

25	RDBUFF	MACRO	&INDEV, &BUFADR, &RECLTH, &EOR, &MAXLTH	
26		IF	(&EOR NE '')	
27	&EORCK	SET	1	
28		ENDIF		
30		CLEAR	X	CLEAR LOOP COUNTER
35		CLEAR	A	
38		IF	(&EORCK EQ 1)	
40		LDCH	=X'&EOR'	SET EOR CHARACTER
42		RMO	A, S	
43		ENDIF		
44		IF	(&MAXLTH EQ '')	
45		+LDT	#4096	SET MAX LENGTH = 4096
46		ELSE		
47		+LDT	#&MAXLTH	SET MAXIMUM RECORD LENGTH
48		ENDIF		
50	\$LOOP	TD	=X'&INDEV'	TEST INPUT DEVICE
55		JEQ	\$LOOP	LOOP UNTIL READY
60		RD	=X'&INDEV'	READ CHARACTER INTO REG A
63		IF	(&EORCK EQ 1)	
65		COMPR	A, S	TEST FOR END OF RECORD
70		JEQ	\$EXIT	EXIT LOOP IF EOR
73		ENDIF		
75		STCH	&BUFADR, X	STORE CHARACTER IN BUFFER
80		TIXR	T	LOOP UNLESS MAXIMUM LENGTH
85		JLT	\$LOOP	HAS BEEN REACHED
90	\$EXIT	STX	&RECLTH	SAVE RECORD LENGTH
95		MEND		

(a)

RDBUFF F3, BUF, RECL, 04, 2048

30		CLEAR	X	CLEAR LOOP COUNTER
35		CLEAR	A	
40		LDCH	=X'04'	SET EOR CHARACTER
42		RMO	A, S	
47		+LDT	#2048	SET MAXIMUM RECORD LENGTH
50	\$AALoop	TD	=X'F3'	TEST INPUT DEVICE
55		JEQ	\$AALoop	LOOP UNTIL READY
60		RD	=X'F3'	READ CHARACTER INTO REG A
65		COMPR	A, S	TEST FOR END OF RECORD
70		JEQ	\$AAEXIT	EXIT LOOP IF EOR
75		STCH	BUF, X	STORE CHARACTER IN BUFFER
80		TIXR	T	LOOP UNLESS MAXIMUM LENGTH
85		JLT	\$AALoop	HAS BEEN REACHED
90	\$AAEXIT	STX	RECL	SAVE RECORD LENGTH

(b)

Figure 4.8 Use of macro-time conditional statements.