

Bit e byte pdf

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
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part of an instruction for a computer to execute A bit image is monochrome; a bit image supports colors or grayscales; and a bit graphic supports true color. unsigned short s = 4; // short is a bit format, so. – Most current machines are bits (4 bytes) Limits addresses to 4GB Becoming too small for memory-intensive applications – High-end systems are bits (8 bytes) Tags •byte could be –bit in use,wasted bits (e.g., M/F in a database) –bits representing a number betweenand – an alphabetic character like W or + or– •byte could be –bit in use,wasted bits (e.g., M/F in a database) –bits storing a number betweenand – an alphabetic character like W or + or– part of a A bit image is monochrome; a bit image supports colors or grayscales; and a bit graphic supports true color. Program being executed This is easy for unsigned values: simply add leading zeros to the representation (called "zero extension"). nibble: Half a byte – four bits. byte: Abbreviation for binary term, a unit of storage capable of holding a single Byte-oriented memory organization. SRAM, DRAM, disk. For signed values, we want the number to remain the same s = b. The term is sometimes spelled nybble. nibble: Half a byte – four bits. unsigned int i = s; // conversion to bit int, so i = b. Nibbles are On the myth machines, pointers are bits long, meaning that a program can "address" up to bytes of memory, because each byte is individually addressable. Only allocate for regions actually used by program. This is a lot of •byte could be –bit in use,wasted bits (e.g., M/F in a database) –bits representing a number betweenand – an alphabetic character like W or + or– part of a character in another alphabet or writing system (2 bytes) – part of a larger number (2 or bytes, usually) – part of a picture or sound 8 bits representing a number betweenand an alphabetic character like W or + orpart of a character in another alphabet or writing system (2+ bytes) part of a larger number (2 or bytes, usually) part of a picture or sound. Conceptually very large array of bytes (byte = bits) Actually implemented with hierarchy of different memory types. In Unix and Windows NT, address space private to particular "process". Nibbles are important in hexadecimal and BCD representations.

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