

/BINARY EDITOR I PAGE 0 : 119 LOCATIONS (BASE 10)

*0000

/ASCII CONSTANTS

0000 0203 ASCCTC, 203
 0001 0207 ASCBEL, 207
 0002 0212 ASCLF, 212
 0003 0214 ASCFF, 214
 0004 0215 ASCCF, 215
 0005 0240 ASCSPC, 240
 0006 0241 ASCX4K, 241
 0007 0252 ASCAST, 252
 0010 0277 ASCQST, 277
 0011 0317 ASCO, 317
 0012 0324 ASCT, 324
 0013 0337 ASCPKA, 337
 0014 0260 BASE1, 260
 0015 0300 BASE2, 300

/OTHER CONSTANTS

0016 0007 K7, 7
 0017 0011 K11, 11
 0020 0023 K23, 23
 0021 0027 K27, 27
 0022 0033 K33, 33
 0023 0043 K43, 43
 0024 0100 K100, 100
 0025 0102 K102, 102
 0026 0110 K110, 110
 0027 0200 K200, 200
 0030 7612 K7612, 7612
 0031 1354 KSTRGE, STORGE

/MASKS

M7=K7
 0032 0017 M17, 17
 0033 0037 M37, 37
 0034 0077 M77, 77
 M100=K100
 0035 0170 M170, 170
 M200=K200

0036 4000 M4000, 4000
 0037 7770 M7770, 7770

/NEGATIVE OCTAL CONSTANTS

0040 7774 N4, -4
 0041 7772 N6, -6
 N10=M7770

0042 7764 N14, -14

/NEGATIVE DECIMAL CONSTANTS

DECIMAL
 0043 7766 ND10, -10
 0044 7742 ND30, -30
 0045 7704 ND60, -60

OCTAL

/INDIRECT ADDRESSES

0046 0626 GCTRLU, CTRLU
 0047 1145 GDCREC, DECREC
 0050 1107 GEKIT, EXIT
 0051 0205 GGTCR, GETCHR
 0052 1104 GGETSNG, GETSNG
 0053 1205 GINSRT, INSERT
 0054 1047 GLIST, COMML+1
 0055 0424 GPRNT4, PRINT4
 0056 1070 GPRPAR, PREPAR
 0057 0604 GREC4, REC4

0060 1142 GSINGL, SINGLE

0060	1142	START, SINGLE	
		GSTART=K200	
0061	1124	GTEST, TEST	
0062	0771	GWRONG, WRONG	
0063	1241	QILLGL, ILLGL	/ERROR DIAGNOSTICS-INDIRECT ADDRESSES
0064	1245	QXBIN, XBIN	
0065	1251	QFLOW, QVFLOW	
0066	1312	KILLGL, SILLGL	
0067	1322	KXBIN, SXBIN	
0070	1336	KFLOW, SFLOW	
0071	1346	KAVAIL, SAVAIL	
0072	1354	COUNT, STORGE	/BUFFER COUNTER
0073	0000	LTTEST, 0	/COMBINATION LEADER/TRAILER CODE FLAG
		/SUBROUTINES	
0074	0000	ERROR, 0	/PRINT QUESTION MARK
0075	7300	CLA CLL	
0076	1010	TAD ASCQST	
0077	4113	JMS PRINT	
0100	4102	JMS CRLFBL	
0101	5474	JMP I ERROR	
0102	0000	CRLFBL, 0	/PRINT CR-LF-BL COMBINATION IN RESPONSE
0103	7300	CLA CLL	
0104	1004	TAD ASCCR	
0105	4113	JMS PRINT	
0106	1002	TAD ASCLF	
0107	4113	JMS PRINT	
0110	1001	TAD ASCBEL	
0111	4113	JMS PRINT	
0112	5502	JMP I CRLFBL	
0113	0000	PRINT, 0	/PRINT THE ASCII CODE IN THE ACCUMULATOR
0114	6041	TSF	
0115	5114	JMP.-1	
0116	6046	TLS	
0117	7200	CLA	
0120	6031	KSF	/TEST FOR CTRL/C PSEUDO-INTERRUPT FROM
0121	5513	JMP I PRINT	
0122	6036	KRB	
0123	7041	CIA	
0124	1000	TAD ASCCTC	
0125	7650	SNA CLA	
0126	5427	JMP I GSTART	
0127	5513	JMP I PRINT	
0130	0000	RECEIV, 0	/GET A CHARACTER FROM TTY
0131	6031	KSF	
0132	5131	JMP.-1	
0133	6036	KRB	
0134	6046	TLS	
0135	5530	JMP I RECEIV	
0136	0000	HREAD, 0	/READ IN CHARACTER FROM HSR
0137	7300	CLA CLL	
0140	6011	RSF	
0141	5140	JMP.-1	
0142	6016	RCC	
0143	5536	JMP I HREAD	
0144	0000	CHECK, 0	/INCREMENT BUFFER COUNTER WITH OVERFLOW
0145	2072	ISZ COUNT	
0146	5153	JMP.+5	
0147	7040	CMA	
0150	1072	TAD COUNT	
0151	3072	DCA COUNT	
0152	5465	JMP I QFLOW	
0153	1072	TAD COUNT	
0154	7041	CIA	
0155	1030	TAD K7612	
0156	7640	SZA CLA	
0157	5544	JMP I CHECK	
0160	5464	JMP I QXBIN	

