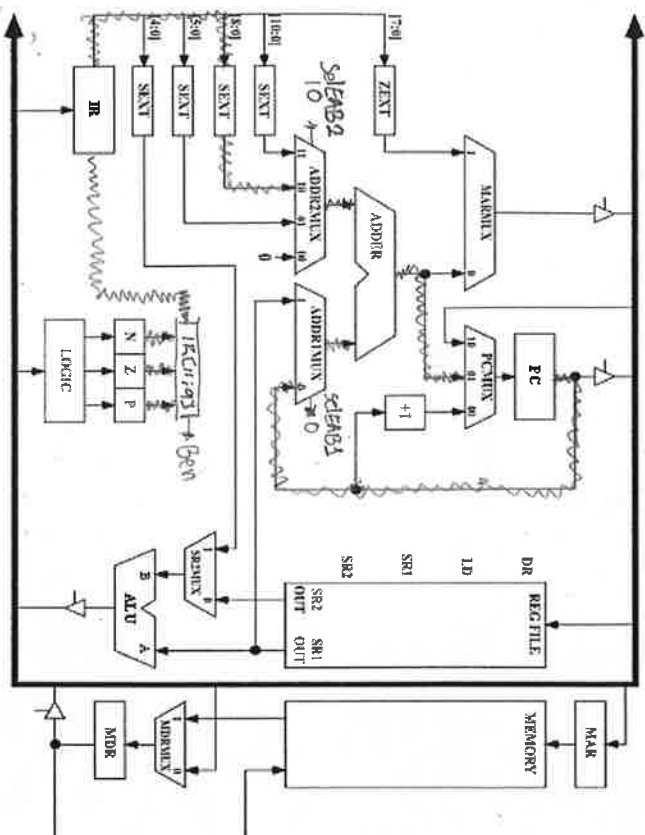


curState	IR[15:12]	IR[11]	nextState	aluControl	SR1	SR2	DR	selPC	selEAB1	selEAB2	enaALU	regWE	flagWE	enaMARM	selMAR	enaPC	ldPC	ldIR	ldMAR	ldMDR	selMDR	memWE	enaMDR	flagWE
fetch 0	x x x x	x	fetch 1	x	x x x	x x x	x x x									1			1					
fetch 1	x x x x	x	fetch 2					00									1		1		1			
fetch 2	x x x x	x	decode															1					1	
decode	0 0 0 0		branch																					
decode	0 0 0 1		add																					
decode	0 0 1 0		load																					
decode	0 0 1 1		store																					
decode	0 1 0 0		jump to subroutine																					
decode	0 1 0 1		and																					
decode	0 1 1 0		load relative																					
decode	0 1 1 1		store relative																					
decode	1 0 0 0		return from interrupt																					
decode	1 0 0 1		not																					
decode	1 0 1 0		load indirect																					
decode	1 0 1 1		store indirect																					
decode	1 1 0 0		jump																					
decode	1 1 0 1		reserved																					
decode	1 1 1 0		load effective address																					
decode	1 1 1 1		system call TRAP																					
branch	x x x x	branch 0	fetch 0						0 1 0															
branch 1	x x x x	branch 1	branch 1					01																
branch 1	x x x x		fetch 0														1							
add	x x x x		fetch 0	01	IR[8:6]	IR[2:0]	IR[11:9]				1	1											1	
load	x x x x		load 1						0 1 0					1	0					1				
load 1	x x x x		load 2																		1			
load 2	x x x x		fetch 0				IR[11:9]					1											1	
store	x x x x		store 1						0 1 0						0				1					1
store 1	x x x x		store 2	00	IR[11:9]						1									1	0			
store 2	x x x x		fetch 0																			1		
	x x x x																							

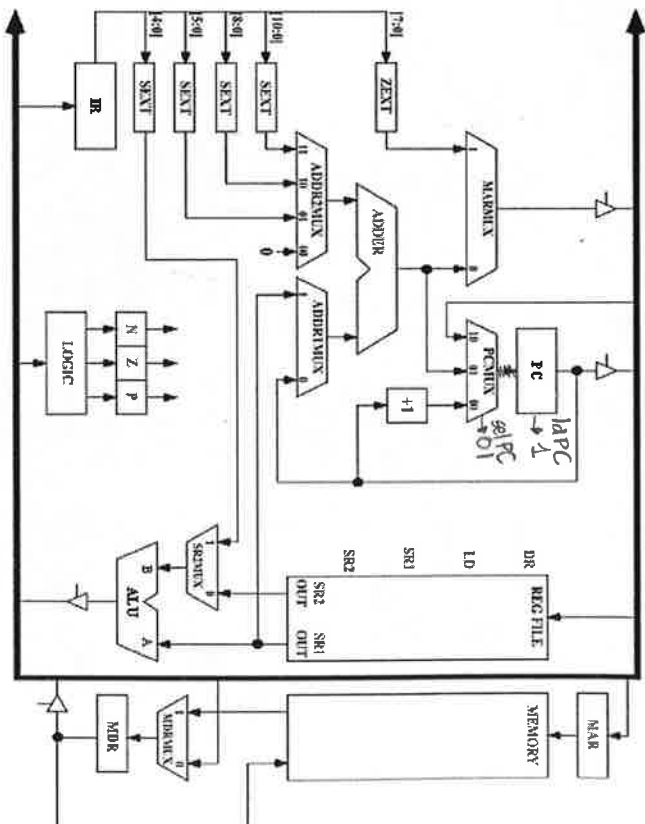
BR -
 ADD -
 LD -
 ST -
 JSR, JSR -
 AND -
 LDR -
 STR -
 R11 -
 NOT -
 LD1 -
 ST1 -
 JMP, RET -
 LEA -
 TRAP -

