EAX - automatically used by multiplication and division istructions. The Ax to be reduced. ECX - used as a loop counter EST and EDI - high-speed memory transfer instructions FBP - Used by high level languages to reference Enction parameters and lovel variables on the Stack EBX - Used in invexed addressing EDX - Used in inpulant put operation Theresisters that can be used in parts ane EAX, EBX, ECX, 9hd EDX, 2. I'm Sigh Elso - inhoicates arithmetic on 105:001
operation results in a negative result Zero flag - indicated grithmetic or logical expression results in o auxilliary cary Elag - Set when an operation caused a carry from a 3 bit to 4 bit in an parity Elag- indicates lent significant byte in the result contains an even number of when there is a possibility that 2919 might be corrupter overflow flag - Set when result of sighed arithmetic

is too large on too small to fit its destination

carry flas - set when unsigned arithmeticoperation is too large to fit into the restination Carry flag deals w/ unsigned arithmetic while overflow flag deals w/ sighout grithmetic Step 1: place the address of the value you want to read on the address buds

Step d. Assert the processor's RD pin

Step J. Wait one clock cycle for the memory Chips to respond Step 4' copy the data from the wata bus into the destination operand Cache memory is used to reduce the amount of time spent reading and writing monory. Cache stores the most recently used in high special memory for aviall access. The advantage to cache honory is that it faster than conventional RAM real address mode. Implements the programing environment of early Intel processor wy a few extra fectores. It has the ability to switch into other moves. This more is useful if a program rearies direct access to system nonery and harowere devius protected mode matter state of the processor in which all instructions and features are avaliable, In this programs from referencins memory outside their

3.

4

5

911. Shew soments

