

25	RDBUFF	MACRO	&INDEV=F1, &BUFADR=, &RECLTH=, &EOR=04, &MAXLTH=4096	
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		
47		+LDT	#&MAXLTH	SET MAXIMUM RECORD LENGTH
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	BUFADR=BUFFER, RECLTH=LENGTH		
30		CLEAR	X	CLEAR LOOP COUNTER
35		CLEAR	A	
40		LDCH	=X'04'	SET EOR CHARACTER
42		RMO	A, S	
47		+LDT	#4096	SET MAXIMUM RECORD LENGTH
50	\$AALoop	TD	=X'F1'	TEST INPUT DEVICE
55		JEQ	\$AALoop	LOOP UNTIL READY
60		RD	=X'F1'	READ CHARACTER INTO REG A
65		COMPR	A, S	TEST FOR END OF RECORD
70		JEQ	\$AAEXIT	EXIT LOOP IF EOR
75		STCH	BUFFER, X	STORE CHARACTER IN BUFFER
80		TIXR	T	LOOP UNLESS MAXIMUM LENGTH
85		JLT	\$AALoop	HAS BEEN REACHED
90	\$AAEXIT	STX	LENGTH	SAVE RECORD LENGTH

(b)

Figure 4.10 Use of keyword parameters in macro instructions.