

THE FOLLOWING CONVENTIONS ARE USED IN THIS LISTING=  
\*\* IN THE ADDRESS, TAG, OR DECREMENT OF AN INSTRUCTION  
INDICATES THAT THIS FIELD WILL BE MODIFIED BY THE PROGRAM.  
\* IN COL/36 INDICATES THE INSTRUCTION IS A TRANSFER OUT OF  
THIS LOGICAL BLOCK OR SUBROUTINE.  
C IN COL/34 INDICATES THE INSTRUCTION WAS CORRECTED.  
P IN COL/32 INDICATES THE INSTRUCTION WAS INSERTED (PATCH).  
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				CONTROL CARD FOR DBC.		DBC/C01
		00000		ORG 0		DBC/C02
00000	0	00000	0	PZE TAB+1		DBC/C03
00001	0	00000	0	PZE COMMON		DBC/C04
00002	742422233460			BCD 1(DBC)		DBC/C05
00003	0	00000	0	PZE (DBC)		DBC/C06
				END OF DBC CONTROL CARD.		DBC/C07
				* * * * *		DBC/C08
		00000		ORG 0		DBC/C09
				(DBC)/ CALLS=LINE,READ. CALLER=MAIN PROGRAM.		DBC/001
				(DBC) CONTROLS DECIMAL TO BINARY CONVERSION AND INPUT.		DBC/002
00000	0	02100	0	00001 (DBC) TTR NEW	INSTRUCTION EXECUTED IN LOCATION 1.	DBC/004
				NEW = ENTRY POINT FROM MAIN PROGRAM (C(AC)= ADDRESS OF INPUT	ROUTINE TO HANDLE CURRENT INPUT, AND C(0)= LOCATION OF THE	DBC/005
				CURRENT FORMAT STATEMENT).		DBC/006
00001	-0	76000	0	00007 NEW	LTM SET RBCD TO CALL THE INDICATED	DBC/008
00002	0	62100	0	00304	STA TYPE TYPE OF INPUT ROUTINE.	DBC/009
00003	-0	50000	0	00000	CAL 0 SET INPUT FORMAT STATEMENT	DBC/010
00004	0	62100	0	00007	STA CALL LOCATION.	DBC/011
00005	0	40000	0	00626	ADD ONE SET EXIT	DBC/012
00006	0	62100	0	00015	STA FX4 TO MAIN PROGRAM.	DBC/013
00007	-0	50000	0	00000 CALL	CAL ** OBTAIN FORMAT STATEMENT	DBC/014
00010	-0	63400	4	00015	SXD FX4,4 FOR SCAN.	DBC/015
00011	0	07400	4	00036	TSX LINE,4 * GO SCAN FORMAT.	DBC/016
00012	-0	53400	4	00015	LXD FX4,4 WHEN DONE, RESTORE C(XR4).	DBC/017
00013	-0	50000	0	00016	CAL TRAP SET LOCATION 1 FOR FUTURE	DBC/018
00014	0	60200	0	00001	SLW 1 TRAP TRANSFER TO SEEK, AND	DBC/019
00015	1	00000	0	00000 FX4	TXI **,0,** * TRANSFER CONTROL TO MAIN PROGRAM.	DBC/020
				THE MAIN PROGRAM CONTROLS ALL INDEXING OF THE LIST.		DBC/021
00016	0	02100	0	00017 TRAP	TTR INSTRUCTION EXECUTED IN LOCATION 1.	DBC/022
				SEEK	SEEK = REENTRY POINT FROM MAIN PROGRAM (C(0)= LOCATION OF	DBC/023
				THE ADDRESS OF THE NEXT INPUT NUMBERS).		DBC/024
00017	-0	76000	0	00007 SEEK	LTM PICKUP NTR INSTRUCTION, AND	DBC/025
00020	-0	50000	0	00000	CAL 0 SET LOCATION	DBC/026
00021	0	62100	0	00024	STA SETL OF INPUT NUMBERS.	DBC/027
00022	0	40000	0	00626	ADD ONE SET LOCATION FOR	DBC/028
00023	0	62100	0	00035	STA OUT RETURN TO MAIN PROGRAM.	DBC/029
00024	0	50000	0	00000 SETL	CLA ** PICKUP LOCATION OF INPUT	DBC/030
00025	0	60100	0	00033 STO	STO PUT AND SET ADDRESS AND TAG OF PUT.	DBC/031
00026	0	56000	0	00025	LDQ STO SET PUT OP	DBC/032
00027	-0	62000	0	00033	SLQ PUT TO STO.	DBC/033

00030	-0	63400	4	00015	SXD	FX4,4	SAVE THE C(XR4), AND	DBC/034
00031	0	07400	4	00316	TSX	READ,4	* GO READ AND CONVERT INPUT.	DBC/035
00032	-0	53400	4	00015	LXD	FX4,4	RESTORE THE C(XR4).	DBC/036
00033	0	60100	0	00000	STO	**,**	STORE INPUT NUMBER.	DBC/037
00034	0	76000	0	00007	ETM		REPEAT UNTIL LIST IS EXHAUSTED,	DBC/038
00035	0	02100	0	00000	TTR	**	* UNDER CONTROL OF THE MAIN PROGRAM.	DBC/039
							END OF PROGRAM (DBC).	DBC/040
							*****	DBC/041
							LINE,4/ CALLS=RBCD,FIELD. USES=READ. CALLER=(DBC).	DBC/042
							LINE SCANS THE FORMAT STATEMENT FOR EACH LINE OF INPUT.	DBC/043
00036	-0	63400	4	00116	LINE	SXD	AX4,4	DBC/044
00037	-0	63400	1	00114		SXD	AX1,1	DBC/045
00040	-0	63400	2	00115		SXD	AX2,2	DBC/046
00041	0	76000	0	00006	COM		SAVE THE ORIGINAL C(XR1), AND	DBC/047
00042	0	62200	0	00066	STD	UNIT	SAVE THE ORIGINAL C(XR2).	DBC/048
00043	0	60000	0	77737	STZ	PEX	COMPLEMENT THE C(AC), AND SET	DBC/049
00044	0	60000	0	77731	STZ	INT	UNIT DECREMENT=-(CURRENT UNIT).	DBC/050
00045	0	62100	0	00102	STA	SCAN5	SET PEX (SCALE FACTOR) = 0, AND	DBC/051
00046	0	07400	2	00303	TSX	RBCD,2	SET INT = 0.	DBC/052
00047	0	53400	2	00102	LXA	SCAN5,2	SAVE THE C(AC) ADDRESS, AND	DBC/053
00050	-0	53400	1	00067	LXD	SEVEN,1	* GO READ INPUT UNIT RECORD. THEN	DBC/054
00051	0	56000	2	77777	LDQ	-1,2	SET XR2=-(CURRENT FORMAT LOC.),AND	DBC/055
							SET XR1 = 7, AND PICKUP THE	DBC/056
							1ST WORD OF CURRENT FORMAT.	DBC/057
							CCLPAR = ENTRY POINT WHEN A LPAREN IS MET IN FORMAT SCAN.	DBC/058
00052	-0	63400	1	00120	CCLPAR	SXD	BX1,1	DBC/059
00053	-0	63400	2	00121		SXD	BX2,2	DBC/060
00054	-0	60000	0	77735	STQ	MQR	SAVE THE CURRENT CHARACTER COUNT,	DBC/061
00055	0	53400	4	77731	LXA	INT,4	SCAN POSITION, AND FORMAT WORD,	DBC/062
00056	-0	63400	4	00122	SXD	BX4,4	FOR POSSIBLE REPETITION OF GROUP.	DBC/063
00057	-0	63400	4	00265	SXD	GROUPX,4	SET GROUP CONTROL COUNT FOR THE	DBC/064
							INDICATED NUMBER OF REPETITIONS,	DBC/065
							AND SAVE FOR POSSIBLE RESCAN.	DBC/066
							SCAN = ENTRY POINT FOR CCMMA,CCSCFP,CCINPT,RESCAN.	DBC/067
00060	0	60000	0	77731	SCAN	STZ	CLEAR INT WORKING STORAGE, AND	DBC/068
00061	1	00006	0	00102	SIX	TXI	GO RESUME SCAN.	DBC/069
00062	-0	53400	1	00061	SCAN1	LXD	RESET FORMAT CHARACTER COUNT, AND	DBC/070
00063	0	56000	2	77777		LDQ	PICKUP NEXT FORMAT WORD.	DBC/071
00064	-0	76300	0	00006	SCAN2	LGL	EXAMINE NEXT CHARACTER,	DBC/072
00065	0	34000	0	00631		CAS	AND IF BLANK,	DBC/073
00066	1	00000	0	00070	UNIT	TXI	THEN	DBC/074
00067	1	00007	0	00102	SEVEN	TXI	GO EXAMINE NEXT CHARACTER.	DBC/075
00070	0	34000	0	00630	SCAN3	CAS	IF NOT BLANK, COMPARE WITH NINE,	DBC/076
00071	1	00000	0	00105		TXI	IF NON-NUMERIC, COMPARE CTEST.	DBC/077
00072	0	76100	0	00000		NOP	IF NUMERIC, THEN	DBC/078
00073	0	60100	0	77732		STO	CONVERT	DBC/079
00074	0	50000	0	77731		CLA	SUCCESSIVE	DBC/080
00075	0	76700	0	00002		ALS	BCD	DBC/081
00076	0	40000	0	77731		ADD	DIGITS	DBC/082
00077	0	76700	0	00001		ALS	TO SET INT= SCALE FACTOR,	DBC/083
00100	0	36100	0	77732		ACL	TO SET INT= SCALE FACTOR,	DBC/084
							SCAN4 = ENTRY POINT USED BY CCSCFM.	DBC/085
00101	0	60100	0	77731	SCAN4	STO	CURRENT FIELD OR GROUP CONTROL.	DBC/086
							SCAN5 = ENTRY POINT USED BY CCDcpt.	DBC/087
00102	-0	75400	0	00000	SCAN5	PXD	CLEAR THE AC, AND UPDATE COUNT.	DBC/088
00103	2	00001	1	00064		TIX	WHEN NO CHARACTERS REMAIN,	DBC/089
00104	1	77777	2	00062		TXI	ADJUST SCAN POSITION, AND REPEAT.	DBC/090