[illegible]

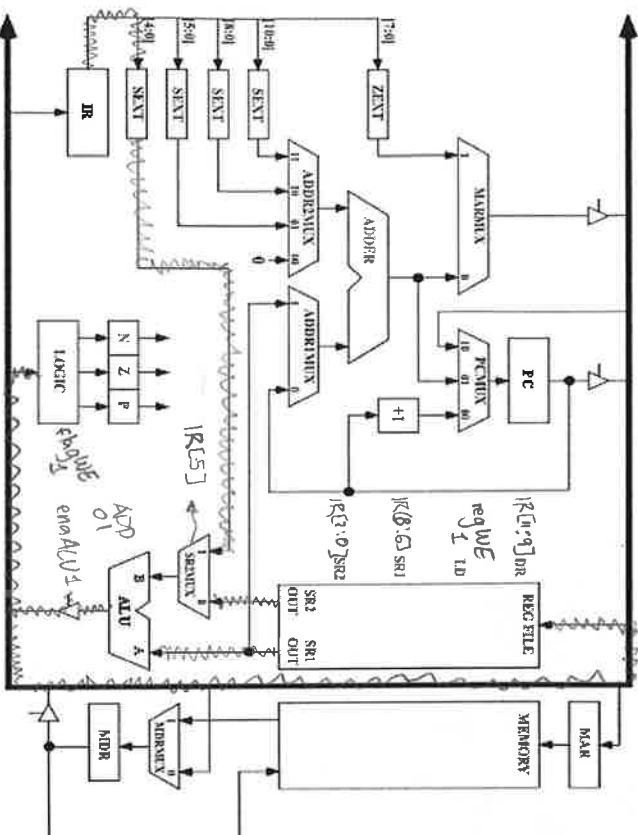
Branch



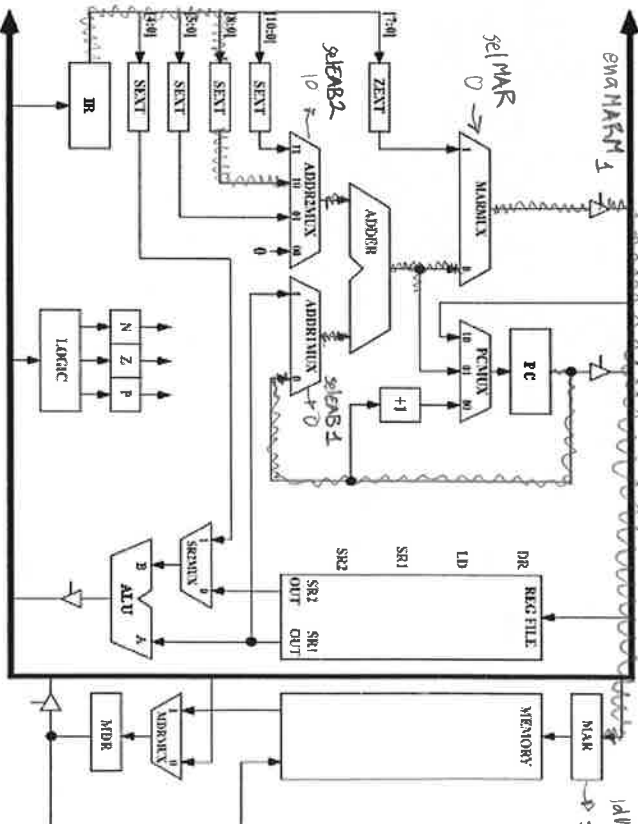
Branch 1



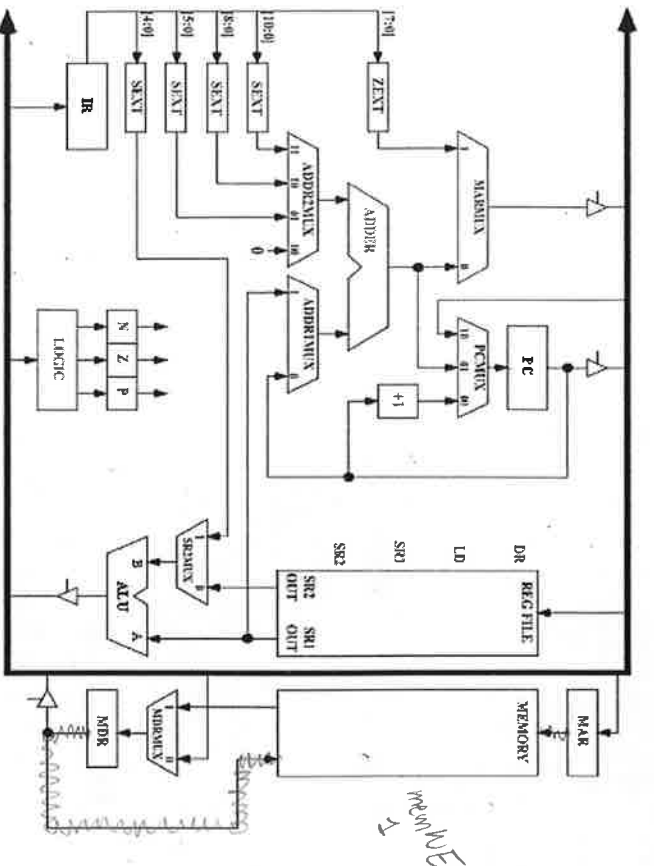
add



