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00000	R	740040	A	ASCIN XX
00001	R	120527	E	JMS* .DA
00002	R	600006	R	JMP .+1+3
00003	R	000000	A	MODE 0
00004	R	000000	A	CHAR 0
00005	R	000000	A	FLAG 0
00006	R	220003	R	LAC* MODE
00007	R	740100	A	SMA /TEST MODE
00010	R	600016	R	JMP NOINIT
00011	R	140525	R	DZM BFPTR
00012	R	160005	R	DZM* FLAG
00013	R	777773	A	LAW -5 /INITIALISE READING
00014	R	040522	R	DAC CHCNT
00015	R	620000	R	JMP* ASCIN
00016	R	200525	R	NOINIT LAC BFPTR
00017	R	740200	A	SZA /TEST BUFFER POINTER
00020	R	600041	R	JMP GETCHA
00021	R	002002	A	*G .READ 2,2,BUFF,254 /READ BLOCK
00022	R	000010	A	*G CAL+2*1000 2&777
00023	R	000122	R	*G 10
				*G BUFF
				*G .DEC
00024	R	777402	A	*G -254
				.WAIT 2
00025	R	000002	A	*G CAL 2&777
00026	R	000012	A	*G 12
00027	R	200122	R	LAC BUFF
00030	R	500530	R	AND (17
00031	R	540531	R	SAD (5 / EOF
00032	R	600117	R	JMP SETF
00033	R	200122	R	LAC BUFF / FIND NO OF WORDS
00034	R	640510	A	LRS 10 / IN BLOCK
00035	R	500532	R	AND (776
00036	R	340533	R	TAD (-1
00037	R	040526	R	DAC EOBUFF
00040	R	440525	R	ISZ BFPTR
00041	R	200534	R	GETCHA LAC (BUFF+1
00042	R	340525	R	TAD BFPTR /GET WORD FROM
00043	R	040523	R	DAC FSTWRD /BUFFER
00044	R	200522	R	LAC CHCNT
00045	R	540533	R	SAD (-1
00046	R	600100	R	JMP FIFTH /TEST TO FIND
00047	R	540535	R	SAD (-2 /WHICH CHARACTER
00050	R	600074	R	JMP FOURTH /IS TO BE

PAGE	2	ASCIN	SRC	ASCIN	
46		00051	R 540536	R	SAD (-3 /SEPERATED
47		00052	R 600064	R	JMP THIRD
48		00053	R 540537	R	SAD (-4
49		00054	R 600061	R	JMP SECOND
50		00055	R 220523	R	FIRST LAC* FSTWRD /SEPERATE 1ST
51		00056	R 744000	A	CLL /CHARACTER
52		00057	R 640513	A	LRS 13
53		00060	R 600103	R	JMP STOR
54		00061	R 220523	R	SECOND LAC* FSTWRD /SEPERATE 2ND
55		00062	R 640504	A	LRS 4 /CHARACTER
56		00063	R 600103	R	JMP STOR
57		00064	R 220523	R	THIRD LAC* FSTWRD /STORE 1ST BIT
58		00065	R 040524	R	DAC TEMP /OF 3RD CHARACTER
59		00066	R 440523	R	ISZ FSTWRD /FETCH NEXT WORD
60		00067	R 220523	R	LAC* FSTWRD /LOAD 2ND BIT OF
61		00070	R 652000	A	LMQ /THIRD CHARACTER
62		00071	R 200524	R	LAC TEMP
63		00072	R 640603	A	LLS 3 /JOIN TWO BITS TOGETHER
64		00073	R 600103	R	JMP STOR
65		00074	R 440523	R	FOURTH ISZ FSTWRD /SEPERATE 4TH
66		00075	R 220523	R	LAC* FSTWRD /CHARACTER
67		00076	R 640510	A	LRS 10
68		00077	R 600103	R	JMP STOR
69		00100	R 440523	R	FIFTH ISZ FSTWRD /SEPERATE 5TH
70		00101	R 220523	R	LAC* FSTWRD /CHARACTER
71		00102	R 740020	A	RAR /SHIFT ONE BIT RIGHT
72		00103	R 500540	R	STOR AND (177
73		00104	R 060004	R	DAC* CHAR /STORE CHARACTER
74		00105	R 440522	R	ISZ CHCNT /INCREMENT CHARACTER COUNT
75		00106	R 620000	R	JMP* ASCIN /NOT 5 CHARACTERS YET
76		00107	R 777773	A	LAW -5
77		00110	R 040522	R	DAC CHCNT /RESET CHARACTER COUNT
78		00111	R 200525	R	LAC BFPTR
79		00112	R 723002	A	AAC 2 /INCREMENT BUFFER POINTER
80		00113	R 040525	R	DAC BFPTR
81		00114	R 540526	R	SAD EOBUFF
82		00115	R 140525	R	DZM BFPTR / RESET
83		00116	R 620000	R	JMP* ASCIN
84		00117	R 200541	R	SETF LAC (6 /SET FLAG TO 6
85		00120	R 060005	R	DAC* FLAG
86		00121	R 620000	R	JMP* ASCIN
87					/SYMBOL TABLE
88		00122	R	A	BUFF .BLOCK 400
89		00522	R 000000	A	CHCNT 0
90		00523	R 000000	A	FSTWRD 0
91		00524	R 000000	A	TEMP 0
92		00525	R 000000	A	BFPTR 0
93		00526	R 000000	A	EOBUFF 0
94					.END
		00527	R 000527	E *E	
		00530	R 000017	A *L	
		00531	R 000005	A *L	

00532 R 000776 A \*L  
00533 R 777777 A \*L  
00534 R 000123 R \*L  
00535 R 777776 A \*L  
00536 R 777775 A \*L  
00537 R 777774 A \*L  
00540 R 000177 A \*L  
00541 R 000006 A \*L

SIZE=00542 NO ERROR LINES

## PAGE 4 ASCIN CROSS REFERENCE

ASCIN	00000	1	8	9*	22	75	83	86	
BFPTR	00525	18	23	37	39	78	80	82	92*
BUFF	00122	26	28	32	38	88*			
CHAR	00004	13*	73						
CHCNT	00522	21	41	74	77	89*			
EOBUFF	00526	36	81	93*					
FIFTH	00100	43	69*						
FIRST	00055	50*							
FLAG	00005	14*	19	85					
FOURTH	00074	45	65*						
FSTWRD	00523	40	50	54	57	59	60	65	66
		69	70	90*					
GETCHA	00041	25	38*						
MODE	00003	12*	15						
NOINIT	00016	17	23*						
SECOND	00061	49	54*						
SETF	00117	31	84*						
STOR	00103	53	56	64	68	72*			
TEMP	00524	58	62	91*					
THIRD	00064	47	57*						
.DA	00527	8	10						