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0160 5464 JMP I QXBIN
0161 5474
0162 5427 JMP I JSTART
TEMP1=ERROR /TEMPORARY STORAGE
TEMP2=CRLFBL
TEMP3=PRINT
TEMP4=RECEIV
TEMP5=HREAD
TEMP6=CHECK
0163 0000 TEMP7, 0
0164 0000 TEMP8, 0
0165 0000 TEMP9, 0
0166 0000 TEMP10, 0
PAUSE
/BINARY EDITOR I PAGE 1 : 128 LOCATIONS (BASE 10)
*0200
0200 7300 START, CLA CLL /INITIALIZE
0201 6032 KCC /CLEAR KEYBOARD/READER FLAG
0202 6046 TLS /SET TELEPRINTER/PUNCH FLAG
0203 4102 JMS CRLFBL
0204 4102 JMS CRLFBL
0205 4130 GETCHR, JMS RECEIV /GET A CHARACTER FROM TTY
0206 0033 AND M37 /REMOVE BITS 4 TO 6 OF ASCII CODE
0207 3074 DCA TEMP1 /STORE AWAY
0210 1074 TAD TEMP1
0211 7041 CIA
0212 1021 TAD K27 /IS IT X,Y,Z OR GREATER?
0213 7710 SPA CLA /NO: SKIP TO 'NEXT'
0214 5463 JMP I QILLGL /YES: PRINT ERROR MESSAGE
0215 4130 NEXT, JMS RECEIV /GET NEXT CHARACTER
0216 7041 CIA
0217 1004 TAD ASCCR /IS IT A CARRIAGE RETURN?
0220 7640 SZA CLA
0221 5463 JMP I QILLGL /NO: PRINT ERROR MESSAGE
0222 4102 JMS CRLFBL /YES: ECHO CR-LF-BL
0223 1231 INDEX, TAD COMMND
0224 1074 TAD TEMP1
0225 3074 DCA TEMP1
0226 1474 TAD I TEMP1
0227 3074 DCA TEMP1
0230 5474 JMP I TEMP1 /GO TO RELEVANT SUB-PROGRAM
0231 0231 COMMND, .
0232 1255 AVAIL /A UNAVAILABLE
0233 1000 COMMB /B
0234 0261 COMMC /C
0235 0552 COMMD /D
0236 0320 COMME /E
0237 1241 ILLGL /F ILLEGAL
0240 1255 AVAIL /G UNAVAILABLE
0241 7701 COMMH /H
0242 1200 COMMI /I
0243 1241 ILLGL /J ILLEGAL
0244 7700 COMMK /K
0245 1046 COMML /L
0246 1241 ILLGL /M ILLEGAL
0247 0323 COMMN /N
0250 0740 COMMO /O
0251 0451 COMMP /P
0252 1255 AVAIL /Q UNAVAILABLE
0253 0600 COMMR /R
0254 1255 AVAIL /S UNAVAILABLE
0255 0400 COMMT /T
0256 1241 ILLGL /U ILLEGAL
0257 1241 ILLGL /V ILLEGAL
0260 0414 COMMW /W
/C.....COMBINATION LEADER/TRAILER
0261 7604 COMMC, LAS
0262 0036 AND M4000 /TEST S/R BIT 0
0263 7650 SNA CLA /IS IT SET TO 1?

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0264	5261	JMP.-3	/NO: TEST AGAIN
0265	1073	TAD LTTEST	/YES: START PUNCHING
0266	7640	SZA CLA	/WHICH CODE FIRST?
0267	5275	JMP.+6	
0270	4301	JMS CODEA	/BLANK LEADER/TRAILER
0271	4310	JMS CODEB	/CODE-200 LEADER/TRAILER
0272	7001	IAC	
0273	3073	DCA LTTEST	/SET CODE FLAG
0274	5205	JMP GETCHR	
0275	4310	JMS CODEB	/CODE-200 LEADER/TRAILER
0276	4301	JMS CODEA	/BLANK LEADER/TRAILER
0277	3073	DCA LTTEST	/CLEAR CODE FLAG
0300	5205	JMP GETCHR	
0301	0000	CODEA, 0	/PRINT 60 BLANK CHARACTERS
0302	1045	TAD ND60	
0303	3074	DCA TEMP1	
0304	4113	JMS PRINT	
0305	2074	ISZ TEMP1	
0306	5304	JMP.-2	
0307	5701	JMP I CODEA	
0310	0000	CODEB, 0	/PRINT 30 CODE-200 CHARACTERS
0311	1044	TAD ND30	
0312	3074	DCA TEMP1	
0313	1027	TAD K200	
0314	4113	JMS PRINT	
0315	2074	ISZ TEMP1	
0316	5313	JMP.-3	
0317	5710	JMP I CODEB	
		/E.....ERASE ENTIRE TEXT	
0320	1031	COMME, TAD KSTRGE	/RESET BUFFER COUNTER
0321	3072	DCA COUNT	
0322	5200	JMP START	
		/N.....HIGH-SPEED NUMERIC READ-IN	
0323	6016	COMMN, RCC	/GET FIRST CHARACTER FROM HSR
0324	7410	SKP	
0325	4136	JMS HREAD	/GET ANOTHER CHARACTER FROM HSR
0326	7450	SNA	/IS IT BLANK TAPE?
0327	5325	JMP.-2	/YES: GET ANOTHER CHARACTER
0330	4136	JMS HREAD	/NO: IGNORE CR-CR-LF-BELL COMBINATION
0331	4136	JMS HREAD	
0332	4136	JMS HREAD	
0333	4136	READ, JMS HREAD	/GET CHARACTER FROM HSR
0334	3074	DCA TEMP1	/STORE AWAY
0335	3472	DCA I COUNT	/CLEAR OUT CURRENT STORE
0336	1074	TAD TEMP1	
0337	7041	CIA	
0340	1007	TAD ASCAST	/IS CHARACTER AN ASTERISK?
0341	7640	SZA CLA	
0342	5347	JMP.+5	
0343	7040	CMA	
0344	3472	DCA I COUNT	
0345	4144	JMS CHECK	/HAS BUFFER OVERFLOWED?
0346	5333	JMP READ	/GET ANOTHER CHARACTER
0347	1040	TAD N4	
0350	3102	DCA TEMP2	/SET COUNTER FOR 4 DIGITS
0351	1074	TAD TEMP1	
0352	7041	CIA	
0353	1001	TAD ASCREL	
0354	7640	SZA CLA	/IS CHARACTER A BELL?
0355	5360	JMP.+3	/NO: CONTINUE READ-IN
0356	7000	NOP	/HLT FOR LSR
0357	5200	JMP START	/YES: TERMINATE READ-IN
0360	1074	TAD TEMP1	
0361	0016	STRIP, AND 47	/STORE NEXT DIGIT
0362	3074	DCA TEMP1	
0363	1472	TAD I COUNT	
0364	7004	RAL	
0365	7006	RTL	