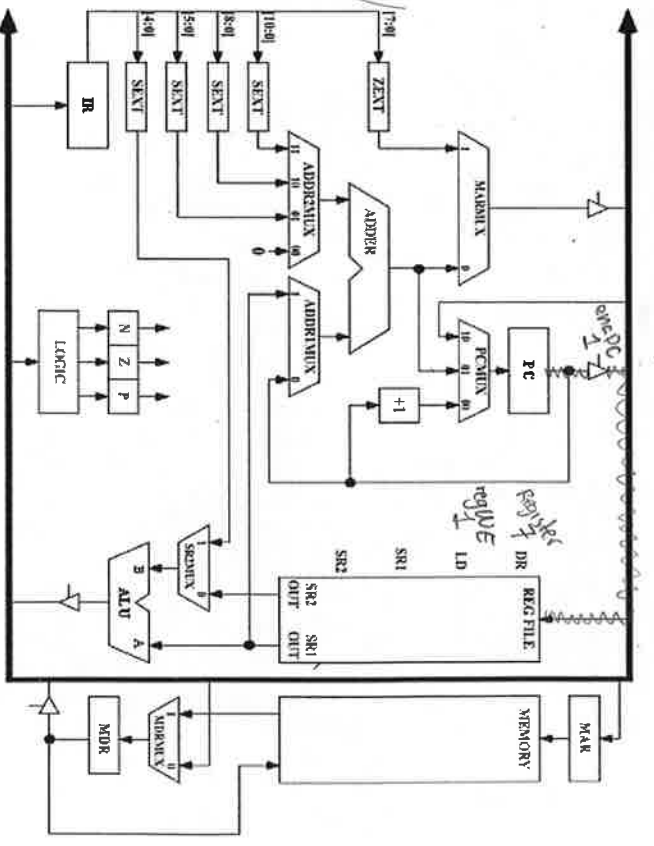
load



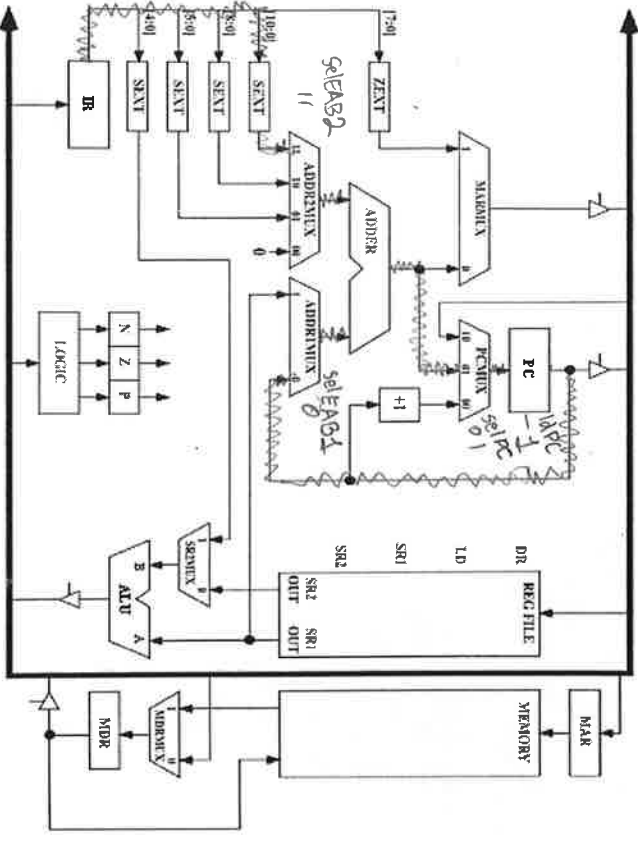
Store 2



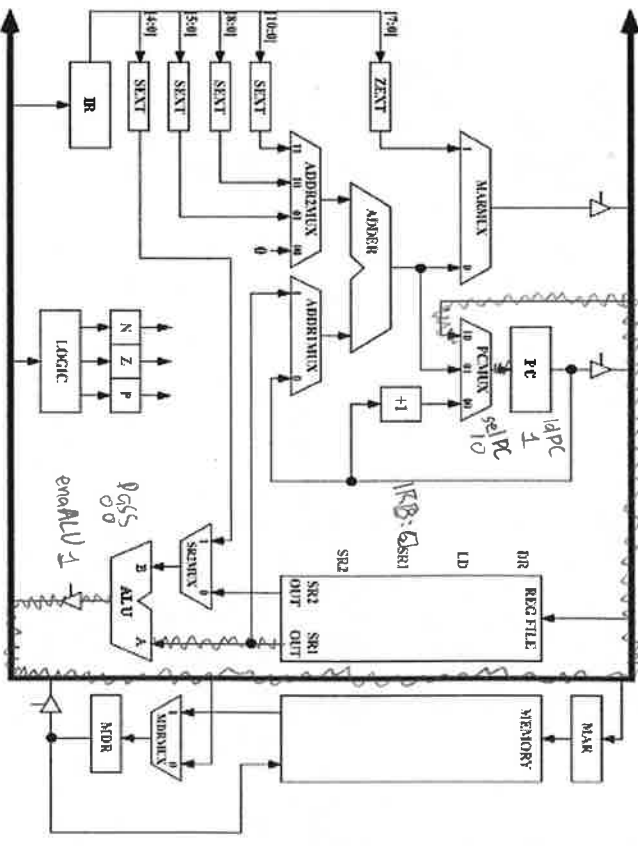
Jump to Subroutine