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SCAN6 = ENTRY POINT USED BY CCDCPT.
00105 -0 53400 4 00107 SCAN6 LXDNCC,4 WHEN A NON-NUMERIC IS MET, DBC/088
00106 0 34000 4 00626 SCAN7 CAS CCTEST,4 SCAN LIST OF CONTROL CHARACTERS, DBC/089
00107 1 00014 0 00111 NCC TXISCAN8,0,12 AND IF EQUALITY IS FOUND, DBC/090
00110 0 02000 4 00127 TRA FRMTR,4 * TAKE THE INDICATED TRANSFER. DBC/092
00111 2 00001 4 00106 SCAN8 TIXSCAN7,4,1 IF NOT FOUND IN CONTROL LIST, THEN DBC/093
00112 0 42000 1 00005 HPR 5,1 STOP. PRESS START TO CONTINUE. DBC/0935

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END OF PROGRAM LINE. DBC/097

\*\*\*\*\* DBC/098

\*\*\*\*\* DBC/099

FRMTR / CONTROL TRANSFERS FOR FORMAT SCAN = DBC/100

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D 00113 1 00000 0 00127 TXICCEDMK,0 END OF FORMAT STATEMENT. DBC/1005
00114 1 00000 0 00052 AX1 TXICCLPAR,0,** BEGIN FORMAT OR GROUP. DBC/101
00115 1 00000 0 00132 AX2 TXICCCMMA,0,** END FIELD. DBC/102
00116 1 00000 0 00137 AX4 TXICCSLSH,0,** END LINE OR RECORD. DBC/103
D 00117 1 00000 0 00142 TXICCSCFP,0 SCALE FACTOR PLUS. DBC/104
00120 1 00000 0 00145 BX1 TXICCSCFM,0,** SCALE FACTOR MINUS. DBC/105
00121 1 00000 0 00147 BX2 TXICCRPAR,0,** END FORMAT OR GROUP. DBC/106
00122 1 00000 0 00153 BX4 TXICCDCPT,0,** ROUNDING OF INPUT NUMBER. DBC/107
D 00123 1 00000 0 00172 TXICCINPT,0 DECIMAL INPUT. DBC/108
00124 1 00000 0 00177 CX1 TXICCHNPT,0,** HOLLERITH FIELD INPUT. DBC/109
00125 1 00000 0 00250 CX2 TXICCFNPT,0,** FIXED POINT INPUT. DBC/110
00126 1 00000 0 00254 CX4 TXICCNENPT,0,** FLOATING POINT INPUT. DBC/111
00127 FRMTR BSS 0 DBC/112

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\*\*\*\*\* DBC/113

\*\*\*\*\* DBC/114

CCEDMK/ CALLS=FIELD. USES=MAIN PROGRAM. DBC/1141

CCEDMK = ENTRY POINT WHEN AN ENDMK IS MET IN FORMAT SCAN. DBC/1142

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00127 0 07400 4 00266 CCEDMK TSX FIELD,4 * GO PROCESS UNDER FIELD CONTROL. DBC/1143
00130 -0 50000 0 00273 CAL TXLOP THEN GO SET CNVSW TO RESCAN FORMAT DBC/1144
D 00131 1 00000 0 00275 TXI SETSW,0 * IF LIST IS NOT EXHAUSTED. DBC/1145
END OF PROGRAM CCEDMK. DBC/1146

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\*\*\*\*\* DBC/1147

\*\*\*\*\* DBC/1148

CCCMMA/ CALLS=FIELD. USES=LINE(SCAN). DBC/115

CCCMMA = ENTRY POINT WHEN A COMMA IS MET IN FORMAT SCAN. DBC/116

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00132 0 07400 4 00266 CCCMMA TSX FIELD,4 * GO PROCESS UNDER FIELD CONTROL. DBC/117
RESUME = ENTRY POINT USED BY CCSLSH,CCRPAR,CCHNPT. DBC/118
00133 -0 53400 1 00124 RESUME LXDCX1,1 WHEN DONE, RESTORE CHARACTER COUNT, DBC/119
00134 -0 53400 2 00125 LXDCX2,2 RESTORE SCAN POSITION, AND DBC/120
00135 0 56000 0 77734 LDQ MQ CURRENT FORMAT WORD. THEN DBC/121
D 00136 1 00000 0 00060 TXISCAN,0 * GO RESUME SCAN. DBC/122

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END OF PROGRAM CCCMMA. DBC/123

\*\*\*\*\* DBC/124

\*\*\*\*\* DBC/125

CCSLSH/ CALLS=FIELD,RBCD. USES=CCCMMA. DBC/126

CCSLSH = ENTRY POINT WHEN A SLASH IS MET IN FORMAT SCAN. DBC/127

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00137 0 07400 4 00266 CCSLSH TSX FIELD,4 * GO PROCESS UNDER FIELD CONTROL. DBC/128
00140 0 07400 2 00303 TSX RBCD,2 * WHEN DONE, READ A RECORD, AND DBC/129
D 00141 1 00000 0 00133 TXI RESUME,0 * GO RESUME SCAN. DBC/130
END OF PROGRAM CCSLSH. DBC/131

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\*\*\*\*\* DBC/132

\*\*\*\*\* DBC/133

CCSCFP/ USES=LINE(SCAN). DBC/134

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00142 0 50000 0 77731 CCSCFP CLA CCSCFP = ENTRY POINT WHEN A P IS MET IN FORMAT SCAN. DBC/135
00143 0 60100 0 77737 STO INT PICKUP AND DBC/136
D 00144 1 00000 0 00060 TXI PEX STORE SCALE FACTOR. DBC/137
TXI SCAN,0 * GO RESUME SCAN. DBC/138
END OF PROGRAM CCSCFP. DBC/139
***** DBC/140
CCSCFM/ USES=LINE(SCAN). DBC/141
CCSCFM = ENTRY POINT WHEN A MINUS SIGN IS MET IN FORMAT SCAN. DBC/142
D 00145 0 50200 0 77731 CCSCFM CLS INT SET INT MINUS, AND DBC/144
00146 1 00000 0 00101 TXI SCAN,0 * GO GET SCALE FACTOR. DBC/145
END OF PROGRAM CCSCFM. DBC/146
***** DBC/147
CCRPAR/ CALLS=FIELD. USES=CCMMA,RESCAN(GROUP). DBC/149
CCRPAR = ENTRY POINT WHEN A RPAREN IS MET IN FORMAT SCAN. DBC/150
D 00147 0 07400 4 00266 CCRPAR TSX FIELD,4 * GO PROCESS UNDER FIELD CONTROL. DBC/151
00150 -0 53400 4 00122 LXD BX,4 WHEN DONE, UPDATE GROUP COUNT, AND DBC/152
00151 -2 00001 4 00133 TNX RESUME,4,1 * GO RESUME SCAN, UNLESS DBC/153
D 00152 1 00000 0 00261 TXI GROUP,0 * REPETITION OF GROUP IS INDICATED. DBC/154
END OF PROGRAM CCRPAR. DBC/155
***** DBC/156
CCDCPT/ USES=LINE(SCAN). DBC/158
CCDCPT = ENTRY POINT WHEN A POINT IS MET IN FORMAT SCAN. DBC/159
D 00153 0 50000 0 00171 CCDCPT CLA DTR MODIFY SCAN INSTRUCTION DBC/160
00154 0 60100 0 00070 STO SCAN3 TO TRANSFER INTO DCPT1. DBC/161
00155 0 60000 0 77732 STZ DIG CLEAR DIG, AND DBC/161
D 00156 1 00000 0 00102 TXI SCAN5,0 * GO RESUME SCAN. DBC/162
DCPT1 = REENTRY POINT FROM LINE(SCAN). DBC/163
D 00157 0 34000 0 00630 DCPT1 CAS L(9) DETERMINE THE DBC/164
00160 1 00000 0 00164 TXI DCPT3,0 NUMBER, MODULO TEN, DBC/165
00161 0 76100 0 00000 NOP OF DIGITS DBC/166
D 00162 0 60100 0 77732 STO DIG IN FRACTION. DBC/167
00163 1 00000 0 00102 TXI SCAN5,0 * WHEN A CONTROL CHARACTER IS MET, DBC/168
00164 -0 60000 0 77734 DCPT3 STQ MQ RESTORE THE DBC/169
00165 0 56000 0 00157 LDQ DCPT1 SCAN INSTRUCTION DBC/170
00166 -0 60000 0 00070 STQ SCAN3 TO ITS ORIGINAL FORM, AND DBC/171
D 00167 0 56000 0 77734 LDQ MQ GO COMPARE CHARACTER DBC/172
D 00170 1 00000 0 00105 TXI SCAN6,0 * WITH CCTEST LIST. DBC/173
END OF PROGRAM CCDCPT. DBC/174
D 00171 1 00000 0 00157 DTR TXI DCPT1,0 * INSTRUCTION CONSTANT. DBC/175
***** DBC/176
CCINPT/ USES=LINE(SCAN). DBC/178
CCINPT = ENTRY POINT WHEN AN I IS MET IN FORMAT SCAN. DBC/179
00172 -0 50000 0 00273 CCINPT CAL TXLOP PICKUP TXLOP, AND DBC/180
SETFX = ENTRY POINT USED BY CCFNPT. DBC/181
D 00173 0 63000 0 00524 SETFX STP FIXSW FIXED POINT SWITCH. DBC/182
00174 0 53400 4 77731 LXA INT,4 SET COUNT FOR THE DBC/183
00175 -0 63400 4 00604 SXD COUNT,4 REPETITION OF THIS FIELD, AND DBC/184
D 00176 1 00000 0 00060 TXI SCAN,0 * GO RESUME SCAN. DBC/185
END OF PROGRAM CCINPT. DBC/186
***** DBC/187

