CS 631-02 Static Analysis Circuit ROM - Instruction Memory Comparators Decoder Encoder (Priority Encoder) Instruction Occoding Instruction Momory PWGD-/ ADDRJ- 8

Comparator 1 hit comparator cq XOR XNOR 4 bit comparator

Decoder

$$Se^{1} \stackrel{?}{=} \stackrel{?}{$$

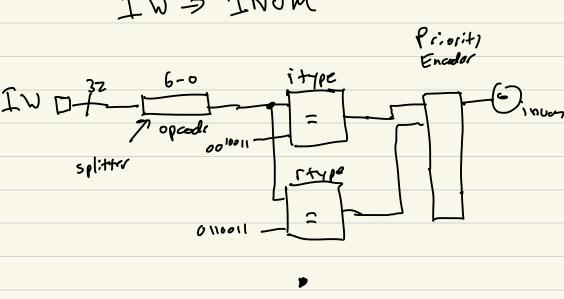
Encoder

$$a_0 + \frac{1}{2}$$
 $a_1 + \frac{1}{2}$
 $a_2 + \frac{1}{2}$
 $a_3 + \frac{1}{2}$

Priority Encoder

Analyze Decode

IND INUM



APPRI ADD R 2 Appr 0 add i Unimp add CLRXO THUO) ITYPE 0 RTTPE 0 -) add to, fi, te add: to, E1, 79 UN:MP