|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| r1 | r2 | i1 | r3 | i2 | i3 | i4 | S |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 |  |
| x |  | x |  | x |  | x | s1 |
|  | x | x |  |  | x | x | s2 |
|  |  |  | x | x | x | x | s3 |

s1 = r1⊕i1⊕i2⊕i4 = 1

s2 = r2⊕i1⊕i4⊕i4 = 0

s3 = r3⊕i2⊕i3⊕i4 = 1

Ошибка в i2 -> правильное сообщение 0000000

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| r1 | r2 | i1 | r3 | i2 | i3 | i4 | S |
| 1 | 0 | 1 | 0 | 1 | 1 | 0 |  |
| x |  | x |  | x |  | x | s1 |
|  | x | x |  |  | x | x | s2 |
|  |  |  | x | x | x | x | s3 |

s1 = 1

s2 = 0

s3 = 0

S = 100

Ошибка в r1 -> 0010110

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| r1 | r2 | i1 | r3 | i2 | i3 | i4 | S |
| 0 | 1 | 0 | 1 | 0 | 0 | 1 |  |
| x |  | x |  | x |  | x | s1 |
|  | x | x |  |  | x | x | s2 |
|  |  |  | x | x | x | x | s3 |

s1 = 1

s2 = 0

s3 = 0

S = 100

Ошибка в r1 -> правильное сообщение 1101001

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| r1 | r2 | i1 | r3 | i2 | i3 | i4 | S |
| 0 | 0 | 1 | 0 | 1 | 1 | 1 |  |
| x |  | x |  | x |  | x | s1 |
|  | x | x |  |  | x | x | s2 |
|  |  |  | x | x | x | x | s3 |

s1 = 1

s2 = 1

s3 = 1

S = 111

Ошибка в i4 -> правильное сообщение 0010110

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| r1 | r2 | i1 | r3 | i2 | i3 | i4 | r4 | i5 | i6 | i7 | i8 | i9 | i10 | i11 | S |
| 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |  |
| x |  | x |  | x |  | x |  | x |  | x |  | x |  | x | s1 |
|  | x | x |  |  | x | x |  |  | x | x |  |  | x | x | s2 |
|  |  |  | x | x | x | x |  |  |  |  | x | x | x | x | s3 |
|  |  |  |  |  |  |  | x | x | x | x | x | x | x | x | s4 |

s1 = xor(r1, i1, i2, i4, i5, i7, i9, i11) = 1

s2 = xor(r2, i1, i3, i4, i6, i7, i10, i11) = 0

s3 = xor(r3, i2, i3, i4, i8, i9, i10, i11) = 1

s4 = xor(r4, i5, i6, i7, i8, i9, i10, i11) = 1

Ошибка в i9 -> правильное сообщение 001110010100000