$\underline{11}$ | $A_{BUS} = 20$ bit $\rightarrow$ INDIRIZZI SU 20 bit

CELLA $= 4$ byte $\&$

MAX MEM. ?

$$2^{20} = 1024 \cdot 1024 = 1048576 \text{ INDIRIZZI}$$

MAX MEM $= 4$ BYTE $\cdot 2^{20} = \underline{4 \text{ MB}}$

13)

$$MEM = 4 MB$$
$$A_{BUS} = 16 \text{ bit}$$

$KB = 2^{10}$

$MB = 2^{20}$

$GB = 2^{30}$

PARALLELISMO $\longrightarrow$ DIM. CELLA DELLA MEMORIA

$$MEM = DIM. CELLA \cdot 2^{A\,BUS}$$

$$\Rightarrow \quad DIM. CELLA = \frac{MEM}{2^{A\,BUS}} = \frac{4\,MB}{2^{16}} = \frac{4 \cdot 2^{\overset{1}{20}}}{2^6 \cdot 2^{10}} = \frac{2^{12}}{2^6} = 2^6 = 64 \text{ BYTE}$$

19|

$$MEM = 64\,KB$$

$$A_{BUS} = 12\;bit$$

$$PARALLELISMO = \frac{MEM}{2^{A_{BUS}}} = \frac{2^6 \cdot 2^{10}}{2^{12}} = 2^4 = 16 \;\text{BYTE}$$

21|

MEM = 4MB

PARAL. = 16 bit

A BUS = ?

MEM = PARALL. $\cdot 2^{\text{A BUS}}$

A$_{BUS}$ SEMPRE IN BIT

OOO $\rightarrow 2^3$

$$2^{\text{A}_{BUS}} = \frac{MEM}{PARAL} = \frac{4MB}{16 \, bit} = \frac{4MB}{2 \, Byte} = \frac{2^{22}}{2^1} = 2^{21} = 2MB$$

$$2^{\text{A BUS}} = 2^{21} \qquad A_{BUS} = 21 \, bit$$