0367	3472	DCA TEMP1	
0370	2102	ISZ TEMP2	
0371	5375	JMP.+4	
0372	4136	JMS HREAD	/IGNORE CR-LF COMBINATION
0373	4136	JMS HREAD	
0374	5345	JMP READ+12	
0375	4136	JMS HREAD	/GET NEXT CHARACTER FROM HSR
0376	3074	DCA TEMP1	
0377	5351	JMP STRIP-10	
/H.....HIGH-SPEED PATCH READ-IN USING 'BIN'			
COMMH=7701			
/K.....KILL THE EDITOR,ENABLE NEW PROGRAM TO BE LOADED WITH			
COMMK=7700			
PAUSE			
/BINARY EDITOR.I PAGE 2 : 128 LOCATIONS (BASE 10)			
*0400			
/T.....SWITCH REGISTER OPTION LEADER/TRAILER			
0400	7604	COMMT, LAS	/WAIT FOR S/R BIT 0 TO BE SET TO 1
0401	0036	AND M4000	
0402	7450	SNA	
0403	5200	JMP.-3	
0404	7604	LAS	
0405	0027	AND M200	/CHECK BIT 4 FOR CODE
0406	4113	JMS PRINT	
0407	7604	LAS	
0410	0036	AND M4000	
0411	7440	SZA	
0412	5204	JMP.-6	
0413	5451	JMP I GETCHR	
/W.....WRITE ENTIRE TEXT			
0414	1031	COMMW, TAD KSTRGE	/SET LOWER LIMIT FOR LISTING IN COMMW
0415	3166	DCA TEMP10	
0416	7040	CMA	
0417	1072	TAD COUNT	/SET UPPER LIMIT FOR LISTING IN COMMW
0420	3165	DCA TEMP9	
0421	1054	TAD GLIST	/SET RETURN POINTER FOR 'PREPAR'
0422	3456	DCA I GPRPAR	
0423	5461	JMP I GTEST	
0424	0000	PRINT4, 0	/PRINT A FOUR-FIGURE NUMBER
0425	3130	DCA TEMP4	
0426	1040	TAD N4	/SET COUNTER FOR FOUR DIGITS
0427	3136	DCA TEMP5	
0430	1102	TAD TEMP2	
0431	7004	RAL	
0432	1130	DIGIT, TAD TEMP4	
0433	7004	RAL	
0434	7006	RTL	
0435	3130	DCA TEMP4	
0436	1130	TAD TEMP4	
0437	0016	AND M7	/SINGLE OUT DIGIT
0440	1014	TAD BASE1	/ADD ASCII NUMBER BASE
0441	4113	JMS PRINT	/PRINT IT
0442	2136	ISZ TEMP5	/INCREMENT COUNTER
0443	5232	JMP DIGIT	/GET ANOTHER DIGIT
0444	1004	TAD ASCCR	
0445	4113	JMS PRINT	
0446	1002	TAD ASCLF	
0447	4113	JMS PRINT	
0450	5624	JMP I PRINT4	
/P.....PUNCH BINARY TAPE OF TEXT			
0451	3074	COMP, DCA TEMP1	
0452	1031	TAD KSTRGE	
0453	3102	DCA TEMP2	
0454	1072	TAD COUNT	
0455	7041	CIA	
0456	1031	TAD KSTRGE	
0457	7650	SNA CLA	/IS THERE ANY TEXT?
0460	5427	JMP I GSTART	/NO: RETURN TO CONTROL PROGRAM
0461	7604	LAS	

0462	0036	AND M4000	
0463	7650	SNA CLA	/IS IT SET TO 1?
0464	5261	JMP.-3	/NO: TEST AGAIN
0465	1027	TAD K200	/YES: START PUNCHING
0466	4113	JMS PRINT	/PUNCH ONE CODE-200 IN CASE USER FORG
0467	1025	TAD K102	
0470	4342	JMS CHSUM	/PUNCH '*200' CODE IN CASE USER LEFT
0471	4113	JMS PRINT	/STARTING LOCATION
0472	7604	LAS	/TEST S/R BIT 5
0473	0024	AND M100	
0474	7450	SNA	/IS IT SET TO 1?
0475	5302	JMP.+5	/NO: DO NOT PUNCH FIELD SETTING
0476	7604	LAS	/YES: FIND REQUIRED FIELD SETTING FRO
0477	0035	AND M170	/BITS 6-8 OF S/R
0500	1027	TAD K200	
0501	4113	JMS PRINT	/PUNCH FIELD SETTING
0502	3130	DCA TEMP4	/CLEAR OUT TEMP4
0503	1502	PUNCH, TAD I TEMP2	
0504	7040	CMA	
0505	7440	SZA	/DOES LOCATION CONTAIN ASTERISK CODE?
0506	5312	JMP.+4	/NO: CONTINUE
0507	1024	TAD K100	/YES: PUT 100 IN TEMP4
0510	3130	DCA TEMP4	
0511	5323	JMP.+12	
0512	7040	CMA	
0513	7002	BSW	
0514	0034	AND M77	/SEPARATE FIRST HALF OF LOCATION
0515	1130	TAD TEMP4	/ADD IN TEMP4
0516	4342	JMS CHSUM	/PUNCH FIRST HALF OF LOCATION
0517	1502	TAD I TEMP2	
0520	0034	AND M77	/SEPARATE SECOND HALF OF LOCATION
0521	4342	JMS CHSUM	/PUNCH SECOND HALF OF LOCATION
0522	3130	DCA TEMP4	
0523	2102	ISZ TEMP2	
0524	7000	NOP	
0525	1102	TAD TEMP2	
0526	7041	CIA	
0527	1072	TAD COUNT	
0530	7640	SZA CLA	
0531	5303	JMP PUNCH	
0532	1074	TAD TEMP1	
0533	7002	BSW	
0534	0034	AND M77	
0535	4113	JMS PRINT	/PUNCH FIRST HALF OF CHECKSUM
0536	1074	TAD TEMP1	
0537	0034	AND M77	
0540	4113	JMS PRINT	/PUNCH SECOND HALF OF CHECKSUM
0541	5451	JMP I GGTCHR	
0542	0000	CHSUM, 0	/ADD UP CHECKSUM
0543	3136	DCA TEMP5	
0544	1136	TAD TEMP5	
0545	1074	TAD TEMP1	
0546	3074	DCA TEMP1	
0547	1136	TAD TEMP5	
0550	4113	JMS PRINT	
0551	5742	JMP I CHSUM	
0552	4456	/D.....DELETE SINGLE LINES OR GROUPS OF LINES	
0553	1072	COMM, JMS I GPRPAR	/GET LIMITS FOR DELETION
0554	3074	TAD COUNT	
0555	2165	DCA TEMP1	
0556	7000	ISZ TEMP9	
0557	1165	NOP	
0560	7041	TAD TEMP9	
0561	1166	CIA	
0562	1072	TAD TEMP10	
0563	3072	TAD COUNT	
0564	1565	DCA COUNT	
0564	1565	SHIFT, TAD I TEMP9	/SHIFT LINES ABOVE UPPER LIMIT TO