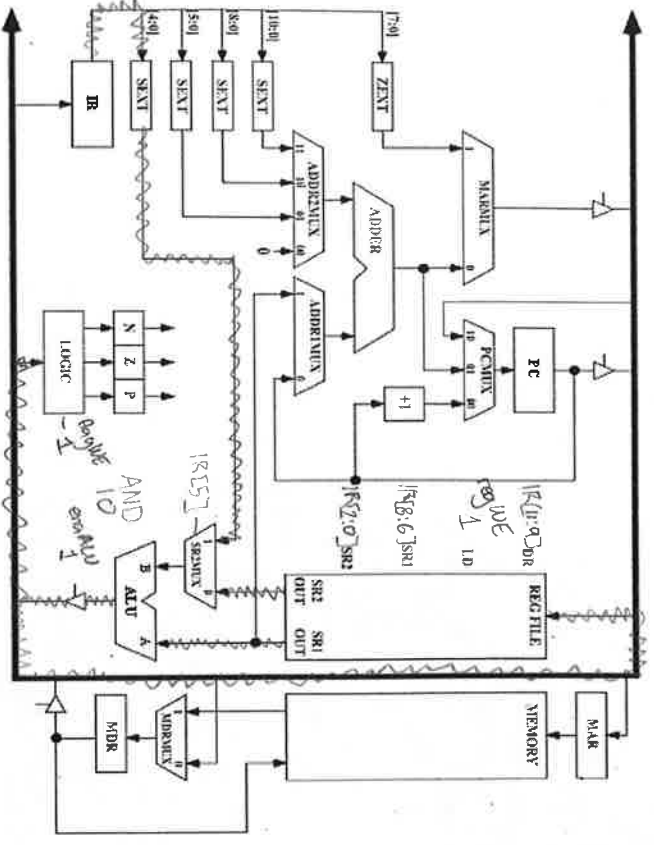
Jump to Subroutine Offset



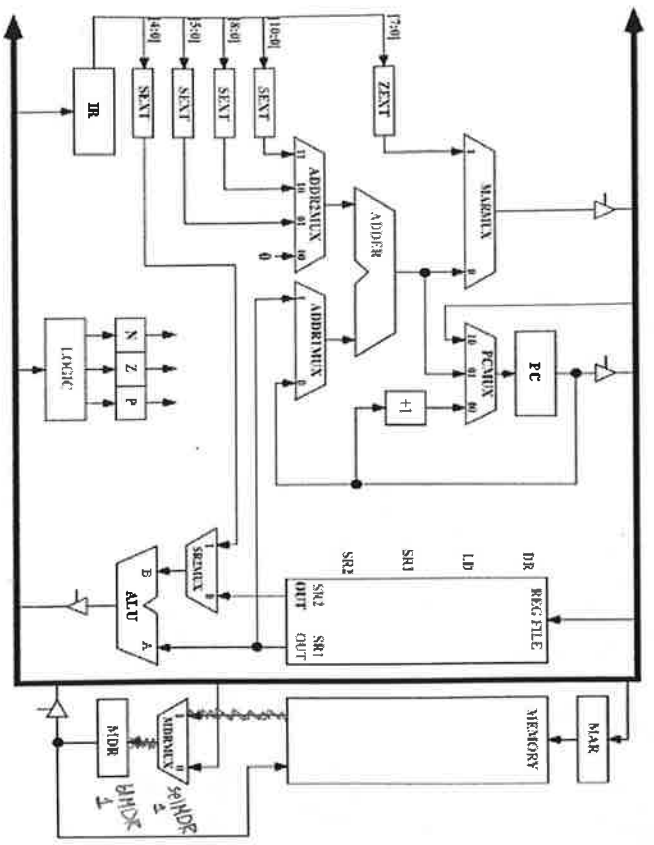
Jump to Subroutine Base R



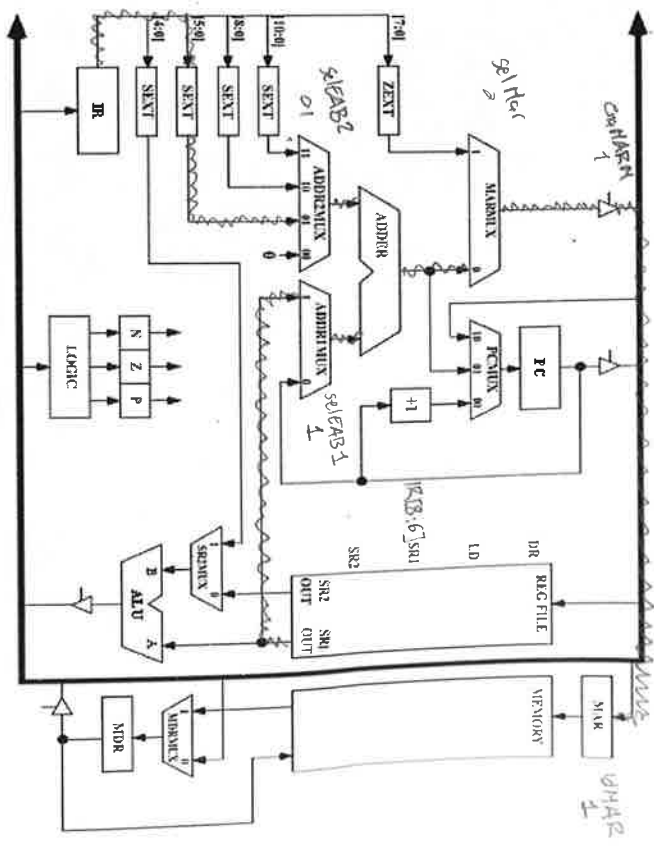
