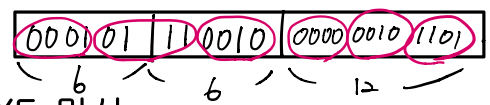


# 시스템프로그래밍 (2020년도) SIC/XE 머신

학번 20180474 출석번호 113 이름 남하리



\*PC는 다음 inst의 주피 n i x b p e  
 $\rightarrow op=14=000101 \times 110010 \text{ disp} = 0030-0003=002D$

n=i=0  $\rightarrow$  SIC  
 i=1  $\rightarrow$  immediate  
 n=1  $\rightarrow$  indirect

PC : 001A  
 CLOOP : 0006  
 $0006-001A = 0006 + FFE6 = FFE6$

why? 12bit 공간 부족.

PC relative 아닌,  
 B relative 일지  
 Base > 722 바이트  
 $0036 - 0033(B) = 0003$

yes!

x b p e 가  
 1100...?

4C + reg

$\rightarrow 0100 \dots 1111 \dots 0000 \dots$   
 $op + ni$

A 0  
 X 1  
 B 2  
 F 3  
 S 4  
 T 5

5		COPY	START	0	
10	0000	FIRST	STL	RETADR	1720 2D
12	0003		LDB	#LENGTH	69202D
13			BASE	LENGTH	
15	0006	CLOOP	+JSUB	RDREC	4B101036
20	000A		LDA	LENGTH	032026
25	000D	4형식	COMP	#0	2900 00
30	0010	주소 전변 문제	JEQ	ENDFIL	332007
35	0013		+JSUB	WRREC	4B10105D
40	0017		J	CLOOP	3F2FEC
45	001A	ENDFIL	LDA	EOF	032010
50	001D		STA	BUFFER	0F2016
55	0020		LDA	#3	010063
60	0023		STA	LENGTH	0F200D
65	0026		+JSUB	WRREC	4B10105D
70	002A		J	@RETADR $\rightarrow n=1, i=0$	3E2003
80	002D	EOF	BYTE	C'EOF 아스키 그대로	454F46
95	0030	RETADR	RESW	1	
100	0033	LENGTH	RESW	1	
105	0036	BUFFER	RESB	4096	
110					
115					
120					
125	1036	RDREC	CLEAR	X	B410
130	1038		CLEAR	A	B400
132	103A		CLEAR	S	B440
133	103C		+LDT	#4096	75101000
135	1040	RLOOP	TD	INPUT	E32019
140	1043		JEQ	RLOOP	332FFA
145	1046		RD	INPUT	0B2013
150	1049	2형식	COMPR	A, S	A004
155	104B		JEQ	EXIT	332008
160	104E		STCH	BUFFER, X	57C003
165	1051		TIXR	T	B850
170	1053		JLT	RLOOP	3B2FEA
175	1056	EXIT	STX	LENGTH Base Reg	134000
180	1059		RSUB		4F0000
185	105C	INPUT	BYTE	X'F1'	F1
195					
200					
205					
210	105D	WRREC	CLEAR	X Base Reg	B410
212	105F		LDT	LENGTH	778 $\rightarrow$ 774000
215	1062	WLOOP	TD	OUTPUT	E32011
220	1065		JEQ	WLOOP	332FFA
225	1068		LDCH	BUFFER, X	53C003
230	106B		WD	OUTPUT	DF2008
235	106E		TIXR	T	B850
240	1070		JLT	WLOOP	3B2FEF
245	1073		RSUB		4F0000
250	1076	OUTPUT	BYTE	X'05'	05
255	1077		END	FIRST	000000

$2^{12} \rightarrow 100000000000$

SUBROUTINE TO READ RECORD INTO BUFFER

$\rightarrow$  2byte, 2bit, 4, 4  
 op, r1, r2

2형식

2

$\rightarrow$  변형

SUBROUTINE TO WRITE RECORD FROM BUFFER

# Object Program

→ 자시어 빠고 끝이!

```

H COPY 000000 001077
T 000000 1D 17202D 69202D 4B101036 032026 290000 332007 4B10105D 3F2FEC 032010
T 00001013 0F2016 010003 0F200D 4B10105D 3E2003 454F46
T 001036 1D B410 B400 B440 75101000 E32019 332FFA DB2013 A004 332008 57C003 B850
T 001053 1D 3B2FEA 134000 4F0000 F1B410 774000 E32011 332FFA 53C003 DF2008 B850
T 001070 01 3B2FEF 4F0000 05
M 000007 05 +JSUB:0006
M 000014 05 +JSUB:0013
M 000027 05 +JSUB:0026
M
E 000000
  
```