0564	3565	DCA I TEMP10	/LOWER LIMIT
0566	1165	TAD TEMP9	
0567	7041	CIA	
0570	1074	TAD TEMP1	
0571	7650	SNA CLA	
0572	5427	JMP I GSTART	
0573	2165	ISZ TEMP9	
0574	7000	NOP	
0575	2166	ISZ TEMP10	
0576	7000	NOP	
0577	5364	JMP SHIFT	
PAUSE			
/BINARY EDITOR-I PAGE 3 : 123 LOCATIONS (BASE 10)			
*0600			
/R.....RECEIVE TEXT FROM TTY			
0600	4204	COMMR, JMS REC4	/GET TEXT
0601	3472	DCA I COUNT	/DEPOSIT TEXT
0602	4144	JMS CHECK	/HAS BUFFER OVERFLOWED?
0603	5200	JMP.-3	
0604	0000	REC4, 0	/GET FOUR-FIGURE NUMBER, TEST FOR ASTE
0605	1046	TAD GCTRLU	/SET POINTERS FOR CONTROL/U,
0606	3136	DCA TEMP5	
0607	1027	TAD GSTART	/FORM-FEED,
0610	3144	DCA TEMP6	
0611	1057	TAD GREC4	/AND ERROR RESPONSE
0612	3164	DCA TEMP8	
0613	4130	JMS RECEIV	/GET A CHARACTER FROM TTY
0614	3074	DCA TEMP1	/STORE AWAY
0615	1074	TAD TEMP1	
0616	7041	CIA	
0617	1007	TAD ASCAST	
0620	7640	SZA CLA	/IS IT AN ASTERISK?
0621	5224	JMP.+3	/NO: CONTINUE
0622	7040	CMA	/YES: SET ACCUMULATOR TO ASTERISK CO
0623	5604	JMP I REC4	
0624	4231	JMS TEXT	/GET A FOUR-FIGURE NUMBER
0625	5604	JMP I REC4	
0626	1006	CTRLU, TAD ASCXMK	/CONTROL/U RESPONSE, PRINT EXCLAMATION
0627	4113	JMS PRINT	
0630	5213	JMP REC4+7	
0631	0000	TEXT, 0	/GET FOUR-FIGURE NUMBER
0632	3163	DCA TEMP7	/CLEAR OUT STORE
0633	1040	TAD N4	/SET COUNTER FOR FOUR DIGITS
0634	3102	DCA TEMP2	
0635	1074	TAD TEMP1	
0636	7041	CIA	
0637	1003	TAD ASCFF	/CHECK FOR WHAT CHARACTER IT IS
0640	7450	SNA	/IS IT A FORM-FEED?
0641	5544	JMP I TEMP6	/YES: JUMP TO ADDRESS IN CONTROL/U PE
0642	1017	TAD K11	/NO: CONTINUE
0643	7450	SNA	/IS IT A CONTROL/U?
0644	5536	JMP I TEMP5	/YES: JUMP TO ADDRESS IN CONTROL/U PE
0645	1022	TAD K33	/NO: CONTINUE
0646	7540	SMA SZA	/IS IT A DIGIT, OR OTHER CODE >260?
0647	5336	JMP ILLEG	/NO: MUST BE ILLEGAL
0650	1016	TAD K7	/YES: CONTINUE
0651	7500	SMA	/IS IT >267?
0652	5276	JMP STORE	/NO: MUST BE A DIGIT
0653	1026	TAD K110	/YES: CONTINUE
0654	7440	SZA	/IS IT A RUBOUT?
0655	5336	JMP ILLEG	/NO: MUST BE ILLEGAL
0656	1102	TAD TEMP2	/YES: CONTINUE WITH ERASURE
0657	7041	CIA	
0660	1040	TAD N4	
0661	7450	SNA	/IS THERE ANYTHING TO ERASE?
0662	5333	JMP RETURN+3	/NO: GET ANOTHER CHARACTER
			/YES: SET COUNTER TO ONE LESS