and



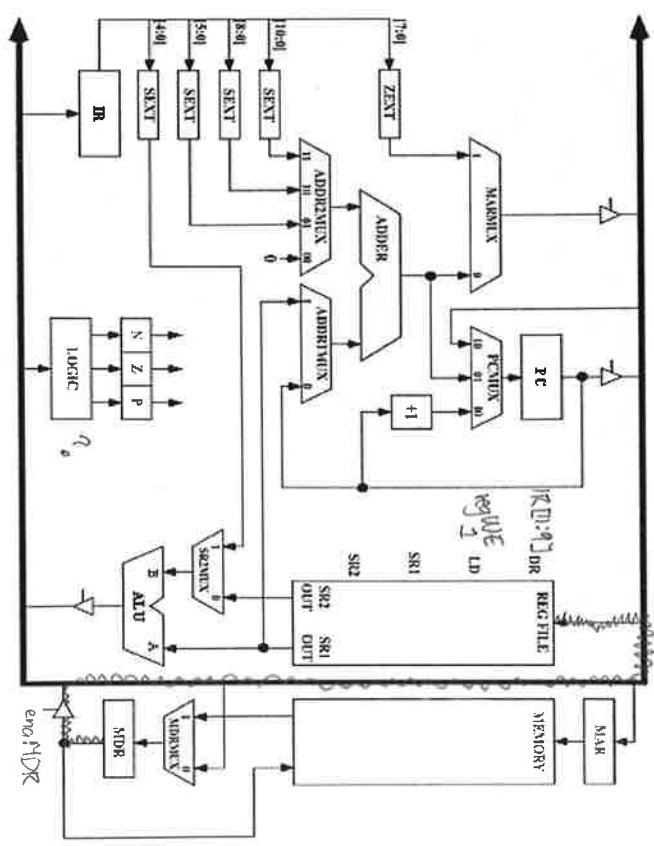
Load Relative 1



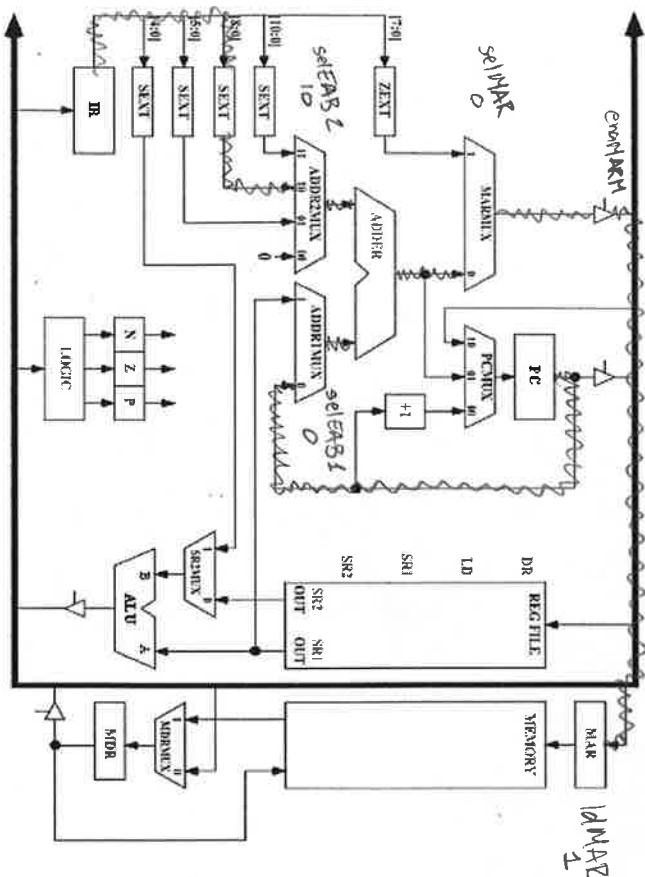
Load Relative



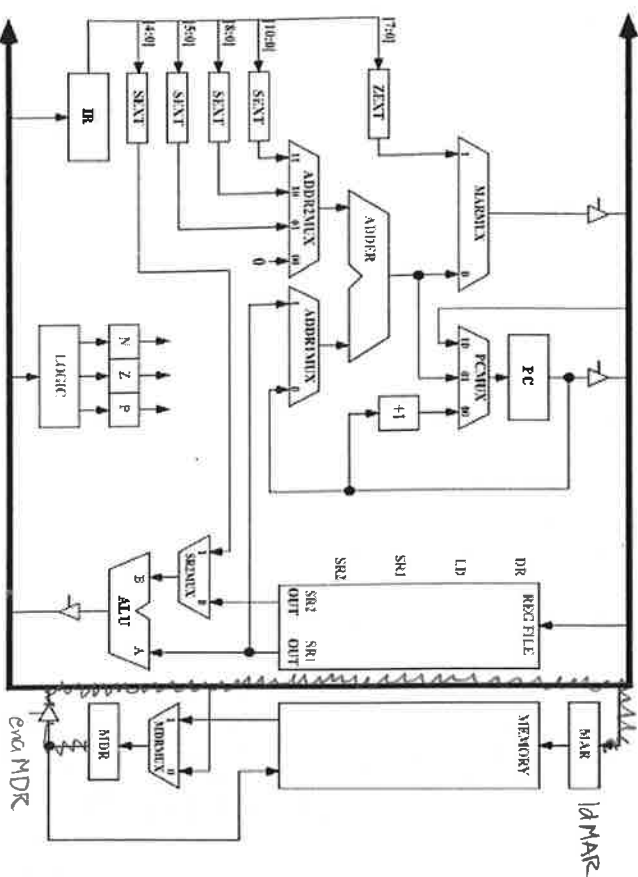
