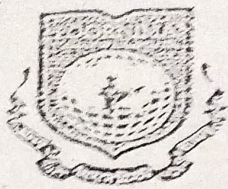


Binary Microprogram:-

- Symbolic microprogram is convenient for writing.
- But they can't be stored in memory.
- They should be translated to binary either by means of assembler program or by user.
- The binary microprogram listed in the word content of the control memory. When a ROM is used for control memory, the microprogram binary list provides the truth table for fabricating the unit.

Design of Control Unit:-

- Control Unit is a part of CPU, which direct the operation of the processor.
- It fetches internal instructions of the program from main memory to the processor instruction Register.
- Based on Register content, CU generates control signal that supervise the execution of these instructions.
- CU works by receiving i/p info - which convert into control signal, which are sent to the Central processor.

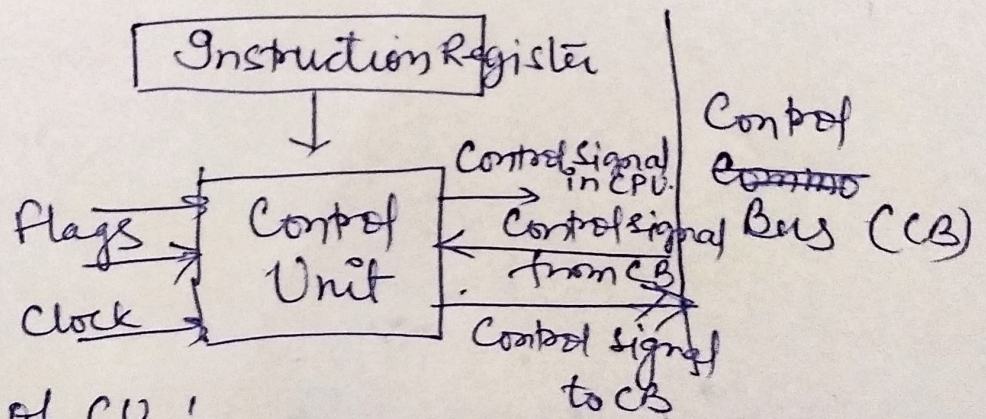


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DETAILED LECTURE NOTES

- Computer processor tells to attached hw what to perform -
- func that a control unit perform depend on the type of CPU.
 - Different type of CPU are
 - ↳ CPUs
 - ↳ GPU



Functions of CU :-

- ① Coordinates seq. of data movements into, out of and b/w processor's many sub-units
- ② Interpret Instruction
- ③ Control data flow inside the processor.
- ④ Receive external instruction or command to which it converts to seq. of control signals.
- ⑤ Control - ALU, Data buffer, Reg (within CPU)
- ⑥ Handle multiple task - fetching, decoding, storing.