0663	7240	CLA 614	
0664	1102	TAD TEMP2	
0665	3102	DCA TEMP2	
0666	1013	TAD ASCBKA	/ECHO BACK-ARROW
0667	4113	JMS PRINT	
0670	1163	TAD TEMP7	
0671	0037	AND M7770	/KNOCK OFF LAST INPUT DIGIT
0672	7010	RAR	
0673	7012	RTR	
0674	3163	DCA TEMP7	
0675	5333	JMP RETURN+3	
0676	7300	STORE, CLA CLL	
0677	1163	TAD TEMP7	/ADD IN RUNNING TOTAL
0700	7004	RAL	
0701	7006	RTL	
0702	3163	DCA TEMP7	
0703	1074	TAD TEMP1	
0704	0016	AND M7	
0705	1163	TAD TEMP7	
0706	3163	DCA TEMP7	
0707	2102	TEXEND, ISZ TEMP2	/INCREMENT COUNTER
0710	5333	JMP RETURN+3	
0711	4130	JMS RECEIV	/IF ZERO, GET ANOTHER CHARACTER
0712	3074	DCA TEMP1	
0713	1074	TAD TEMP1	
0714	7041	CIA	
0715	1004	TAD ASCCR	
0716	7450	SNA	/IS IT A CARRIAGE RETURN?
0717	5330	JMP RETURN	/FINISH GETTING NUMBER
0720	1023	TAD K43	/NO: CONTINUE
0721	7540	SMA SZA	/IS IT A DIGIT?
0722	5326	JMP.+4	
0723	1016	TAD K7	
0724	7500	SMA	
0725	5336	JMP ILLEG	/YES: MUST BE ILLEGAL
0726	7300	CLA CLL	
0727	5235	JMP TEXT+4	/TEST FOR OTHER CODES
0730	4102	RETURN, JMS CRLFBL	
0731	1163	TAD TEMP7	
0732	5631	JMP I TEXT	
0733	4130	JMS RECEIV	/GET ANOTHER CHARACTER
0734	3074	DCA TEMP1	
0735	5235	JMP TEXT+4	/TEST FOR CODES ETC.
0736	4074	ILLEG, JMS ERROR	/ILLEGAL CODE
0737	5564	JMP I TEMP8	/JUMP TO ADDRESS IN ILLEGAL CODE POIN
		/O.....OVERWRITE SINGLE LINES OR GROUPS OF LINES	
0740	4456	COMMO, JMS I GPRPAR	/GET LIMITS OF OVERWRITING
0741	1046	TAD GCTRLU	/SET POINTERS
0742	3136	DCA TEMP5	
0743	1062	TAD GWRONG	
0744	3144	DCA TEMP6	
0745	1062	TAD GWRONG	
0746	3164	DCA TEMP8	
0747	4130	REC4A, JMS RECEIV	/GET CHARACTER FROM TTY
0750	3074	DCA TEMP1	/STORE AWAY
0751	1074	TAD TEMP1	
0752	7041	CIA	
0753	1007	TAD ASCAST	
0754	7640	SZA CLA	/IS IT AN ASTERISK?
0755	5360	JMP.+3	/NO: TEST FOR OTHER CODES
0756	7040	CMA	/YES: SET ASTERISK CODE
0757	5361	JMP.+2	
0760	4231	JMS TEXT	/GET A FOUR-FIGURE NUMBER
0761	3566	DCA I TEMP10	/DEPOSIT CODE OVER EXISTING TEXT
0762	1166	TAD TEMP10	
0763	7041	CIA	
0764	1165	TAD TEMP9	

0765	7650	SNA CLA	/HAVE ENOUGH LINES BEEN OVERWRITTEN?
0766	5427	JMP I GSTART	/YES: RETURN TO CONTROL PROGRAM
0767	2166	ISZ TEMP10	/NO: INCREMENT OVERWRITE COUNTER
0770	5347	JMP REC4A	/GET ANOTHER FOUR-FIGURE NUMBER
0771	4074	WRONG, JMS ERROR	/ILLEGAL CODE
0772	5347	JMP REC4A	
PAUSE			
/BINARY EDITOR I PAGE 4 : 126 LOCATIONS (BASE 10)			
*1000			
/B.....HIGH-SPEED BINARY TAPE READ-IN			
1000	6016	COMMB, RCC	/GET FIRST CHARACTER
1001	7410	SKP	
1002	4136	JMS HREAD	/GET NEXT CHARACTER
1003	3074	DCA TEMP1	/STORE AWAY
1004	1074	TAD TEMP1	
1005	0027	AND M200	
1006	7440	SZA	/IS IT L.T. OR A FIELD SETTING?
1007	5202	JMP.-5	/YES: GET ANOTHER CHARACTER
1010	4222	JMS HTEST	/NO: TEST CHARACTER FOR ORIGIN OR NOT
1011	7002	BSW	
1012	3472	DCA I COUNT	/DEPOSIT FIRST HALF OF LOCATION
1013	4136	JMS HREAD	
1014	1472	TAD I COUNT	
1015	3472	DCA I COUNT	/DEPOSIT SECOND HALF OF LOCATION
1016	4144	JMS CHECK	
1017	4136	JMS HREAD	
1020	3074	DCA TEMP1	
1021	5210	JMP COMMB+10	
1022	0000	HTEST, 0	/TEST INPUT BINARY CHARACTER
1023	1074	TAD TEMP1	
1024	0027	AND M200	
1025	7450	SNA	/IS IT L.T.?
1026	5234	JMP.+6	/NO: CONTINUE
1027	7240	CLA CMA	/YES: DESTROY LAST INPUT NUMBER (THE)
1030	1072	TAD COUNT	
1031	3072	DCA COUNT	
1032	7000	NOP	/HLT FOR LSR
1033	5427	JMP I GSTART	/RETURN TO CONTROL PROGRAM
1034	1074	TAD TEMP1	
1035	0024	AND M100	
1036	7650	SNA CLA	/IS INPUT CHARACTER AN ORIGIN?
1037	5243	JMP.+4	/NO: CONTINUE
1040	7040	CMA	/YES: STORE ASTERISK CODE AND RESUME
1041	3472	DCA I COUNT	
1042	4144	JMS CHECK	
1043	1074	TAD TEMP1	
1044	0034	AND M77	/STRIP OFF ORIGIN CODE IF ANY
1045	5622	JMP I HTEST	
/L.....LIST SINGLE LINES OR GROUPS OF LINES			
1046	4270	COMML, JMS PREPAR	/GET LIMITS OF LISTING
1047	1566	TAD I TEMP10	
1050	7040	CMA	
1051	7440	SZA	/DOES STORE CONTAIN ASTERISK CODE (77
1052	5256	JMP WRITE1	/NO: CONTINUE
1053	1007	PAD ASCAST	/YES: PRINT ASTERISK
1054	4113	JMS PRINT	
1055	5261	JMP ENDL	/GET CONTENTS OF NEXT STORE
1056	7040	WRITE1, CMA	
1057	3102	DCA TEMP2	
1060	4455	JMS I 3PRNT4	/PRINT THE FOUR-FIGURE NUMBER IN CORE
1061	1166	ENDL, TAD TEMP10	
1062	7041	CIA	
1063	1165	TAD TEMP9	
1064	7650	SNA CLA	/HAVE ENOUGH LINES BEEN LISTED?
1065	5427	JMP I GSTART	/YES: RETURN TO CONTROL PROGRAM
1066	2166	ISZ TEMP10	/NO: INCREMENT LISTING COUNTER
1067	5247	JMP COMML+1	
1070	0000	PREPAR, 0	/GET LIMITS FOR OVERWRITING LISTING

