1A3

0001 1040 0011

7A1
7 A 1
0111 1010 0001
1000 0101 1111

· SEGNO: 0, 1 bit

· ESPO: 7 -> 0111, 4 bit -> 2 -- 5 bit

· MANT : 8 bit

• SEGNO: 1 , 1 bit • ESPO: 5, 5 bit

· MANT: 6 bit

X:Y:Z 1:5:8

- (4) EA = 20+2' = 3
- (5) CISC 10 STATI PIPELINE
 CLOCK 2 GH2
 MULTITHREADING

T = 1000 / 2000 = 0.5 msec1000 / T = 2000 MIPS

- 6 TEXEC SISTA GISTA M*T = 0,5 × 10 = 5 MSEC TEXEC = 5.2+0,5.7
- 1000/T = 2000 MIPS
- (I) A B C Y

 O O O O (NOT(A) AN

 O O O O (Ā· ō· C)

 O I I O O

 I O O O

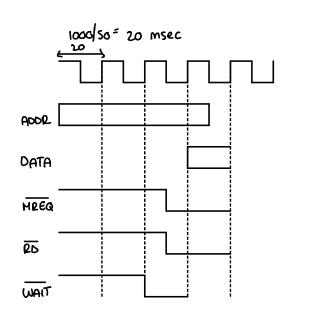
 I O I O

(NOT(A) AND NOT (B) AND C) OR (A AND D AND NOT (C)) OR (A AND B AND C)

(A.B.C)+(A.B.C)+(A.B.C)

TESTA SE CIE UN SOLO 1

BUS SINCRONO 50 MHZ LINEE SEPARATE
TRISP 60 MSEC INDIR STABILI



- (4) GO MSEC
- (15) 70 msec
- 6 80 msec
- 1 FALSO

A A 3

7A4 0111 1010 0001 -1000 0000 0000 = 1111 1010 0001

111 1010 0000 = 14 0111 1010 0000

0001 1010 0011

- · 1 bit seguo 2m-1
- · 8 = 23 = 1000 = 4 bit + 1 = 5 bit espo
- · 8 bit mantissa

- · 1 bit x seguo
- . 6 = 0110 -> 5 bit x SEGNO
- · 6 bit mantissa

- 3 B IM ALFA
- (4) EA = 20+21 = 3

1 A 3

11/11 1010 0001

0001 1010 0011

· 1 bit x segno

. SEGNO: 0

· 10= 0110 = 00110

· ESPO

- ·11101000
- 8 = 01000
- . HANT: 1010 0011

PIPELINE 10 STADI M=2GHZ

- (5) T = 1000/2000 = 0,5 msec F(MIPS) = 2000 HIPS
- 6 TEXEC 5 1sta e 4 1sta m+T = 5 msec

TEXEC = 5+0,5.8 = 9 msec

- (1) F(HIPS) com 5 stadi
- 8 FALSO
- 9 c
- (1) LRU-> C
- (1) C Y (NOTA AND NOTO AND C) OR (AAND BAND NOTC) OR (A AND O AND C) Q O ß 0 1 ٥ 0 ı 1 0 0 0 0 0 0 1 ı ٥ 1
- (1) (NOT A AND B AND NOT C) = 0
 - · (NOT A AND NOT & AND C) OR (A AND B) | B

U4 X2 XOR X1 U₂ U₄ XOR X₁ 0 X2 X1 X0 0 0 0 Ø ٥ ٥ ١ 0 ١ ٥ G Q ı σ 1 0 v3 V2 4 0 BCABC (A AND B) U2 0R U3 0 0 O QUA FU A ANDB ٥ 1 O 0 0 1 ١ 0 1 O 0 0 1 0 Q 0 0 Q ٥ 0 0 0 0 0 0 0 0 O 0 ١ 0

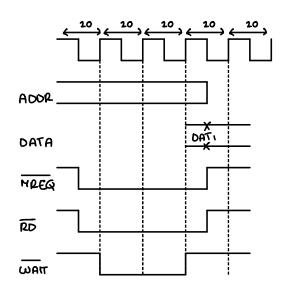
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1

BUS SINCRONO SO MHZ TRISP 60 MSEC da IND STABILI

1000/50 = 20 msec



DATA { da lettura imizia sempre sul fronte di discesa successivo

MREQ e RD partono sul fronte di

- (4) GO MSec
- (5) 70 msec
- (6) 80 msec
- (7) FALSO