Load Relative 2



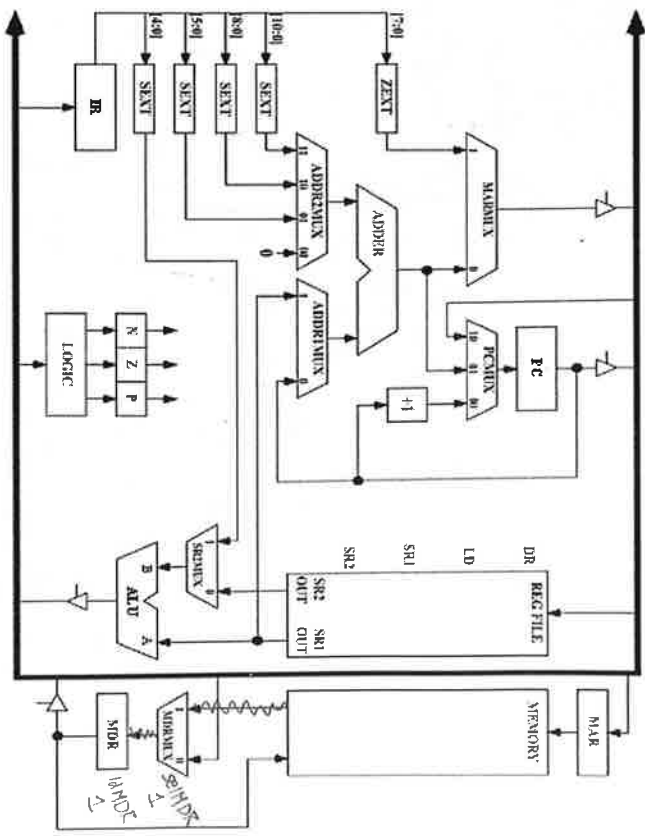
load indirect



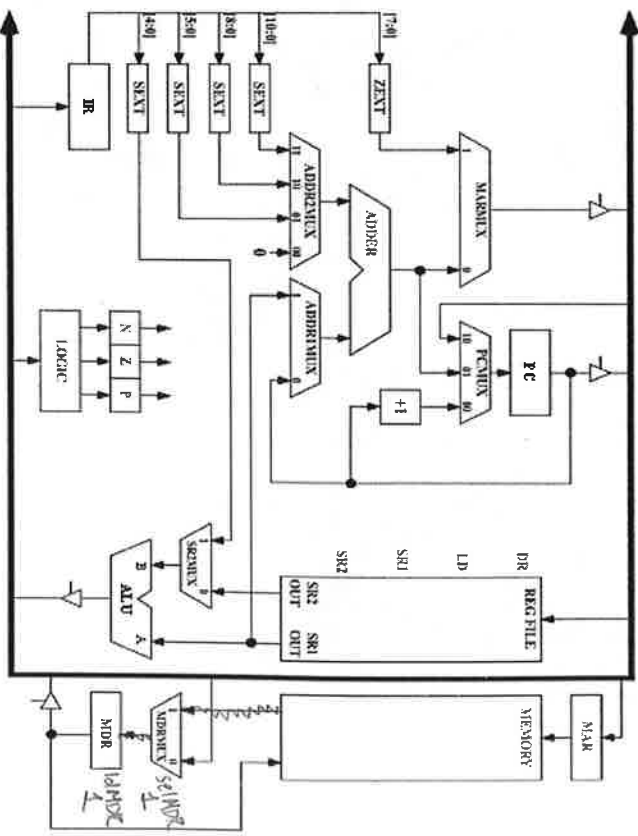
load indirect 2