1072	3074		DCA TEMP1	
1073	4345		JMS DECRC	/GET LOWER LIMIT AS DECIMAL LINE NUMB
1074	1165		TAD TEMP0	
1075	3166		DCA TEMP10	/STORE AWAY
1076	1012		TAD ASCT	/PRINT "TO " IN RESPONSE TO SPACE
1077	4113		JMS PRINT	
1100	1011		TAD ASCO	
1101	4113		JMS PRINT	
1102	1005		TAD ASCSPC	
1103	4113		JMS PRINT	
1104	1050	GETSN3,	TAD GEXIT	/SET NEW POINTER FOR CR RESPONSE
1105	3074		DCA TEMP1	
1106	4345		JMS DECRC	/GET UPPER LIMIT AS DECIMAL LINE NUMB
1107	4102	EXIT,	JMS CRFLBL	/PRINT CR-LF-BL
1110	7140		CMA CLL	/CONVERT LIMITS TO STORE NUMBERS
1111	1031		TAD KSTRGE	
1112	1165		TAD TEMP9	
1113	7420		SNL	/HAS INTEGER OVERFLOW OCCURRED?
1114	5161		JMP GERROR	/YES: PRINT ERROR MESSAGE
1115	3165		DCA TEMP9	/NO: CONTINUE
1116	7140		CMA CLL	
1117	1031		TAD KSTRGE	
1120	1166		TAD TEMP10	
1121	7420		SNL	/HAS INTEGER OVERFLOW OCCURRED?
1122	5161		JMP GERROR	/YES: PRINT ERROR MESSAGE
1123	3166		DCA TEMP10	/NO: CONTINUE
1124	1166	TEST,	TAD TEMP10	/TEST LINK FOR TEMP10>TEMP9
1125	7141		CIA CLL	
1126	1165		TAD TEMP9	
1127	7460		SNL SZA	/IS TEMP10>TEMP9?
1130	5161		JMP GERROR	/YES: ILLEGAL, SO PRINT ERROR MESSAGE
1131	7300		CLA CLL	/NO: TEST LINK FOR TEMP9>COUNT
1132	1165		TAD TEMP9	
1133	7041		CIA	
1134	1072		TAD COUNT	
1135	7420		SNL	/IS TEMP9>COUNT?
1136	5161		JMP GERROR	/YES: ILLEGAL, SO PRINT ERROR MESSAGE
1137	7640		SZA CLA	/NO: IS TEMP9=COUNT?
1140	5670		JMP I PREPAR	/NO: CONTINUE
1141	5161		JMP GERROR	/YES: ILLEGAL, SO PRINT ERROR MESSAGE
1142	1165	SINGLE,	TAD TEMP9	/CR TYPED AFTER FIRST LINE
1143	3166		DCA TEMP10	/SET UPPER LIMIT EQUAL TO LOWER LIMIT
1144	5307		JMP EXIT	/RETURN TO TEST ROUTINE ABOVE
1145	0000	DECRC, 0		/RECEIVE A DECIMAL NUMBER FROM TTY
1146	4130		JMS RECEIV	/GET A CHARACTER
1147	0032		AND M17	/STRIP OFF ASCII CODE
1150	3165		DCA TEMP9	/STORE AWAY
1151	4130		JMS RECEIV	/GET ANOTHER
1152	3102		DCA TEMP2	
1153	1102		TAD TEMP2	
1154	7141		CIA CLL	
1155	1004		TAD ASCCR	
1156	7450		SNA	/IS NEXT CHARACTER A CR?
1157	5474		JMP I TEMP1	/YES: JUMP TO ADDRESS IN CR POINTER
1160	1020		TAD K23	/NO: IS IT A SPACE?
1161	7650		SNA CLA	/NO: CONTINUE
1162	5745		JMP I DECRC	/YES: FINISH RECEIVING NUMBER
1163	1043	DECIML,	TAD ND10	/MULTIPLY RUNNING TOTAL BY TEN AND...
1164	3113		DCA TEMP3	
1165	1102		TAD TEMP2	/...ADD IN NEW DIGIT
1166	0032		AND M17	
1167	1165		TAD TEMP9	
1170	7430		SNL	/HAS INTEGER OVERFLOW OCCURRED?
1171	5161		JMP GERROR	/YES: PRINT ERROR MESSAGE
1172	2113		IS1 TEMP3	/NO: CONTINUE WITH MULTIPLICATION
1173	5367		JMP -4	
1174	3165		DCA TEMP9	

PAUSE

/BINARY EDITOR I PAGE 5 : 109 LOCATIONS (BASE 10)