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                END OF PROGRAM CCFNPT.
                * * * * *
                CCFNPT/ USES=CCFNPT.
                CCFNPT = ENTRY POINT WHEN AN E IS MET IN FORMAT SCAN.
00254 -0 75400 0 00000 CCFNPT PXD ,0 CLEAR THE AC, AND
D 00255 1 00000 0 00251 TXI SETXP,0 * GG SET EXPONENT AND FIXSW.
                END OF PROGRAM CCFNPT.
                * * * * *
                RESCAN/ CALLS=RBCD. USES=LINE(SCAN).
                RESCAN = ENTRY POINT USED BY READ.
00256 -0 63400 4 00116 RESCAN SXD AX4,4 FOR RETURN FROM FORMAT SCAN.
00257 0 07400 2 00303 TSX RBCD,2 * GO READ A RECORD.
00260 -0 53400 4 00265 LXD GROUPX,4 THEN PICKUP ORIGINAL GROUP COUNT TO
                GROUP = ENTRY POINT USED BY CCRPAR.
00261 -0 63400 4 00122 GROUP SXD BX4,4 UPDATE GROUP CONTROL.
00262 -0 53400 1 00120 LXD BX1,1 RESET CHARACTER COUNT,
00263 -0 53400 2 00121 LXD BX2,2 RESET SCAN POSITION, AND
00264 0 56000 0 77735 LDQ MQR PICKUP 1ST FORMAT WORD OF GROUP.
00265 1 00000 0 00060 GROUPX TXI SCAN,0,** * GO RESCAN THIS GROUP.
                END OF PROGRAM RESCAN.
                * * * * *
                FIELD,4/ USES READ. CALLERS=LINE(SCAN),CCMMA,CCSLSH,CCRPAR.
                FIELD CONTROLS THE REPEATED INPUT OF THE CURRENT FIELD.
00266 -0 63400 4 00126 FIELD SXD CX4,4 SAVE THE C(XR4) FOR RETURN.
00267 -0 63400 1 00124 SXD CX1,1 SAVE THE CHARACTER COUNT,
00270 -0 63400 2 00125 SXD CX2,2 THE SCAN POSITION, AND
00271 -0 60000 0 77734 STQ MQ THE CURRENT FORMAT WORD.
00272 0 53400 4 77731 LXA INT,4 EXAMINE INT, AND
00273 -3 00000 4 00300 TXLOP TXL DONE,4,0 IF NOT ZERO, THEN
00274 0 50000 0 00273 CLA TXLOP PICKUP TXHOP TO
                SETSW = ENTRY POINT USED BY LINE(SCAN8).
00275 0 63000 0 00321 SETSW STP CNVSW SET CONVERSION SWITCH.
00276 0 50000 0 77733 CLA DATUM THEN PICKUP DATUM,
D 00277 1 00000 0 00606 TXI LIST,0 * GO STORE, AND EXAMINE LIST.
                DONE = ENTRY POINT USED BY READ.
00300 -0 53400 4 00126 DONE LXD CX4,4 WHEN DONE, RESTORE THE C(XR4), AND
00301 0 02000 4 00001 TRA 1,4 * RETURN TO CALLER.
                END OF PROGRAM FIELD.
                * * * * *
                RBCD,2/ CALLS=(CSH),(TSH). CALLERS=LINE,CCSLSH,RESCAN.
                RBCD READS CURRENT INPUT RECORD INTO BCD BUFFER.
00302 0 42000 1 00000 EOF HPR 0,1 EOF HALT / PRESS START TO REPEAT.
00303 -0 53400 1 00066 RBCD LXD UNIT,1 SET XR1 FOR CURRENT UNIT, AND
00304 0 07400 4 00000 TYPE TSX **,4 * GO TO INDICATED INPUT ROUTINE.
00305 0 77777 0 77751 PZE BCD,-1 (INPUT BUFFER)
                DCR1 = END-OF-FILE RETURN FROM INPUT ROUTINE.
00306 1 00001 0 00302 DCR1 TXI EOF,0,1 GO TO END-OF-FILE STOP.
                DCR1+1 = NORMAL RETURN FROM INPUT ROUTINE.
00307 -0 50000 0 00306 CAL DCR1 FOR CURRENT INPUT, RESET
00310 0 62200 0 00347 STD DX1 INPUT CHARACTER COUNT AND
    
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00311	0	62200	0	00350	STD DX2	INPUT WORD COUNT TO ONE. THEN	DBC/298
00312	0	02000	2	00001	TRA 1,2	* EXIT TO CALLER.	DBC/299
					END OF PROGRAM RBCD.		DBC/300
					*****		DBC/301
					READ,4/ USES=FIELD,LINE. CALLERS=(DBC),LINE(RESCAN).		DBC/302
					READ DOES INTEGER, FIXED, AND FLOATING POINT CONVERSION.		DBC/303
					XREAD = EXIT FROM READ WHEN FORMAT IS EXHAUSTED.		DBC/304
					SAVE THE C(XR4), AND		DBC/305
00313	-0	63400	4	00321	XREAD SXD CNVSW,4	* GO RESCAN FORMAT. THEN RETURN,	DBC/306
00314	0	07400	4	00256	TSX RESCAN,4	AFTER GETTING FORMAT.	DBC/3061
00315	-0	53400	4	00321	LXD CNVSW,4		DBC/3062
					READ = ENTRY POINT USED BY (DBC).		DBC/307
					SAVE THE C(XR4) FOR RETURN TO LIST.		DBC/308
00316	-0	63400	4	00116	READ SXD AX4,4	SAVE THE ORIGINAL C(XR1),	DBC/309
00317	-0	63400	1	00114	SXD AX1,1	SAVE THE ORIGINAL C(XR2), AND	DBC/310
00320	-0	63400	2	00115	SXD AX2,2	SWITCH (TXL=TRA, TXH=NOP).	DBC/311
00321	-3	00000	0	00313	CNVSW TXL XREAD,0,**		DBC/312
							DBC/313
00322	0	50000	0	00634	CLA MZE		DBC/314
00323	0	60100	0	77743	STO N		DBC/315
00324	0	60200	0	77747	SLW V		DBC/316
00325	0	60200	0	77742	SLW DG		DBC/317
00326	0	50200	0	77732	CLS DIG		DBC/318
00327	0	60100	0	77750	STO D		DBC/319
00330	0	50000	0	77740	CLA EXP		DBC/320
00331	0	60100	0	77744	STO E		DBC/321
00332	0	53400	4	77731	LXA INT,4		DBC/322
00333	0	56000	0	77736	LDQ MQD		DBC/323
00334	-0	53400	1	00347	LXD DX1,1		DBC/324
00335	-0	53400	2	00350	LXD DX2,2		DBC/325
00336	-0	14000	0	00337	TNO F6		DBC/326
00337	2	00001	1	00343	F6 TIX F1,1,1		DBC/327
00340	1	77777	2	00341	TXI F2,2,-1		DBC/328
00341	-0	53400	1	00061	F2 LXD SIX,1		DBC/329
00342	0	56000	2	77751	LDQ BCD,2		DBC/330
00343	-0	75400	0	00000	F1 PXD ,0		DBC/331
00344	-0	76300	0	00006	LGL 6		DBC/332
00345	-3	00000	4	00520	TXL D6,4,0		DBC/333
00346	0	34000	0	00631	CAS BLANK		DBC/334
00347	1	00000	0	00363	DX1 TXI STOP1,0,**		DBC/335
00350	1	00000	0	00367	DX2 TXI F3,0,**		DBC/336
00351	0	34000	0	00617	CAS MINUS		DBC/337
D 00352	1	00000	0	00363	TXI STOP1,0		DBC/338
D 00353	1	00000	0	00361	TXI F4,0		DBC/339
00354	0	34000	0	00632	CAS PLUS		DBC/340
D 00355	1	00000	0	00454	TXI C5L,0		DBC/341
D 00356	1	00000	0	00364	TXI F5,0		DBC/342
00357	0	34000	0	00633	CAS NEGAT		DBC/343
D 00360	1	00000	0	00363	TXI STOP1,0		DBC/344
00361	0	50000	0	00634	F4 CLA MZE		DBC/345
00362	0	34000	0	00627	CAS TEN		DBC/346
00363	0	42000	1	00001	STOP1 HPR 1,1		DBC/347
00364	-0	75400	0	00000	F5 PXD ,0		DBC/348
00365	0	60100	0	77742	STO DG		DBC/349
D 00366	1	00000	0	00516	TXI D9,0		