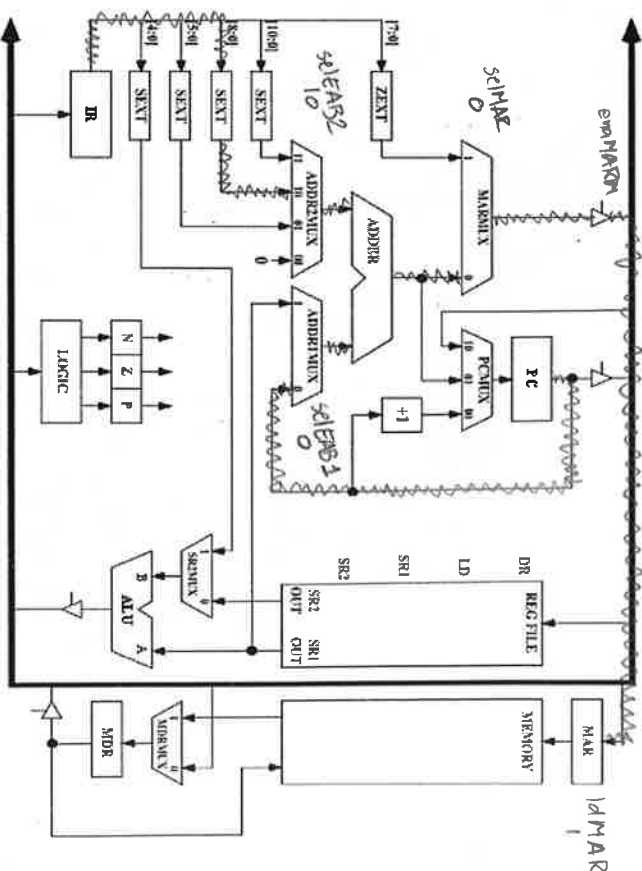
load indirect 1



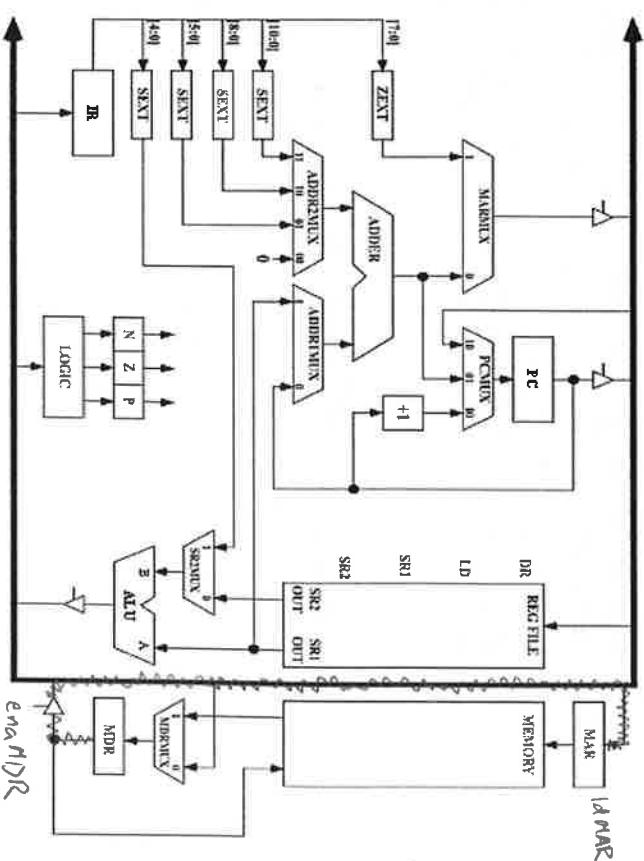
load indirect 3



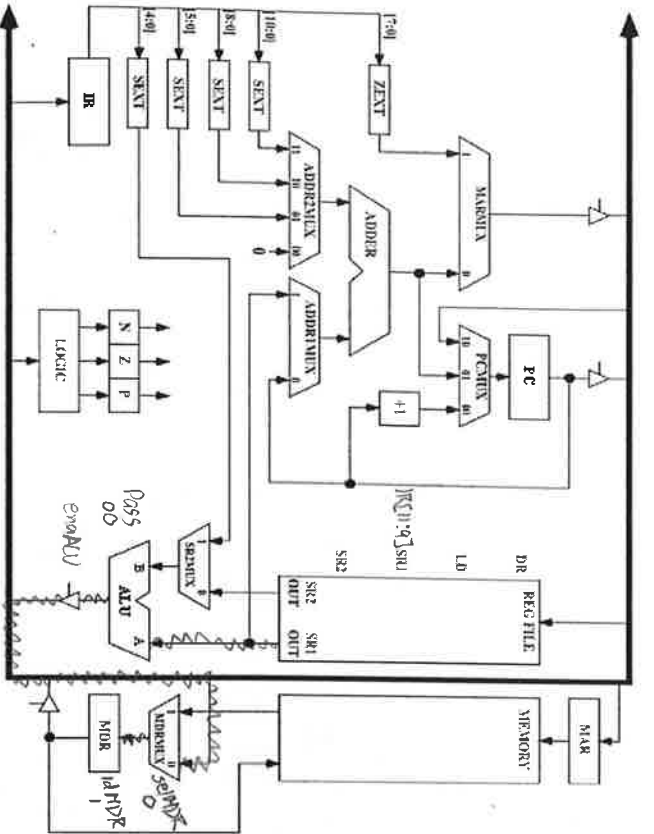
store indirect



