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Value Z High Impedance (Hi-Z), Floating/non-connected 16 X Might Be A 0, 1, Z, Or In Transition, Or Don't Care Sometimes Useful Debug 5th, 2024

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Basic Computer Organization & Design 3 Computer Organization Computer Architectures Lab THE BASIC COMPUTER • The Basic Computer Has Two Components, A Processor And Memory • The Memory Has 4096 Words In It - $4096 = 2^{12}$, So It Takes 12 Bits To Select A Word In Memory • Each Word Is 16 Bits Long CPU RAM 0 4095 15 0 7th, 2024

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Computer Systems There May Be Different Forms Of “computation” • Example:
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Something That We Can View Programmable Computing Machine Or A Processor •
Executes A Given List Of Instructions 1th, 2024

5 Basic Computer Organization And Design

Basic Computer Organization And Design Section 5 Slides With White Background
Courtesy Of Mano Text For This Class 2 Mano’s Basic Computer ZMemory Unit With
4096 16-bit Words ZRegisters: AR, PC, DR, AC, IR, TR, OUTR, INPR, SC ZFlip-flops: I,
S, E, R, IEN, FGI, FGO Z3 X 8 Op Decoder And 4 X 16 Timing Decoder Z16-bit
Common Bus ZControl Logic Gates 6th, 2024

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Programs Access A Small Proportion Of Their Address Space At Any Time Temporal
Locality Items Accessed Recently Are Likely To Be Accessed Again Soon E.g.,
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