Control Store

000000 SUB/CMP	F = A-B,Zin,Src-out BA: 01100	00 => ((umar0 + (IR3'.IR4'.IR5')).(sub),umar1+(cmp))
000001 ADD	F= A+B,Zin,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
000010 ADC	F =A+B+Cin,Zin,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
000011 MOV	F = BUS (B) , Zin ,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
000100 SBC	F = A -B-Cin,Zin,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
000101 AND	F= A and B,Zin,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
000110 OR	F = A or B, Zin ,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
000111 Xnor	F = A xnor B, Zin ,Src-out	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001000 INC	F = INC DEST(B) , Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001001 DEC	F = DEC DEST (B) , Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001010 CLR	F = 0, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001011 INV	F = not [DEST(B)] , Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001100 LSR	F = LSR B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001101 ROR	F =ROR B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001110 RRC	F= RRC B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
001111 ASR	F= ASR B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
010000 LSL	F= LSL B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
010001 ROL	F=ROL B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
010010 RLC	F=RLC B, Zin	BA: 011000 => (umar0 + (IR3'.IR4'.IR5'))
010011 BR1	Pcout-bus ,Yin	010100
010100 BR2	IRaddressfld-out ,F=A+B,Zin	010101
010101 BR3	Zout,Pcin-bus	011010
010110 HLT		010110
010111 NOP		011010
011000 SAVE1	MDR-in,Zout,WR	011010

011001 SAVI	≣ 2	Rdst-in,Zout	011010	
011010 Fetc	h	Pcout,Pcout-inc,M ARin,Rd	011011	
011011 Deco	ode	Pcin-inc,MDRout,IRin	Wide branch	
011100				
011101				
011110				
011111				
100000	Rdst-out,Yin	000000 => (2op.(umar0,1,2+	ir12,13,14)+1o	p.(umar0,1,2,3,4 + ir6,7,8,9',9))
100001	Rdst-out, MA	Rin,Rd, F=INC B ,Zin		100101
100010	Rdst-out,F=D	EC B,Zin		100110
100011	Pcout,Pcout-i	nc,MARin,Rd		100111
100100	Rdsout,MAR-	in,Rd		101011
100101	Zout,Rdst-in			101010 => (umar0 + IR5')
100110	Zout,Rdst-in,	MAR-in,Rd		101010 => (umar0 + IR5')
100111	Pcin-inc,MDR	-out,Yin		101000
101000	Rdstout, F=A-	+B,Zin		101001
101001	Zout,MAR-in,	Rd		101010 => (umar0 + IR5')
101010	MDR-out,MA	Rin,Rd		101011
101011 MDR-out,Yin 000000 => (2op.(umar0,1,2+ir12,13,14)+1op.(umar0,1,2,3,4 + ir6,7,8,9',9))				
101100				
101101				
101110				
101111				
110000				
110001				
110010				
110011				

110100	Rsrcout,Src-in	100000 => (umar0,1 + ir3,4 , umar2 +(reg indirect))
110101	Rsrcout,MAR-in,Rd	111111
110110	Rsrcout,MAR-in,Rd, F=INC B,Zin	110111
110111	Zout,Rsrc-in	111110=> (umar0+(IR11'))
111000	Rsrcout,DEC B,Zin	111001
111001	Zout,Rsrcin,MAR-in,Rd	111110=> (umar0+(IR11'))
111010	Pcout,MAR-in,Rd,Pcout-inc	111011
111011	Pcin-inc,MDR-out,Yin	111100
111100	Rsrc-out, F=A+B,Zin	111101
111101	Zout,MAR-in,Rd	111110=> (umar0+(IR11'))
111110	MDR-out,MARin,Rd	111111
111111	MDR-out, Src-in	100000 => (umar0,1 + ir3,4 , umar2 +(reg indirect))