	00367	2	00001	4	00337	F3	TIX	F6,4,1	DBC/350
D	00370	1	00000	0	00520		TXI	D6,0	DBC/351
	00371	-2	00001	4	00417	E1	TXN	E5,4,1	DBC/352
	00372	2	00001	1	00376		TIX	E2,1,1	DBC/353
	00373	1	77777	2	00374		TXI	E3,2,-1	DBC/354
	00374	-0	53400	1	00061	E3	LXD	SIX,1	DBC/355
	00375	0	56000	2	77751		LDQ	BCD,2	DBC/356
	00376	-0	75400	0	00000	E2	PXD	,0	DBC/357
	00377	-0	76300	0	00006		LGL	6	DBC/358
	00400	0	34000	0	00631		CAS	BLANK	DBC/359
D	00401	1	00000	0	00416		TXI	STOP2,0	DBC/360
D	00402	1	00000	0	00371		TXI	E1,0	DBC/361
	00403	-0	63400	4	00424		SXD	ER,4	DBC/362
	00404	0	34000	0	00617	C2L	CAS	MINUS	DBC/363
D	00405	1	00000	0	00424		TXI	ER,0	DBC/364
D	00406	1	00000	0	00414		TXI	E4,0	DBC/365
	00407	0	34000	0	00632	C4L	CAS	PLUS	DBC/366
D	00410	1	00000	0	00424		TXI	ER,0	DBC/367
D	00411	1	00000	0	00417		TXI	E5,0	DBC/368
	00412	0	34000	0	00633		CAS	NEGAT	DBC/369
D	00413	1	00000	0	00424		TXI	ER,0	DBC/370
	00414	0	50000	0	00634	E4	CLA	MZE	DBC/371
	00415	0	34000	0	00627		CAS	TEN	DBC/372
	00416	0	42000	1	00002	STOP2	HPR	2,1	DBC/373
	00417	-0	75400	0	00000	E5	PXD	,0	DBC/374
	00420	0	60100	0	77744		STO	E	DBC/375
	00421	-2	00001	4	00520		TXN	D6,4,1	DBC/376
	00422	2	00001	1	00430	E9	TIX	E6,1,1	DBC/377
	00423	1	77777	2	00426		TXI	E7,2,-1	DBC/378
	00424	3	00000	4	00452	ER	TXH	STOP4,4,**	DBC/379
D	00425	1	00000	0	00416		TXI	STOP2,0	DBC/380
	00426	-0	53400	1	00061	E7	LXD	SIX,1	DBC/381
	00427	0	56000	2	77751		LDQ	BCD,2	DBC/382
	00430	-0	75400	0	00000	E6	PXD	,0	DBC/383
	00431	-0	76300	0	00006		LGL	6	DBC/384
	00432	0	34000	0	00631		CAS	BLANK	DBC/385
D	00433	1	00000	0	00436		TXI	STOP3,0	DBC/386
D	00434	1	00000	0	00437		TXI	E8,0	DBC/387
	00435	0	34000	0	00627		CAS	TEN	DBC/388
	00436	0	42000	1	00003	STOP3	HPR	3,1	DBC/389
	00437	-0	75400	0	00000	E8	PXD	,0	DBC/390
	00440	0	60100	0	77742		STO	DG	DBC/391
	00441	0	50000	0	77744		CLA	E	DBC/392
	00442	0	76700	0	00002		ALS	2	DBC/393
	00443	0	40000	0	77744		ADD	E	DBC/394
	00444	0	76700	0	00001		ALS	1	DBC/395
	00445	0	36100	0	77742		ACL	DG	DBC/396
	00446	0	60100	0	77744		STO	E	DBC/397
	00447	2	00001	4	00422		TIX	E9,4,1	DBC/398
D	00450	1	00000	0	00520		TXI	D6,0	DBC/399
	00451	0	34000	0	00631	C1L	CAS	BLANK	DBC/400
	00452	0	42000	1	00004	STOP4	HPR	4,1	DBC/401
D	00453	1	00000	0	00506		TXI	D7,0	DBC/402
	00454	-0	63400	4	77746	C5L	SXD	U,4	DBC/403

542

	00455	0	62200	0	00424	STD ER	DBC/404
	00456	0	34000	0	00621	CAS POINT	DBC/405
D	00457	1	00000	0	00404	TXI C2L,0	DBC/406
	00460	1	77777	4	00465	TXI C3L,4,-1	DBC/407
	00461	0	34000	0	00625	CAS EXPON	DBC/408
D	00462	1	00000	0	00452	TXI STOP4,0	DBC/409
D	00463	1	00000	0	00371	TXI E1,0	DBC/410
D	00464	1	00000	0	00407	TXI C4L,0	DBC/411
	00465	-0	75400	4	00000	C3L PXD ,4	DBC/412
	00466	0	77100	0	00022	ARS 18	DBC/413
	00467	0	60100	0	77746	STO U	DBC/414
	00470	0	60100	0	77750	STO D	DBC/415
	00471	1	00001	4	00517	TXI D8,4,1	DBC/416
	00472	0	50000	0	77747	D4 CLA V	DBC/417
	00473	0	40000	0	00626	ADD ONE	DBC/418
	00474	0	60100	0	77747	STO V	DBC/419
	00475	-2	00001	4	00520	TXN D6,4,1	DBC/420
	00476	2	00001	1	00502	D5 TIX D1,1,1	DBC/421
	00477	1	77777	2	00500	TXI D2,2,-1	DBC/422
	00500	0	53400	1	00503	D2 LXA D3,1	DBC/423
	00501	0	56000	2	77751	LDQ BCD,2	DBC/424
	00502	-0	75400	0	00000	D1 PXD ,0	DBC/425
	00503	-0	76300	0	00006	D3 LGL 6	DBC/426
	00504	0	34000	0	00627	CAS TEN	DBC/427
D	00505	1	00000	0	00451	TXI C1L,0	DBC/428
	00506	-0	75400	0	00000	D7 PXD ,0	DBC/429
	00507	0	62100	0	77742	STA DG	DBC/430
	00510	0	50000	0	77743	CLA N	DBC/431
	00511	0	76700	0	00002	ALS 2	DBC/432
	00512	0	40000	0	77743	ADD N	DBC/433
	00513	0	76700	0	00001	ALS 1	DBC/434
	00514	0	40000	0	77742	ADD DG	DBC/435
	00515	0	14000	0	00472	TOV D4	DBC/436
	00516	0	60100	0	77743	D9 STO N	DBC/437
	00517	2	00001	4	00476	D8 TIX D5,4,1	DBC/438
	00520	0	50000	0	77743	D6 CLA N	DBC/439
	00521	-0	60000	0	77736	STQ MQD	DBC/440
	00522	-0	63400	1	00347	SXD DX1,1	DBC/441
	00523	-0	63400	2	00350	SXD DX2,2	DBC/442
D	00524	-3	00000	0	00600	FIXSW TXL T1,0	DBC/443
	00525	0	10000	0	00601	TZE T2	DBC/444
	00526	0	50000	0	77750	CLA D	DBC/445
	00527	-0	12000	0	00533	TMI ADE	DBC/446
	00530	0	50000	0	77746	CLA U	DBC/447
	00531	0	77100	0	00022	ARS 18	DBC/448
	00532	0	40200	0	77750	SUB D	DBC/449
	00533	0	40000	0	77744	ADE ADD E	DBC/450
	00534	0	40000	0	77747	ADD V	DBC/451
	00535	0	60100	0	77750	STO D	DBC/452
	00536	0	50000	0	77743	CLA N	DBC/453
	00537	0	62100	0	00635	STA K1	DBC/454
	00540	0	77100	0	00017	ARS 15	DBC/455
	00541	-0	50100	0	00636	ORA K2	DBC/456
	00542	0	30000	0	00636	FAD K2	DBC/457