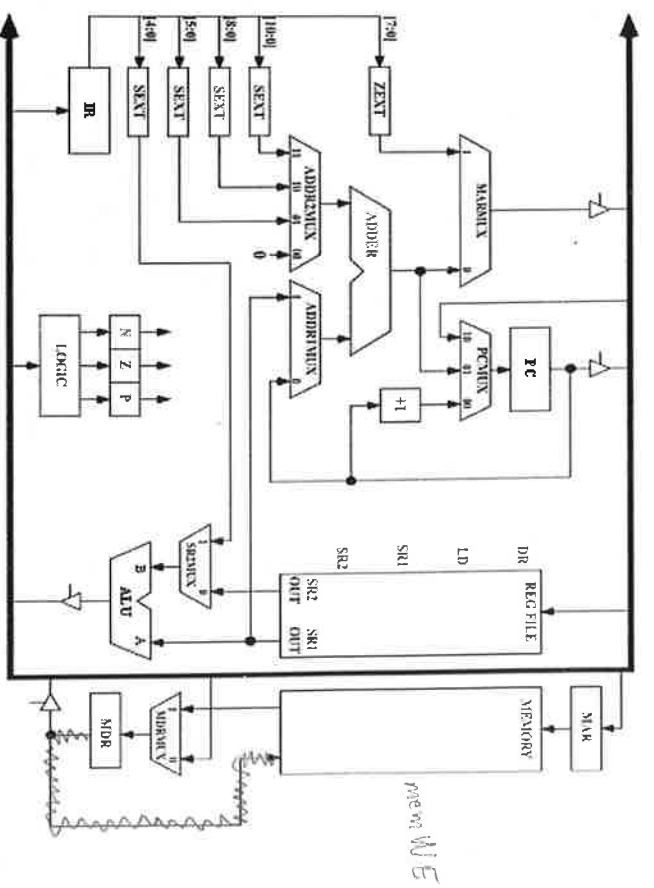
Store Indirect 2



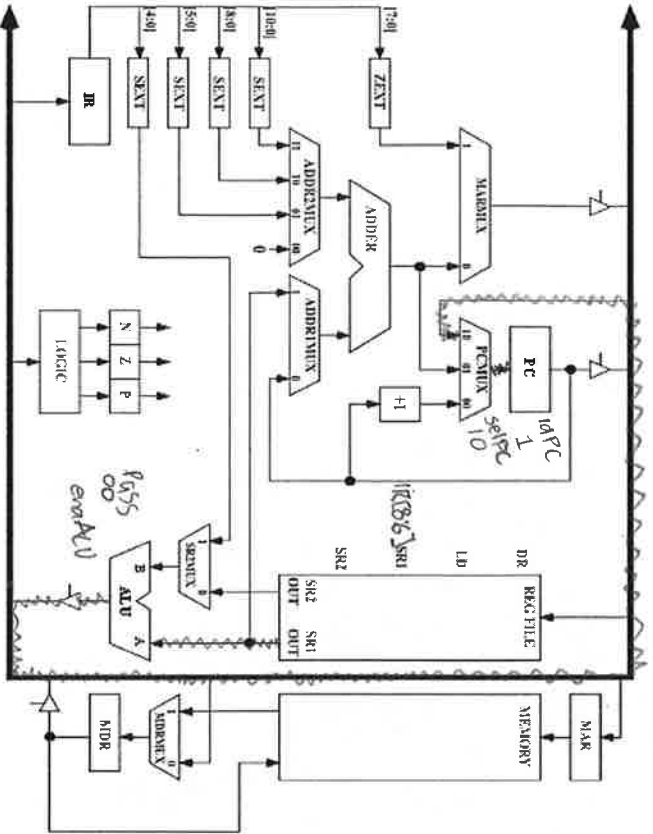
store indirect 3



store indirect 4



Jump



load effective Address

