Tut 5: Q1. Consilyurkayi la' 1
Alle Store
Memory with has 256k words of B2 bits
Laster and region of the precise starily a put with me and I will
: 256 K words => 28,2'0 = 2!8
so 18 address bits.
apart from this or mode field to specify one of seven addressing modes.
modes.
to specify seven addressing mode we need 3 bits
100g w 100g 23 758-02 100g
30 fa Mode 7 3 bits
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60 processor régisters are thure
so corresponding required bits are 6. as 26 = 64!
the second of the state was the season of the contribution of the second
so out of 32 bits, 18 bits were used for address.
3 bits are used for specifying modes
6 bits one majister
total of 27 bits
total of 27 bits remaining bits are 32-27 = 5 bits.
: structure 5 6 3 18
opcode register modes address.
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Tut 5. Q2.
32 bit instructions
12 bit addresses.
so one word instruction greguires 12 bit addresses.
for two word or two address instruction it requires (12+12) bit.
Now instruction is of 32 bits.
this was dollar it is a series of the series
opcode Address! Address 2 -> two address instruction.
8 init $12 init$ = $32 inits$
- 1 18 6 1 500 BUT 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
so there are 8 bit for opcode
total no of possible combination for one and two address
instance of possible accompliance of
instructions can be 28 = 256.
If there are 250 two-address instructions
so possible no of one-address instruction = 256-250
1200 10 10 10 10 10 10 10 10 10 10 10 10 1
32 bit instruction 12 bit one address instruction
so in case of one address instruction operate Address Maximum no, of one address instruction = $6 \times 2^{12} = 24,576$
2116 X 212 12 Int.
Maximum no of one address instruction = 6 x 212 = 24,576
lut 5.
Q3. 24 bits address space \(\neg a. no. of words in address space = 224.
16 bits memory space > 6. no. of words in memory space = 26
c. a page com of 2k words
$= \frac{2^{24}}{2k} = \frac{2^{24}}{2} = \frac{2^{24}}{2 \cdot 2^{10}} = \frac{2^{13}}{2^{10}} = \frac{2^{13}}$
no. of blocks = 216/2k = 216/2.210 = 25
2.210 - 2 = 32 blocks.
- 52 6WW3.