00543 0 60100 0 77745  
00544 0 76000 0 00000  
00545 -0 50100 0 00635  
00546 0 30000 0 77745  
00547 -0 77300 0 00010  
00550 0 76000 0 00010  
00551 -0 50100 0 00637  
00552 0 53400 4 77750  
00553 -3 00000 4 00601  
00554 0 56000 0 77750  
00555 0 16200 0 00566  
00556 3 00061 4 00564  
00557 0 24100 4 00722  
00560 -0 60000 0 77745  
00561 0 50000 0 77745  
00562 0 36100 0 00640  
00563 -0 76000 0 00001  
00564 0 76000 0 00000 T5  
D 00565 1 00000 0 00601  
00566 0 60100 0 77745 T4  
00567 3 00061 4 00575  
00570 0 56000 0 77745  
00571 0 26000 4 00722  
00572 0 36100 0 00641  
00573 -0 76000 0 00001  
D 00574 1 00000 0 00601  
00575 0 76000 0 00000 T3  
00576 0 76000 0 00006  
D 00577 1 00000 0 00601  
00600 0 76700 0 00022 T1  
00601 -0 53400 4 00604 T2  
00602 2 00001 4 00605  
00603 0 60100 0 77733  
00604 1 00000 0 00300 COUNT  
00605 -0 63400 4 00604 MORE

00606 -0 53400 4 00116 LIST  
00607 -0 53400 1 00114  
00610 -0 53400 2 00115  
00611 0 02000 4 00001

STO F  
CLM  
ORA K1  
FAD F  
RQL 8  
RND  
ORA K3  
LXA D,4  
TXL T2,4,0  
LDQ D  
TQP T4  
TXH T5,4,49  
FDP TAB,4  
STQ F  
CLA F  
ACL K4  
PBT  
CLM  
TXI T2,0  
STO F  
TXH T3,4,49  
LDQ F  
FMP TAB,4  
ACL K5  
PBT  
TXI T2,0  
CLM  
COM  
TXI T2,0  
ALS 18  
LXD COUNT,4  
TIX MORE,4,1  
STO DATUM  
TXI DONE,0,\*\*  
SXD COUNT,4  
LIST = ENTRY POINT USED BY FIELD.  
LXD AX4,4  
LXD AX1,1  
LXD AX2,2  
TRA 1,4

END OF PROGRAM READ.

\*\*\*\*\*

CONSTANTS AND WORKING STORAGE USED BY DBC.

00612 +000000000077 ENDMK OCT 77  
00613 000000000074 ( BCD 100000(  
00614 000000000073 COMMA BCD 100000,  
00615 000000000061 SLASH BCD 100000/  
00616 000000000047 P BCD 100000P  
00617 000000000040 MINUS BCD 100000-  
00620 000000000034 ) BCD 100000)  
00621 000000000033 POINT BCD 100000.  
00622 000000000031 I BCD 100000I  
00623 000000000030 H BCD 100000H

UPDATE FIELD COUNT, AND  
IF EXHAUSTED, THEN  
SAVE THE CONVERTED FIELD, AND  
\* (FIELD REPEAT COUNT) EXAMINE FORMAT.  
OTHERWISE, GO EXAMINE LIST.  
SET XR4 FOR INDICATED RETURN,  
RESTORE THE ORIGINAL C(XR1),  
RESTORE THE ORIGINAL C(XR2), AND  
\* GO STORE (OR CONVERT) INPUT.

DBC/458  
DBC/459  
DBC/460  
DBC/461  
DBC/462  
DBC/463  
DBC/464  
DBC/465  
DBC/466  
DBC/467  
DBC/468  
DBC/469  
DBC/470  
DBC/471  
DBC/472  
DBC/473  
DBC/474  
DBC/475  
DBC/476  
DBC/477  
DBC/478  
DBC/479  
DBC/480  
DBC/481  
DBC/482  
DBC/483  
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DBC/493  
DBC/494  
DBC/495  
DBC/496  
DBC/497  
DBC/498  
DBC/499  
DBC/500  
DBC/501  
DBC/5015  
DBC/502  
DBC/503  
DBC/504  
DBC/505  
DBC/506  
DBC/507  
DBC/508  
DBC/509  
DBC/510

End







1  
1

ABS

CONTROL CARD FOR CSH.

CSH/C01  
CSH/C02  
CSH/C03  
CSH/C04  
CSH/C05  
CSH/C06  
CSH/C07  
CSH 0001  
CSH 0002  
CSH 0003  
CSH 0004  
CSH 0005  
CSH 0006  
CSH 0007  
CSH 0008  
CSH 0009  
CSH 0010  
CSH 0011  
CSH 0012  
CSH 0013  
CSH 0014  
CSH 0015  
CSH 0016  
CSH 0017  
CSH 0018  
CSH 0019  
CSH 0020  
CSH 0021  
CSH 0022  
CSH 0023  
CSH 0024  
CSH 0025  
CSH 0026  
CSH 0027  
CSH 0028  
CSH 0029  
CSH 0030  
CSH 0031  
CSH 0032  
CSH 0033  
CSH 0034  
CSH 0035  
CSH 0036  
CSH 0037  
CSH 0038  
CSH 0039  
CSH 0040  
CSH 0041  
CSH 0042  
CSH 0043  
CSH 0044  
CSH 0045  
CSH 0046

00000 00000  
00000 0 00000 0 00211  
00001 0 00000 0 77767  
00002 742362303460  
00003 0 00000 0 00003

ORG 0  
PZE C7+13  
PZE COMMON  
BCD 1(CSH)  
3  
END OF CSH CONTROL CARD  
CSH FOR FORTRAN II

00000 00000  
77767 COMMON SYN  
00000 0 42000 2 00000 B17  
00001 -0 53400 1 00016 HPR 0,2  
00002 -0 53400 2 00020 LXD B2,1  
00003 0 76200 0 00321 RDBCD LXD B3,2  
00004 0 70000 0 77776 RCD  
00005 -3 00000 0 00007 CPY L  
00006 0 02000 4 00002 TXL B1  
00007 -0 60000 0 77770 B1 TRA 2,4  
00010 -0 63400 1 00016 STQ LS  
00011 -0 63400 2 00020 SXD B2,1  
00012 -0 53400 1 00026 SXD B3,2  
00013 0 70000 0 77777 LXD B4,1  
00014 -0 60000 0 77771 CPY R  
00015 0 07400 2 00156 STQ RS  
00016 -3 00000 0 00021 B2 TSX C1,2  
00017 0 76700 0 00001 ALS 1  
00020 -3 00000 0 00064 B3 TXL C2  
00021 0 70000 0 77772 B5 CPY 8L  
00022 -0 60000 0 77770 STQ LS  
00023 0 70000 0 77773 CPY 8R  
00024 -0 60000 0 77771 STQ RS  
00025 0 07400 2 00156 TSX C1,2  
00026 -3 00010 0 00031 B4 TXL B6,0,8  
00027 0 76700 0 00003 ALS 3  
00030 -3 00000 0 00063 TXL C3  
00031 -0 50000 0 77776 B6 CAL L  
00032 0 60200 0 77770 SLW LS  
00033 -0 50000 0 77777 CAL R  
00034 0 60200 0 77771 SLW RS  
00035 -3 00001 1 00112 B13 TXL B7,1,1  
00036 0 70000 0 77776 B14 CPY L  
00037 -3 00000 0 00073 TXL B8  
00040 0 02000 0 00000 TRA B17  
00041 -0 50000 0 77770 B9 CAL LS  
00042 0 60200 0 77776 SLW L  
00043 -0 50000 0 77772 CAL LDS  
00044 0 76000 0 00006 COM  
00045 -0 32000 0 77774 ANA LZ  
00046 0 32000 0 77770 ANS LS  
00047 -0 50000 0 77771 CAL RS  
00050 0 60200 0 77777 SLW R  
00051 -0 50000 0 77773 CAL RDS  
00052 0 76000 0 00006 COM

NON-HOLLERITH CHARACTER ON CARD  
RESTART AFTER ERROR  
X

X  
END OF FILE EXIT  
SET LEFT SUM  
SAVE INDEX REGISTERS  
X  
SET DIGIT ROW COUNT  
COPY 9 RIGHT ROW AND  
SET RIGHT SUM  
ENTER CONVERSION LOOP  
LEAVE CONVERSION LOOP

INITIALIZE BCD RECORD  
COPY 8 ROW AND  
USE AS SUM  
X  
X  
ENTER CONVERSION LOOP  
LEAVE CONVERSION LOOP  
ADD 8 TIMES 8 ROW  
X  
USE 9 ROW AS SUM  
X  
X  
TEST FOR ZERO ROW  
COPY LEFT ROW AND  
TEST FOR END OF RECORD