*1200

/I.....INSERT ANY NUMBER OF LINES BEFORE A GIVEN LINE

1200	1053	COMMI,	TAD GINSRT	/SET POINTERS IN 'PREPAR'
1201	3456		DCA I GPRPAR	
1202	7001		IAC	
1203	3166		DCA TEMP10	
1204	5452		JMP I GGTSNG	/GO TO PART OF 'PREPAR' TO GET LINE
1205	1072	INSERT,	TAD COUNT	
1206	3166		DCA TEMP10	
1207	4457		JMS I GREC4	/GET NUMBER TO BE INSERTED
1210	3113		DCA TEMP3	/CIF FORM-FEED TYPED WHILST IN 'REC4'
1211	1565		TAD I TEMP9	/MOVE ALL LINES UP ONE, STARTING FROM
1212	3130		DCA TEMP4	/SPECIFIED BY USER
1213	1165		TAD TEMP9	
1214	7001		IAC	
1215	3074		DCA TEMP1	
1216	4144		JMS CHECK	/TEST FOR BUFFER OVERFLOW
1217	1474		TAD I TEMP1	
1220	3102		DCA TEMP2	
1221	1130		TAD TEMP4	
1222	3474		DCA I TEMP1	
1223	1074		TAD TEMP1	
1224	7041		CIA	
1225	1166		TAD TEMP10	
1226	7650		SNA CLA	/HAVE ENOUGH LINES BEEN MOVED?
1227	5234		JMP.+5	/YES: CONTINUE
1230	2074		ISZ TEMP1	/NO: MOVE ANOTHER
1231	1102		TAD TEMP2	
1232	3130		DCA TEMP4	
1233	5217		JMP INSERT+12	
1234	1113		TAD TEMP3	/PUT IN LINE TO BE INSERTED
1235	3565		DCA I TEMP9	
1236	2165		ISZ TEMP9	
1237	7000		NOP	
1240	5205		JMP INSERT	/GET ANOTHER LINE TO BE INSERTED
1241	1037	ILLGL,	TAD N10	/ILLEGAL COMMAND' ERROR DIAGNOSTIC
1242	3074		DCA TEMP1	
1243	1066		TAD KILLGL	
1244	5260		JMP DIAGNO	
1245	1042	KBIN,	TAD N14	/BIN OVERWRITE IMMINENT' ERROR DIAGNO
1246	3074		DCA TEMP1	
1247	1067		TAD KKBIN	
1250	5260		JMP DIAGNO	
1251	1037	OVFLOW,	TAD N10	/BUFFER OVERFLOW' ERROR DIAGNOSTIC
1252	3074		DCA TEMP1	
1253	1070		TAD KFLOW	
1254	5260		JMP DIAGNO	
1255	1041	AVAIL,	TAD N6	/UNAVAILABLE' ERROR DIAGNOSTIC
1256	3074		DCA TEMP1	
1257	1071		TAD KAVAIL	
1260	3130	DIAGNO,	DCA TEMP4	/PRINT DIAGNOSTIC
1261	4102		JMS CRLFBL	
1262	1530		TAD I TEMP4	
1263	7002		BSW	/GET FIRST CODE FROM STRIPPED-FORMATE
1264	4273		JMS PRINTQ	
1265	1530		TAD I TEMP4	/GET SECOND CODE
1266	4273		JMS PRINTQ	
1267	2130		ISZ TEMP4	
1270	2074		ISZ TEMP1	
1271	5262		JMP DIAGNO+2	
1272	5427		JMP I GSTART	
1273	0000	PRINTQ,	0	/CONVERT 6-BIT ASCII TO 8-BIT & PRINT
1274	0034		AND M77	/TEST CODE
1275	7440		SZA	/IS IT A SPACE CODE (00)?
1276	5301		JMP.+3	/NO: CONTINUE

1277	1005	TAD ASCSPC	/YES: PRINT A SPACE
1300	5310	JMP.+10	
1301	7040	CMA	
1302	7440	SZA	/IS IT A CR-LF-BL CODE (77)?
1303	5306	JMP.+3	/NO: CONTINUE
1304	4102	JMS CRLFBL	/YES: PRINT CR-LF-BL
1305	5311	JMP.+4	
1306	7040	CMA	
1307	1015	TAD BASE2	/ADD IN ASCII ALPHANUMERIC BASE (300)
1310	4113	JMS PRINT	/PRINT CHARACTER
1311	5673	JMP I PRINTQ	
1312	1114	SILLGL, 1114	/IL
1313	1405	1405	/LE
1314	0701	0701	/GA
1315	1400	1400	/L
1316	0317	0317	/CO
1317	1515	1515	/MM
1320	0116	0116	/AN
1321	0477	0477	/D
1322	0211	SXBIN, 0211	/BI
1323	1600	1600	/N
1324	1726	1726	/OV
1325	0522	0522	/ER
1326	2722	2722	/WR
1327	1124	1124	/IT
1330	0500	0500	/E
1331	1115	1115	/IM
1332	1511	1511	/MI
1333	1605	1605	/NE
1334	1624	1624	/NT
1335	0077	0077	/
1336	0225	SFLOW, 0225	/BU
1337	0606	0606	/FF
1340	0522	0522	/ER
1341	0017	0017	/O
1342	2605	2605	/VE
1343	2206	2206	/RF
1344	1417	1417	/LO
1345	2777	2777	/W
1346	2516	SAVAIL, 2516	/UN
1347	0126	0126	/AV
1350	0111	0111	/AI
1351	1401	1401	/LA
1352	0214	0214	/BL
1353	0577	0577	/E
1354	0000	STORGE, 0	
		PAUSE	
		/BINARY EDITOR I PAGE 6 (SELF-STARTING ROUTINE) : 110 LOCATIONS	
		/(BASE 10)	
		*STORGE	
1354	5755	JMP I .+1	
1355	1600	BINTST	
		*1600	
1600	7450	BINTST, SNA	/HAS BIN LOADED TAPE PROPERLY?
1601	5213	JMP SELFGO	/YES: CONTINUE WITH SELF-STARTING ROUTINE
1602	3102	DCA TEMP2	/NO: STORE ACCUMULATOR FOR USE BY OPERATOR
1603	6046	TLS	
1604	1745	TAD I GBRASC	
1605	4113	JMS PRINT	/PRINT ACC<>0 ERROR MESSAGE
1606	2345	ISZ GBRASC	
1607	2353	ISZ ERRMRK	
1610	5204	JMP.-4	
1611	4455	JMS I GPRNT4	/PRINT ACCUMULATOR VALUE STORED ABOVE
1612	7402	HLT	
1613	1346	SELFGO, TAD KHLT	
1614	3734	DCA I GBIN	/RESET BIN LOCATION
1615	1735	TAD I GRIM	
1616	7041	CIA	

