0 | 0 |  |
| 0 | 1 | 0 | 0 | 0 | 0 |  |  |
| 0 | 0 | 0 | 0 | 0 |  |  |  |
| 1 | 0 | 0 | -1 |  |  |  |  |
| 0 | 0 |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |  |
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**<mcu4> Y Component**

**110**0 1100 **1111 1000** 0101 000**1 1110 00**01 1001 **1111 000**0 1101 0**111 1000** 1000 10**11 010**0 0111 **1111 000**1 0001 0**111 1000** 1010 10**11**

C=5 (-) R/S=0/7 R/S=0/6 R/S=0/6 R/S=0/6 R/S=0/5 R/S=0/6 R/S=0/6

D=-31+12 (-)-127+40=-87 (-)-63+25=-38 (-)-63+26 (+)32+2=34 (-)-31+7=-24 (+)32+2=34 (+)32+10=42

[-19] [-87] [-38] [-37] [34] [-24] [34] [42]

**1100 0**001 100**1 00**10 0**110 10**01 111**1 1010** 0110 1**111 1101 10**00 11**11 010**1 0111 **01**11 **01**01 **1101 0**101 10**10 0**110 **100**1 01**10 11**10 01**10**

R/S=0/6 R/S=0/3 R/S=0/5 R/S=0/5 R/S=1/4 R/S=0/5 R/S=0/2 R/S=0/2 R/S=0/5 R/S=0/3 R/S=0/3 R/S=0/4

(-)-63+12=-51 (+)4 (-)-31+15=-16 (-)-31+13=-18 (-)-15+3=-12 (+)16+7=23 (+)2+1=3 (-)-3+1=-2 (+)16+6=22 (+)4+2=6 (+)4+1=5 (+)8+1=9

[-51] [4] [-16] [-18] [0, -12] [23] [3] [-2] [22] [6] [5] [9]

**11**00 01**10 11**00 11**00** 1**01**0 0**100** 111**1 00**00 1**100** 001**1 00**01 1**100** 011**0 1**01**0 1**11**0 1**11**0 1**00**1 00**01 0**01**1 1**00**1

R/S=0/4 R/S=0/4 R/S=0/1 R/S=0/2 R/S=0/3 R/S=0/3 R/S=0/3 R/S=0/3 R/S=0/3 R/S=0/2 R/S=0/2 R/S=0/2 R/S=0/2 R/S=0/3 R/S=0/2 R/S=0/1

(-)-15+1=-14 (-)-15+3=-12 (+)1 (-)-3 (+)4+3=7 (-)-7+1=-6 (-)-6 (-)-7+3=-4 (-)-4 (-)-3+1=-2 (+)2+1=3 (+)3 (-)-3 (-)-7+2=-5 (+)2+1=3 (+)1

[-14] [-12] [1] [-3] [7] [-6] [-6] [-4] [-4] [-2] [3] [3] [-3] [-5] [3] [1]

**01**01 **00**0**0 1**01**1 00**10 0**01**0 0**01**0 0**110 0**1**10 0**001 **00**1**1 1111 1100 0**10**0 1**00**1 100**0 **00**1**1 1101 0**1**00** 1**00**1

R/S=0/2 R/S=0/1 R/S=0/2 R/S=0/3 R/S=0/2 R/S=0/2 R/S=1/1 R/S=0/3 R/S=0/1 R/S=4/2 R/S=0/2 R/S=1/1 R/S=0/1 R/S=3/1 R/S=0/1 R/S=0/1

(-)-3+1=-2 (-)-1 (-)-3+1=-2 (+)4 (-)-3 (-)-3 (+)1 (-)-7+1=-6 (+)1 (+)2 (-)-3 (-)-1 (+)1 (+)1 (+)1 (+)1

[-2] [-1] [-2] [4] [-3] [-3] [0, 1] [-6] [1] [0, 0, 0, 0, 2] [-3] [0, -1] [1] [0, 0, 0, 1] [1] [1]

**00**0**1 010**

R/S=0/1 R/S=0/0

(-)-1

[-1] [EOB]

**Cb Component**

**1 1110** 0101 0**110 00**10 01**10 10**10 0**111 010**0 **01**1**1 011**1 **1101 0**1**11 1111 1010** **1101 0**0**00**

C=5 (-) R/S=0/4 R/S=0/3 R/S=4/1 R/S=0/1 R/S=1/1 R/S=2/1 R/S=F/0 R/S=2/1 R/S=0/0

D=-31+10=-21 (+)8+1=9 (+)4 (-)-1 (+)1 (+)1 (+)1 (-)-1

[-21] [9] [4] [0, 0, 0, 0, -1] [1] [0, 1] [0, 0, 1] [16\*0] [0, 0, -1] [EOB]

**Cr Component**

**1110** 0100 **1100 1**010 11**10 11**1**1 00**10 **1010** 001**0 1**0**01** 1**111 010**1 **1101 0**1**10 11**1**1 011**1 **1101 1**1**11 011**1 **1110 10**11 1111 1010 0111 1001