SAVE LEFT ZONE SUM  
X  
FORM INDICATOR FOR  
ZERO AND X AND / OR Y  
IN LEFT ROWS  
X  
SAVE RIGHT ZONE SUM  
X  
FORM INDICATOR FOR  
ZERO AND X AND/OR Y

17

	00053	-0	32000	0	77775		ANA RZ	IN RIGHT ROWS	CSH 0047
	00054	0	32000	0	77771		ANS RS	X	CSH 0048
	00055	0	07400	2	00156		TSX C1,2	ENTER CONVERSION LOOP	CSH 0049
TD	00056	-3	00000	0	00132		TXL B15	LEAVE CONVERSION LOOP	CSH 0050
	00057	0	60200	0	77767		SLW TP	MULTIPLY INDICATOR	CSH 0051
	00060	0	76700	0	00002		ALS 2	BITS BY TEN	CSH 0052
	00061	0	36100	0	77767		ACL TP	X	CSH 0053
	00062	0	76700	0	00001		ALS,1	X	CSH 0054
	00063	0	36100	1	00000	C3	ACL 0,1	ADD TO BCD RECORD	CSH 0055
	00064	0	60200	1	00000	C2	SLW 0,1	STORE IN BCD RECORD	CSH 0056
	00065	2	00001	1	00174		TIX C7,1,1	COUNT WORDS	CSH 0057
	00066	0	50200	0	00162	C11	CLS C4	INVERT ROW SWITCH AND	CSH 0058
	00067	0	60100	0	00162		STO C4	TEST FOR RIGHT ROW DONE	CSH 0059
	00070	-0	73400	1	00003	(CSH)	PDX RDBCD,1	RESTORE ROW COUNT	CSH 0060
TD	00071	-0	12000	2	00001		TMI 1,2	TRANSFER IF RIGHT ROW DONE	CSH 0061
	00072	1	00000	0	00157	C10	TXI C9	GO CONVERT RIGHT ROW	CSH 0062
	00073	-0	50000	0	77776	B8	CAL L	TEST LEFT ROW FOR	CSH 0063
	00074	-0	32000	0	77770		ANA LS	ILLEGAL DOUBLE PUNCH	CSH 0064
	00075	-0	10000	0	00000		TNZ B17	X	CSH 0065
	00076	-0	50000	0	77776	B10	CAL L	FORM LOGICAL SUM	CSH 0066
	00077	-0	60200	0	77770		ORS LS	OF LEFT ROWS	CSH 0067
	00100	0	70000	0	77777		CPY R	COPY RIGHT ROW AND	CSH 0068
	00101	-0	50000	0	77777		CAL R	TEST FOR ILLEGAL	CSH 0069
	00102	-0	32000	0	77771		ANA RS	DOUBLE PUNCH	CSH 0070
	00103	-0	10000	0	00000		TNZ B17	X	CSH 0071
	00104	-0	50000	0	77777	B11	CAL R	FORM LOGICAL SUM OF	CSH 0072
	00105	-0	60200	0	77771		ORS RS	RIGHT ROWS	CSH 0073
	00106	-2	00001	1	00126		TXN B12,1,1	TEST FOR ZONE ROWS	CSH 0074
TD	00107	0	07400	2	00156		TSX C1,2	ENTER CONVERSION LOOP	CSH 0075
TD	00110	-3	00000	0	00035		TXL B13	LEAVE CONVERSION LOOP	CSH 0076
	00111	-3	00000	0	00063		TXL C3	ADD TO BCD RECORD	CSH 0077
	00112	-0	50000	0	77772	B7	CAL 8L	ADD 8 LEFT ROW TO	CSH 0078
	00113	-0	50100	0	77770		ORA LS	LEFT LOGICAL SUM	CSH 0079
	00114	0	60200	0	77772		SLW LDS	X	CSH 0080
	00115	0	70000	0	77774		CPY LZ	COPY ZERO LEFT AND	CSH 0081
	00116	-0	32000	0	77774		ANA LZ	FORM INDICATOR FOR	CSH 0082
	00117	0	60200	0	77770		SLW LS	BOTH DIGIT AND ZERO	CSH 0083
	00120	-0	50000	0	77773		CAL 8R	ADD 8 RIGHT ROW TO	CSH 0084
	00121	-0	50100	0	77771		ORA RS	RIGHT LOGICAL SUM	CSH 0085
	00122	0	60200	0	77773		SLW RDS	X	CSH 0086
	00123	0	70000	0	77775		CPY RZ	COPY ZERO RIGHT AND	CSH 0087
	00124	-0	32000	0	77775		ANA RZ	FORM INDICATOR FOR	CSH 0088
	00125	0	60200	0	77771		SLW RS	BOTH DIGIT AND ZERO	CSH 0089
TD	00126	0	07400	2	00156	B12	TSX C1,2	ENTER CONVERSION LOOP	CSH 0090
	00127	-3	00000	0	00036		TXL B14	LEAVE CONVERSION LOOP	CSH 0091
TD	00130	0	76700	0	00004		ALS 4	SHIFT TO ZONE POSITION	CSH 0092
	00131	-3	00000	0	00063		TXL C3	X	CSH 0093
	00132	-0	50000	0	77772	B15	CAL LDS	FORM INDICATOR FOR	CSH 0094
	00133	-0	50100	0	77774		ORA LZ	BLANK COLUMNS IN	CSH 0095
	00134	-0	50100	0	77776		ORA L	LEFT HALF OF CARD	CSH 0096
	00135	0	76000	0	00006		COM	X	CSH 0097
	00136	0	60200	0	77770		SLW LS	X	CSH 0098
	00137	-0	50000	0	77773		CAL RDS	FORM INDICATOR FOR	CSH 0099
	00140	-0	50100	0	77775		ORA RZ	BLANK COLUMNS IN	CSH 0100

	00141	-0	50100	0	77777		ORA R	RIGHT HALF OF CARD	CSH 0101
	00142	0	76000	0	00006		COM	X	CSH 0102
	00143	0	60200	0	77771		SLW RS	X	CSH 0103
	00144	0	07400	2	00156		TSX C1,2	ENTER CONVERSION LOOP	CSH 0104
TD	00145	-3	00000	0	00153		TXL B16	LEAVE CONVERSION LOOP	CSH 0105
	00146	0	60200	0	77767		SLW TP	MULTIPLY INDICATOR	CSH 0106
	00147	0	76700	0	00001		ALS 1	BITS BY 3 AND	CSH 0107
	00150	0	36100	0	77767		ACL TP	SHIFT TO ZONE POSITION	CSH 0108
	00151	0	76700	0	00004		ALS 4	X	CSH 0109
TD	00152	-3	00000	0	00063		TXL C3	X	CSH 0110
	00153	-0	53400	1	00016	B16	LXD B2,1	RESTORE INDEX REGISTERS	CSH 0111
	00154	-0	53400	2	00020		LXD B3,2	AND RETURN TO MAIN	CSH 0112
	00155	0	02000	4	00003		TRA 3,4	PROGRAM	CSH 0113
	00156	-0	63400	1	00162	C1	SXD C4,1	SAVE ROW COUNT	CSH 0114
	00157	-0	50000	4	00001	C9	CAL 1,4	INITIALIZE ADDRESSES	CSH 0115
	00160	0	40100	0	00174		ADM C7	X ADD 6	CSH 0116
	00161	0	56000	0	77770	C6	LDQ LS	OBTAIN LEFT SUM	CSH 0117
	00162	-3	00000	0	00165	C4	TXL C8,***	TRANSFER IF LEFT ROW	CSH 0118
	00163	0	40100	0	00174		ADM C7	RIGHT ROW, ADD 6 MORE	CSH 0119
	00164	0	56000	0	77771		LDQ RS	OBTAIN RIGHT SUM AND	CSH 0120
	00165	0	62100	0	00064	C8	STA C2	SET BCD RECORD ADDRESS	CSH 0121
	00166	0	62100	0	00063		STA C3	X	CSH 0122
	00167	3	00001	1	00173		TXH C5,1,1	SKIP TEST IF DIGIT ROW	CSH 0123
	00170	-0	60000	0	77767		STQ TP	TEST FOR NO SUM	CSH 0124
	00171	-0	50000	0	77767		CAL TP	X	CSH 0125
	00172	0	10000	0	00066		TZE C11	X	CSH 0126
	00173	0	53400	1	00174	C5	LXA C7,1	SET WORD COUNT	CSH 0127
T	00174	-0	75400	0	00006	C7	PXD 6	CONVERT ROW	CSH 0128
	00175	-0	76300	0	00001		LGL 1	X	CSH 0129
	00176	0	76700	0	00005		ALS 5	X	CSH 0130
	00177	-0	76300	0	00001		LGL 1	X	CSH 0131
	00200	0	76700	0	00005		ALS 5	X	CSH 0132
	00201	-0	76300	0	00001		LGL 1	X	CSH 0133
	00202	0	76700	0	00005		ALS 5	X	CSH 0134
	00203	-0	76300	0	00001		LGL 1	X	CSH 0135
	00204	0	76700	0	00005		ALS 5	X	CSH 0136
	00205	-0	76300	0	00001		LGL 1	X	CSH 0137
	00206	0	76700	0	00005		ALS 5	X	CSH 0138
	00207	-0	76300	0	00001		LGL 1	X	CSH 0139
	00210	0	02000	2	00002		TRA 2,2	EXIT FOR ROW PROCEDURE	CSH 0140
					77767		ORG COMMON		CSH 0141
					77767	TP	BSS 1	TEMPORARY	CSH 0142
					77770	LS	BSS 1	LEFT SUM	CSH 0143
					77771	RS	BSS 1	RIGHT SUM	CSH 0144
					77772	LDS	BSS 1	LEFT DIGIT SUM	CSH 0145
					77773	RDS	BSS 1	RIGHT DIGIT SUM	CSH 0146
					77774	LZ	BSS 1	LEFT ZERO ROW	CSH 0147
					77775	RZ	BSS 1	RIGHT ZERO ROW	CSH 0148
					77776	L	BSS 1	LEFT ROW	CSH 0149
					77777	R	BSS 1	RIGHT ROW	CSH 0150
					77772	8L	SYN LDS	8 LEFT ROW	CSH 0151
					77773	8R	SYN RDS	8 RIGHT ROW	CSH 0152
					00000		END		CSH 0153

