

3998

$$X = -17 \quad Y = 5 \quad Z = X \cdot Y$$

$$n = 12b$$

$$k = 4b$$

$$m = 8b$$

$$X = -010001 \cdot 2^5 = 10001 \quad H = 8 + 5 = 13$$

$$Y = 0101 \cdot 2^3 = 101 \quad H = 8 + 3 = 11$$

$$\begin{array}{r} 1101 \\ + 1011 \\ \hline 10000 \\ - 1000 \\ \hline 10000 \end{array}$$

$$\begin{array}{l} X = 1 \mid 1101 \mid 1000100 \\ Y = 0 \mid 1011 \mid 1010000 \end{array}$$

$$\begin{array}{l} M_H = 01000100 \\ M_m = 01010000 \end{array}$$

$$\begin{array}{r} \Sigma = 00000000 \quad 01010000 \rightarrow 4 \text{ normal} \\ 00000000 \quad 00000101 \\ + 01000100 \\ \hline 01000100 \quad 00000101 \rightarrow \\ 00100010 \quad 00000010 \rightarrow \\ 00010001 \quad 00000001 \\ + 01000100 \\ \hline 01010101 \quad 00000001 \rightarrow \\ 00101010 \quad 10000000 \end{array}$$

$$\begin{aligned} M_z &= 0, 0101010100000000 \quad \text{ненорм.} \\ M_z &= 0, 1010101000000000 \quad \leftarrow \\ M_z &= 0, 1010101 \end{aligned}$$

$$H_z = (5p) - 2' = 10000 - 1 = 1111$$

$$1 \mid 1 \ 1 \ 1 \ 1 \mid 1010101$$

$$-0, 1010101 \cdot 2^{15-8} = -1010101 = -85_{(10)}$$

заг 9

$$X = -17,25 \quad Y = 5,375 \quad Z = X^* Y$$

$$n = 16b$$

$$k = 5b$$

$$m = 11b$$

2^{16-1} + перенос

$$X = 10001,01 = -0,1000101 \cdot 2^5 \quad H = 5 + 16 = 21$$

$$0,375 \cdot 2 = 0,750$$

$$0,75 \cdot 2 = 1,50$$

$$0,5 \cdot 2 = 1,0$$

$$Y = 101,011 \quad 0,101011 \cdot 2^3 = 101011 \quad H = 3 + 16 = 19$$

WA VA

$$21:2 = 10 \ (1)$$

$$10:2 = 5 \ (0)$$

$$5:2 = 2 \ (1)$$

$$2:2 = 1 \ (0)$$

$$1:2 = 0 \ (1)$$

$$\begin{array}{r} 010101 \\ + 010011 \\ \hline 101000 \end{array}$$

$$19:2 = 9 \ (1)$$

$$9:2 = 4 \ (1)$$

$$4:2 = 2 \ (0)$$

$$2:2 = 1 \ (0)$$

$$1:2 = 0 \ (1)$$

X 1 | 10101 | 1000 101000

Y 0 | 10011 | 1010110000

$M_H = 01000101000$

$M_m = 01010110000$

добавь знаковый бит (как положительная - 0)

$\Sigma =$	00000000000000	01010110000	4
Σ	00000000000000	00000101011	IV
	01000101000		
	01000101000	00000101011	
	00100010100	00000010101	
+	01000101000		
	01100111100	00000010101	
	00110011110	00000001010	V
	00011001111	00000000101	VII
	01000101000		
	01011110111	00000000101	
	00101111011	10000000010	VIII
	00010111101	11000000001	IX
	01000101000		
	01011100101	10000000001	
	00101110010	11000000000	X

$M_Z = 0, 00101110010$

$M_Z = 0, 1011100101$

← норм.

$H_Z = 11000 - 1 = 10111$

110111011100101

$$Z = -0, 1011100101 \cdot 2^{3-16} = -1011100, 101(\lambda) = -92,625$$

3ag 10

$$X = 30 \quad y = 5 \quad Z = X \cdot y = ?$$

$$n = 12b$$

$$k = 4b$$

$$m = 8b$$

$$30 : 2 = 15(0)$$

$$15 : 2 = 7(1)$$

$$7 : 2 = 3(1)$$

$$3 : 2 = 1(1)$$

$$1 : 2 = 0(1)$$

$$X = 0, 11110 \cdot 2^5 = 11110 \quad H = 8 + 5 = 13 \quad 1101$$

$$y = 0, 101 \cdot 2^3 = 101 \quad H = 8 + 3 = 11 \quad 1011$$

$$1101$$

$$X = 0 \quad 1101$$

$$1111000$$

$$1011$$

$$y = 0 \quad 1011$$

$$1010000$$

$$11000 - 10000 = 10000$$

$$u = 0111000$$

$$m = 0101000$$

$$Z = 00000000 \quad 01010000$$

$$00000000 \quad 00000101$$

$$01111000$$

$$01111000 \quad 00000101$$

$$00111100 \quad 00000010$$

4
1010

1010

0111000 00000010

0001110 00000001 VI

0111000

S=1 P=0 1001010 00000001

V=1 0100101 00000000 VII

S=1.01 нормализуване

20 Mz 0,1001011

Mz=1 1000

пренормиране при мащаба запис