C=4(-) R/S=0/5 R/S=1/1 R/S=0/2 R/S=0/3 R/S=0/1 R/S=0/1 R/S=4/1 R/S=2/1 R/S=1/1 R/S=1/1 R/S=3/1 R/S=3/1 R/S=4/1

D=-15+4=-11 (-)-31+11=-20 (+)1 (+)2 (-)-7+1=-6 (-)-1 (+)1 (+)1 (+)1 (+)1 (+)1 (+)1 (+)1 (+)1

[-11] [-20] [0, 1] [2] [-6] [-1] [1] [4\*0, 1] [0, 0, 1] [0,1] [0, 1] [3\*0, 1] [3\*0, 1] [4\*0, 1]

0001 1010 1100 1011 1010 0000 0110 1010 0011 1110 0010 0111 1101 0100 1011 0100 1110 1101 0001 0111 0100 1101 1001 0010 0101 1001 1010 1110 0010 1110 1011 0101 0000 0010 1011 0011 0101 1101 1100 0010 0001 1100 0100 0110 1100 1000 1100 0111 1111 1101 0111 0010 0000 0010 1010 1011 1011 0101 0100 0010 0000 1110 0100 1001 1110 1100 0011 0010 0111 0001 1100 0101 0111 0010 0100 1110 1010 0100 0110 1001 1100 0001 1100 1010 0100 1111 1111 1010 1111 1101 0100 1111 0101 0010 0011 0001 0111 0011 0110 1001 0100 0101 0110 1011 1111 1101 0111 1101 1101 0110 0011 1000 0101 1111 0001 1010 1111 1100 0011 0110 1011 1000 1001 1011 1100 0100 0101 0111 1100 1111 0001 0110 1000 1110 0010 1110 1001 0011 0111 0110 1101 1111 0011 0100 1010 0010 1111 0011 1011 0100 1001 0001 1101 1101 0100 1111 0101 0000 0011 0011 1111 0101 0011 0101 1000 1100 0110 0111 0001 0110 1010 1111 0111 0010 1010 0011 0101 0010 1010 0101 0011 0101 0110 0100 1101 1010 0011 1111 1111 1111 1101 0001

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**<mcu7> Y Component**

**1111 10**00 1111 11**11 1100 0**000 0001 1110 0011 1000 1101 0110 1011 1100 0001 1001 1110 0010 0010 1111 0001 1010

C=8 (-) R/S=0/6

D=-255+63=-192 (-)-63

[-192] [-63]

0110 1010 0001 0110 0000 1001 0110 0111 1010 1000 1100 0100 1111 1010 1001 1101 1110 0110 1010 1101 0111 1011 1010 0100 1110 1010 0101 0110 1100 1001 0011 1101 1001 1101 1100 1011 1101 1000 1101 1001 0111 1001 0011 0000 0100 0011 0010 1100 0010 0000 0010 1111 1110 1110 1000 0000 1000 1001 0000 1110 1101 0101 0010 0000 1110 0100 0111 0101 1100 0110 0100 0101 0111 1000 1001 1001 1000 0101 0110 0111 0000 1010 0010 1010 1010 0101 1001 0011 0111 0110 0101 1010 0011 1101 1011 0101 0111 1101 1000 1111 1001 1011 1010 1011 1000 1011 1010 1001 1000 0111 1010 0011 1100 1101 0000 0111 0110 1011 0100 0111 1111 1110 0000 1001 1110 1101 0011 1111 0000 0100 1011 1110 0010 0110 0111 1000 1100 1111 0101 1100 1111 1000 1011 1011 1010 0000 1011 0101 1101 0110 1010 1110 1101 0000 1101 1011 1101 1010 0101 1110 0101 1111 1101 1011 0101 1011 0101 1000 0101 1011 1010 1010 1100 0111 0000 0010 1100 0001 0010 1011 0100 1111 0010 1011 0100 0100 1100 1010 0000 0110 0101 1101 0111 1010 0010 1000 1101 1110 0100 1110 0001 0101 0101 0100 0111 0110 0001 0101 1001 0110 0110 1101 0100 1110 0001 0010 1010 0011 0010 0100 1101 0010 1011 0110 1001 1101 0011 0110 1110 1011 0111 0100 0111 1011 0001 1001 0101 0101 0110 1010 1001 1111 0101 1010 1000 0100 1011 1001 1001 1110 1100 1111 0100 1011 1110 1000 1111 0100 1110 1010 1000 1111 1011 1110 0111 1100 0101 0101 0110 1111 0001 1000 1101 0110 0010 0110 1001 0000 0010 1000 0000 0110 0111 0100 0100 1001 0101 1100 0110 1101 0101 1100 0110 1110 0110 0001 1100 1110 0011 1000 1110 0000 0101 0111 1100 1101 1101 0010 1001 1011 1110 0101 0100 0111 1101 0101 1101 0100 1010 0110 1011 1001 1001 1001