1  
1

ABS

```

00000 0 00000 0 00025
00001 0 00000 0 00000
00002 746362303460
00003 0 00000 0 00000

00000 00000
00000 -0 63400 2 00022
00001 -0 76000 0 00012
00002 0 76100 0 00000
00003 0 50000 4 00001
00004 0 62100 0 00011
00005 0 50000 0 00023
00006 0 60100 0 00015
00007 0 76200 1 00177
00010 -0 53400 2 00023
00011 0 70000 2 00011
00012 1 77777 2 00011
00013 1 00001 4 00016
00014 -0 76000 0 00012
U 00015 00000 0 00000
00016 -0 53400 2 00022
00017 0 02000 4 00003
00020 0 76400 1 00377
00021 0 50000 0 00024
TD 00022 1 00000 0 00006
TD 00023 1 00000 0 00020
A 00024 0 42000 3 00000
00000

```

CONTROL CARD FOR TSH.

```

ORG 0
PZE BAD+1
PZE
BCD 1(TSH)
PZE
END OF TSH CONTROL CARD.
ORG 0
RTD SXD X2,2
RTT
(TSH) NOP RTD
CLA 1,4
STA CPY
CLA BAC
REP STO ERR
RDS 127,1
LXD BAC,2
CPY CPY *,2
TXI CPY,2,-1
TXI RES,4,1
RTT
ERR ***
RES LXD X2,2
TRA 3,4
TRY BST 127,1
CLA BAD
X2 TXI REP
BAC TXI TRY
BAD HPR 0,3
END
SAVE INDEX REGISTER
CLEAR RTT INDICATOR
X
OBTAIN ADDRESS OF 1ST
LOCATION FOR COPY
INITIALIZE TAPE CHECK TEST
TO REREAD AFTER 1ST ERROR.
SELECT TAPE
SET IR2 TO ZERO
READ TAPE RECORD OF
N WORDS
EOF (END OF LIST)
EOR REDUNDANCY TEST
IF ERROR, REREAD
RETURN TO MAIN
PROGRAM FOR EOF
PREPARE TO REREAD BAD
RECORD
X
2ND ERROR HALT

```

```

TSH/C01
TSH/C02
TSH/C03
TSH/C04
TSH/C05
TSH/C06
TSH/C07
TSH000
TSH001
TSH002
TSH003
TSH004
TSH005
TSH006
TSH007
TSH008
TSH009
TSH010
TSH011
TSH012
TSH013
TSH014
TSH015
TSH016
TSH017
TSH018
TSH019
TSH020
TSH021
TSH022

```

900

1  
1  
1

REM 704 FORTRAN II / DBC / 12 JAN 59.  
REM 704 FORTRAN II / BDC / 12 JAN 59.  
704 FORTRAN II / BDC / 12 JAN 59.

THE FOLLOWING CONVENTIONS ARE USED IN THIS LISTING=  
\*\* IN THE ADDRESS, TAG, OR DECREMENT OF AN INSTRUCTION  
INDICATES THAT THIS FIELD WILL BE MODIFIED BY THE PROGRAM.  
\* IN COL/36 INDICATES THE INSTRUCTION IS A TRANSFER OUT OF  
THIS LOGICAL BLOCK OR SUBROUTINE.  
C IN COL/34 INDICATES THE INSTRUCTION WAS CORRECTED.  
P IN COL/32 INDICATES THE INSTRUCTION WAS INSERTED (PATCH).  
\*\*\*\*\*

CONTROL CARD FOR BDC.

		00000	ORG		BDC/C01
			PZE TAB+1,,1		BDC/C02
			PZE COMMON		BDC/C03
			BCD 1(BDC)		BDC/C04
			PZE (BDC)		BDC/C05
			BCD 1(FIL)		BDC/C06
			MZE (FIL)		BDC/C07
			END OF BDC CONTROL CARD.		BDC/C08
			*****		BDC/C13
		00000	ORG 0		BDC/001
			(BDC)/ CALLS=LINE,PRINT. CALLER=MAIN PROGRAM.		BDC/002
			(BDC) CONTROLS BINARY TO DECIMAL CONVERSION AND OUTPUT.		BDC/003
			BCD 1(RTN)		BDC/0035
			TTR NEW	INSTRUCTION EXECUTED IN LOCATION 1.	BDC/004
			NEW = ENTRY POINT FROM MAIN PROGRAM (C(AC)= ADDRESS OF OUTPUT		BDC/005
			ROUTINE TO HANDLE CURRENT OUTPUT, AND C(0)= LOCATION OF THE		BDC/006
			CURRENT FORMAT STATEMENT).		BDC/007
			LTM	SET FILLW TO CALL THE INDICATED	BDC/008
			STA TYPE	TYPE OF OUTPUT ROUTINE.	BDC/009
			CAL 0	SET OUTPUT FORMAT STATEMENT	BDC/010
			STA CALL	LOCATION.	BDC/011
			ADD ONE	SET EXIT	BDC/012
			STA FX4	TO MAIN PROGRAM.	BDC/013
			CAL **	OBTAIN FORMAT STATEMENT	BDC/014
			SXD FX4,4	FOR SCAN.	BDC/015
			TSX LINE,4	* GO SCAN FORMAT.	BDC/016
			LXD FX4,4	WHEN DONE, RESTORE C(XR4).	BDC/017
			CAL TRAP	SET LOCATION 1 FOR FUTURE	BDC/018
			SLW 1	TRAP TRANSFER TO SEEK, AND	BDC/019
			TXI **,0,**	* TRANSFER CONTROL TO MAIN PROGRAM.	BDC/020
			THE MAIN PROGRAM CONTROLS	ALL INDEXING OF THE LIST.	BDC/021
			TTR SEEK	INSTRUCTION EXECUTED IN LOCATION 1.	BDC/022
			SEEK = REENTRY POINT FROM MAIN PROGRAM (C(I0)= LOCATION OF		BDC/023
			THE ADDRESS OF THE NEXT OUTPUT NUMBERS).		BDC/024
			LTM	PICKUP NTR INSTRUCTION, AND	BDC/025
			CAL 0	SET LOCATION	BDC/026
			STA SETL	OF OUTPUT NUMBERS.	BDC/027
			ADD ONE	SET LOCATION FOR	BDC/028
			STA OUT	RETURN TO MAIN PROGRAM.	BDC/029

