

① -7 ECC 16 5 bit

$$-7 + 16 = 9$$

$$9 = 01001$$

② +9 1m CP1 6 bit

$$+9 \rightarrow 9 \rightarrow 001001$$

③ VM = 8 bit

1 bit x SEGNO

4 bit x ESPO ECC 8

3 bit x MANTISSA NORM $1 < x < 2$

-7 1m VM

$$-7 \rightarrow 7 \rightarrow 0111 \rightarrow 1001 \text{ CP2}$$

• SEGNO: 1

$$1001$$

• ESPO: $3 + 8 = 11 \rightarrow 1011$

• MANT: 001

NUM. FINALE: 11011001

④ 1F CP2 IN VM

$$\begin{array}{cc} 1 & F \\ 0001 & | \quad 1111 \end{array}$$

• SEGNO: 0

• ESPO: $4 + 8 = 12 \rightarrow 1100$

• MANT: 111

⑤ $E_A = 2^0 = 1$

⑥ DIST HAMMING X CORREGGERE 1 ERR DI 1 BIT

$$m.err = (h-1)/2 \rightarrow 1 = (h-1)/2 \rightarrow 2 = h-1 \rightarrow h=3$$

$$h=3$$

⑦ DIST HAMMING MINIMA 4 ERR 1 BIT RILEV

$$m.err = h-1 \rightarrow 4 = h-1 \rightarrow h=5$$

⑧ NUM BIT CONTROLLO DA AGGIUNGERE A UN CODICE DI LUNG
5 X RILEVARE ERR SINGOLI

1

⑨ 11 ERR POSSIBILE CORREGGERE

$$\left. \begin{array}{l} \text{NELLE CODIFICHE } 001 \\ 010 \\ 100 \end{array} \right\} h=2 \quad m.err = (h-1)/2 = 0$$

⑩ $x = 5 \text{ istn GB}$
 $y = 100 \text{ istn GB}$
 $t_{ac} = 2 \text{ msec}$
 $t_{am} = 20 \text{ msec}$
 $t_{nas} \text{ 64 B}$

⑪ $CHR_x = \frac{7-1}{7} = 85,7\%$

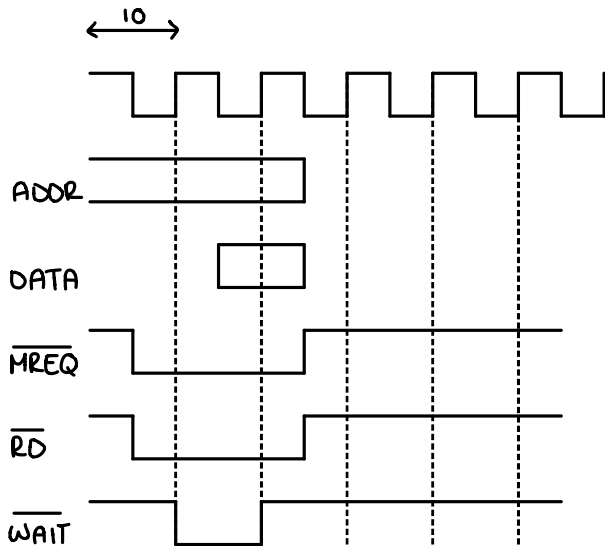
⑫ $CHR_y = \frac{102-1}{102} = 99\%$

⑬ $T_{AM_x} = C + (1-H) \times M = 5 \text{ msec}$

⑭ $T_{AM_y} = C + (1-H) \times M = 2,2 \text{ msec}$

⑮ BUS 100 MHz LINEE SEPARATE DATI E INDIRIZZI
 SINCRONO
 TRISP 15 msec DA ASSERT MREQ LETTURA

$1000/100 = 10 \text{ msec}$



⑮ 10 msec

⑯ 25 msec

⑰ 30 msec

⑱ $1000/50 = 20 \text{ msec}$
 60 msec