1617	1352	TAD HSR	/HAS HSR VERSION OF DIM BEEN USED?
1620	7650	SNA CLA	/YES: PRINT IDENTIFICATION LABEL
1621	5242	JMP IDENT	/NO: SET LSR POINTERS
1622	1347	TAD KKSF	
1623	3140	DCA HREAD+2	
1624	1350	TAD KKRB	
1625	3142	DCA HREAD+4	
1626	1351	TAD KNOP	
1627	3736	DCA I GRCC1	
1630	1351	TAD KNOP	
1631	3737	DCA I GRCC2	
1632	1351	TAD KNOP	
1633	3740	DCA I GSKP1	
1634	1351	TAD KNOP	
1635	3741	DCA I GSKP2	
1636	1346	TAD KHLT	
1637	3742	DCA I GNOP1	
1640	1346	TAD KHLT	
1641	3743	DCA I GNOP2	
1642	6046	IDENT, TLS	
1643	1744	TAD I GASCII	/PRINT IDENTIFICATION LABEL
1644	4113	JMS PRINT	
1645	2344	ISZ GASCII	
1646	2354	ISZ MARKER	
1647	5243	JMP.-4	
1650	5427	JMP I GSTART	
1651	0215	ASCII, 215	/(CARRIAGE RETURN)
1652	0212	212	/(LINE FEED)
1653	0312	312	/JONATHAN
1654	0315	315	/MARK
1655	0320	320	/PINNOCK
1656	0323	323	/SOFTWARE
1657	0304	304	/DEVELOPMENT
1660	0257	257	/(SLASH)
1661	0302	302	/B
1662	0311	311	/I
1663	0316	316	/N
1664	0301	301	/A
1665	0322	322	/R
1666	0331	331	/Y
1667	0240	240	/(SPACE)
1670	0305	305	/E
1671	0304	304	/D
1672	0311	311	/I
1673	0324	324	/T
1674	0317	317	/O
1675	0322	322	/R
1676	0240	240	/(SPACE)
1677	0311	311	/I
1700	0257	257	/(SLASH)
1701	0260	260	/0
1702	0261	261	/1
1703	0260	260	/0
1704	0261	261	/1
1705	0301	301	/A
1706	0215	ERRASC, 215	/(CARRIAGE RETURN)
1707	0212	212	/(LINE FEED)
1710	0303	303	/C
1711	0310	310	/H
1712	0305	305	/E
1713	0303	303	/C
1714	0313	313	/K
1715	0323	323	/S
1716	0325	325	/U
1717	0315	315	/M
1720	0240	240	/(SPACE)
1721	0305	305	/E
1722	0322	322	/R

1723	0322		322	/R
1724	0317		317	/O
1725	0322		322	/R
1726	0215		215	/(CARRIAGE RETURN)
1727	0212		212	/(LINE FEED)
1730	0301		301	/A
1731	0303		303	/C
1732	0303		303	/C
1733	0275		275	/=
1734	7700	GBIN,	BIN	
1735	7756	GRIM,	RIM	
1736	0323	GRCC1,	COMMN	
1737	1000	GRCC2,	COMMB	
1740	1001	GSKP1,	COMMB+1	
1741	0324	GSKP2,	COMMN+1	
1742	0356	GNOP1,	STRIP-3	
1743	1032	GNOP2,	HTEST+10	
1744	1651	GASCII,	ASCII	
1745	1706	GRBASC,	ERRASC	
1746	7402	KHLT,	HLT	
1747	6031	KKSF,	KSF	
1750	6036	KKRB,	KRB	
1751	7000	KNOP,	NOP	
1752	6014	HSR,	RFC	
		DECIMAL		
1753	7752	ERRMRK,	-22	
1754	7743	MARKER,	-29	
		OCTAL		
		RIM=7756		
		BIN=7700		
		*BIN		
7700	5472		JMP I COUNT	
		PAUSE		
		/BINARY EDITOR I 'DOLLAR'		

ASCAST 0007
 ASCBEL 0001
 ASCBKA 0013
 ASCCB 0004
 ASCCTC 0000
 ASCFF 0003
 ASCII 1651
 ASCLF 0002
 ASCO 0011
 ASCQST 0010
 ASCSPC 0005
 ASCT 0012
 ASCXMK 0006
 AVAIL 1255
 BASE1 0014
 BASE2 0015
 BIN 7700
 BINTST 1600
 CHECK 0144
 CHSUM 0542
 CODEA 0301
 CODEB 0310
 COMMB 1000
 COMMC 0261
 COMMD 0552
 COMME 0320
 COMMH 7701
 COMMI 1200
 COMMK 7700
 COMML 1046
 COMMN 0323
 COMMND 0231
 COMMO 0740

COMM	0500
COMMT	0400
COMMW	0414
COUNT	0072
CRLFBL	0102
CTRLU	0626
DECIML	1163
DECREC	1145
DIAGNO	1260
DIGIT	0432
ENDL	1061
ERRASC	1706
ERRMRK	1753
ERROR	0074
EXIT	1107
GASCII	1744
GRIN	1734
GCTRLU	0046
GDCREC	0047
GERROR	0161
GETCHR	0205
GETSNG	1104
GEXIT	0050
GETCHR	0051
GETSNG	0052
GINSRT	0053
GLIST	0054
GNOP1	1742
GNOP2	1743
GPRNT4	0055
GPRPAR	0056
GRCC1	1736
GRCC2	1737
GREC4	0057
GRIM	1735
GRRASC	1745
GSINGL	0060
GSKP1	1740
GSKP2	1741
GSTART	0027
GTEST	0061
GWRONG	0062
HREAD	0136
HSR	1752
HTEST	1022
IDENT	1642
ILLEG	0736
ILLGL	1241
INDEX	0223
INSERT	1205
KAVAIL	0071
KFLOW	0070
KHLT	1746
KILLGL	0066
KIRB	1750
KKSF	1747
KNOP	1751
KSTRGE	0031
KXBIN	0067
K100	0024
K102	0025
K11	0017
K110	0026
K200	0027
K23	0020
K27	0021
K33	0022

R43	0023
K7	0016
K7612	0030
LTTEST	0073
MARKER	1754
M100	0024
M17	0032
M170	0035
M200	0027
M37	0033
M4000	0036
M7	0016
M77	0034
M7770	0037
ND10	0043
ND30	0044
ND60	0045
NEKT	0215
N10	0037
N14	0042
N4	0040
N6	0041
OVFLOW	1251
PREPAR	1070
PRINT	0113
PRINTQ	1273
PRINT4	0424
PUNCH	0503
QFLOW	0065
QILLGL	0063
QXBIN	0064
READ	0333
RECEIV	0130
REC4	0604
REC4A	0747
RETURN	0730
RIM	0756
SAVAIL	1346
SELF30	1613
SFLOW	1336
SHIFT	0564
SILLGL	1312
SINGLE	1142
START	0200
STORE	0676
STORE	1354
STRIP	0361
SXBIN	1322
TEMP1	0074
TEMP10	0166
TEMP2	0102
TEMP3	0113
TEMP4	0130
TEMP5	0136
TEMP6	0144
TEMP7	0163
TEMP8	0164
TEMP9	0165
TEST	1124
TEXTEND	0707
TEXT	0631
WRITE1	1056
XPCN3	0771
XBIN	1245