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00025 -0 50000 0 00000 SETL CAL ** PICKUP LOCATION OF OUTPUT BDC/030
00026 0 60200 0 00031 SLW GET AND SET ADDRESS AND TAG OF GET. BDC/031
00027 0 56000 0 00042 LDQ CLA SET GET OP BDC/032
00030 -0 62000 0 00031 SLQ GET TO CLA. BDC/033
00031 0 50000 0 00000 GET CLA **,** GET OUTPUT NUMBER. BDC/034
00032 -0 63400 4 00016 SXD FX4,4 SAVE THE C(XR4), AND BDC/035
00033 0 07400 4 00315 TSX PRINT,4 * GO CONVERT AND PRINT OUTPUT. BDC/036
00034 -0 53400 4 00016 LXN FX4,4 RESTORE THE C(XR4). BDC/037
00035 0 76000 0 00007 ETM REPEAT UNTIL LIST IS EXHAUSTED, BDC/038
00036 0 02100 0 00000 OUT TTR ** * UNDER CONTROL OF THE MAIN PROGRAM. BDC/039
                                     END OF PROGRAM (BDC). BDC/040
                                     ***** BDC/041
                                     (FIL)/ CALLS=FILLW, USES=(RTN). CALLER=MAIN PROGRAM. BDC/043
                                     (FIL) CONTROLS TRANSMISSION OF ANY REMAINING OUTPUT FROM REC. BDC/044
00037 0 40000 0 00600 (FIL) ADD TWO SET ADDRESS FOR BDC/045
00040 0 62100 0 00055 STA RET RETURN TO MAIN PROGRAM. BDC/046
00041 -0 76000 0 00007 LTM IF NO BDC/047
00042 0 50000 0 00476 CLA CLA PACK OUTPUT REMAINS BDC/048
00043 0 40200 0 00545 SUB FILT IN REC BUFFER, BDC/049
00044 -0 10000 0 00050 TNZ LAST OR IN. BDC/050
00045 0 50000 0 77777 CLA WORD WORD INDICATOR, BDC/051
00046 0 40200 0 00577 SUB ONE THEN BDC/052
00047 0 10000 0 00053 TZE EXIT * EXIT TO RESTORE ALL INDICATORS. BDC/053
00050 -0 63400 4 00016 LAST SXD FX4,4 OTHERWISE, SAVE THE C(XR4), AND BDC/054
00051 0 07400 4 00515 TSX FILLW,4 * GO TRANSMIT REMAINING OUTPUT. BDC/055
00052 -0 53400 4 00016 LXN FX4,4 RESTORE THE C(XR4), AND BDC/056
00053 -0 50000 0 00053 EXIT CAL EXIT PICKUP EXIT ADDRESS, AND BDC/057
00054 1 00000 0 00000 FILLX TXI (RTN),0,** * EXIT TO RESTORE ALL INDICATORS. BDC/0575
00055 0 02100 0 00000 RET TTR ** THEN RETURN TO MAIN PROGRAM BDC/0576
                                     END OF PROGRAM (FIL). BDC/058
                                     ***** BDC/059
                                     LINE,4/ CALLS=RESET, FIELD, FILLW. USES=PRINT. CALLER=(BDC). BDC/156
                                     LINE SCANS THE FORMAT STATEMENT FOR EACH LINE OF OUTPUT. BDC/157
00056 -0 63400 4 00135 LINE SXD AX4,4 SAVE THE C(XR4) FOR RETURN. BDC/158
00057 -0 63400 1 00133 SXD AX1,1 SAVE THE ORIGINAL C(XR1), AND BDC/159
00060 -0 63400 2 00134 SXD AX2,2 SAVE THE ORIGINAL C(XR2). BDC/160
00061 0 76000 0 00006 COM COMPLEMENT THE C(AC), AND BDC/161
00062 0 73400 2 00007 SEVEN PAX 7,2 SET XR2= -(CURRENT FORMAT LOC.), AND BDC/162
00063 0 62200 0 00105 STD UNIT UNIT DECREMENT= -(CURRENT UNIT). BDC/163
00064 0 60000 0 77750 STZ PEX SET PEX (SCALE FACTOR) = 0, AND BDC/164
00065 0 07400 4 00544 TSX RESET,4 * SET REC=BLANKS, PACK=REC, WORD=1. BDC/165
00066 0 60100 0 77745 STO INT SET INT = 1. BDC/166
00067 0 53400 1 00062 LXA SEVEN,1 SET XR1 = 7, AND PICKUP THE BDC/167
00070 0 56000 2 77777 LDQ -1,2 1ST WORD OF CURRENT FORMAT. BDC/168
                                     CCLPAR = ENTRY POINT WHEN A LPAREN IS MET IN FORMAT SCAN. BDC/169
00071 -0 63400 1 00137 CCLPAR SXD BX1,1 SAVE THE CURRENT CHARACTER COUNT, BDC/170
00072 -0 63400 2 00140 SXD BX2,2 SCAN POSITION, AND FORMAT WORD, BDC/171
00073 -0 60000 0 77752 STQ MQR FOR POSSIBLE REPETITION OF GROUP. BDC/172
00074 0 53400 4 77745 LXA INT,4 SET GROUP CONTROL COUNT FOR THE BDC/173
00075 -0 63400 4 00141 SXD BX4,4 INDICATED NUMBER OF REPETITIONS, BDC/174
00076 -0 63400 4 00274 SXD GROUPX,4 AND SAVE FOR POSSIBLE RESCAN. BDC/175
                                     SCAN = ENTRY POINT FOR CCCMMA, CCSCFP, CCIOUT, CCHOUT, RESCAN. BDC/176

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	00077	0	60000	0	77745	SCAN	STZ	INT	CLEAR INT WORKING STORAGE, AND	BDC/177
	00100	1	00006	0	00121	SIX	TXI	SCAN5,0,6	GO RESUME SCAN.	BDC/178
	00101	-0	53400	1	00100	SCAN1	LXD	SIX,1	RESET FORMAT CHARACTER COUNT, AND	BDC/179
	00102	0	56000	2	77777		LDQ	-1,2	PICKUP NEXT FORMAT WORD.	BDC/180
	00103	-0	76300	0	00006	SCAN2	LGL	6	EXAMINE NEXT CHARACTER,	BDC/181
	00104	0	34000	0	00570		CAS	BLANK	AND IF BLANK,	BDC/182
	00105	1	00000	0	00107	UNIT	TXI	SCAN3,0,**	THEN	BDC/183
D	00106	-1	00000	0	00121		TXI	SCAN5,0	GO EXAMINE NEXT CHARACTER.	BDC/184
	00107	0	34000	0	00601	SCAN3	CAS	L(9)	IF NOT BLANK, COMPARE WITH NINE,	BDC/185
D	00110	1	00000	0	00124		TXI	SCAN6,0	IF NON-NUMERIC, COMPARE CCTEST.	BDC/186
	00111	0	76100	0	00000		NOP		IF NUMERIC, THEN	BDC/187
	00112	0	60100	0	77746		STO	DIG	CONVERT	BDC/188
	00113	0	50000	0	77745		CLA	INT	SUCCESSIVE	BDC/189
	00114	0	76700	0	00002		ALS	2	BDC	BDC/190
	00115	0	40000	0	77745		ADD	INT	DIGITS	BDC/191
	00116	0	76700	0	00001		ALS	1	TO BINARY,	BDC/192
	00117	0	36100	0	77746		ACL	DIG	TO SET INT= SCALE FACTOR,	BDC/193
									SCAN4 = ENTRY POINT USED BY CCSCFM.	BDC/194
	00120	0	60100	0	77745	SCAN4	STO	INT	CURRENT FIELD OR GROUP CONTROL.	BDC/195
									SCAN5 = ENTRY POINT USED BY CCDCPT.	BDC/196
	00121	-0	75400	0	00311	SCAN5	PXD	XPRINT,0	CLEAR THE AC, AND UPDATE COUNT.	BDC/197
	00122	2	00001	1	00103		TIX	SCAN2,1,1	WHEN NO CHARACTERS REMAIN,	BDC/198
	00123	1	77777	2	00101		TXI	SCAN1,2,-1	ADJUST SCAN POSITION, AND REPEAT.	BDC/199
									SCAN6 = ENTRY POINT USED BY CCDCPT.	BDC/200
	00124	-0	53400	4	00126	SCAN6	LXD	NCC,4	WHEN A NON-NUMERIC IS MET,	BDC/201
	00125	0	34000	4	00567	SCAN7	CAS	CCTEST,4	SCAN LIST OF CONTROL CHARACTERS,	BDC/202
	00126	1	00014	0	00130	NCC	TXI	SCAN8,0,12	AND IF EQUALITY IS FOUND,	BDC/203
	00127	0	02000	4	00146		TRA	FRMTR,4	* TAKE THE INDICATED TRANSFER.	BDC/204
	00130	2	00001	4	00125	SCAN8	TIX	SCAN7,4,1	IF NOT FOUND IN CONTROL LIST, THEN	BDC/205
	00131	0	42000	1	00005		HPR	5,1	STOP. PRESS START TO CONTINUE.	BDC/2055
									END OF PROGRAM LINE.	BDC/210
									*****	BDC/211
									FRMTR / CONTROL TRANSFERS FOR FORMAT SCAN =	BDC/212
D	00132	1	00000	0	00146		TXI	CCEDMK,0	END OF FORMAT STATEMENT.	BDC/213
	00133	1	00000	0	00071	AX1	TXI	CCLPAR,0,**	BEGIN FORMAT OR GROUP.	BDC/214
	00134	1	00000	0	00152	AX2	TXI	CCCMMA,0,**	END FIELD.	BDC/215
	00135	1	00000	0	00157	AX4	TXI	CCSLSH,0,**	END LINE OR RECORD.	BDC/216
D	00136	1	00000	0	00162		TXI	CCSCFP,0	SCALE FACTOR PLUS.	BDC/217
	00137	1	00000	0	00165	BX1	TXI	CCSCFM,0,**	SCALE FACTOR MINUS.	BDC/218
	00140	1	00000	0	00167	BX2	TXI	CCRPAR,0,**	END FORMAT OR GROUP.	BDC/219
	00141	1	00000	0	00173	BX4	TXI	CCDCPT,0,**	ROUNDING OF OUTPUT NUMBER.	BDC/220
D	00142	1	00000	0	00212		TXI	CCIOU,0	DECIMAL OUTPUT.	BDC/221
	00143	1	00000	0	00217	CX1	TXI	CCHOUT,0,**	HOLLERITH FIELD OUTPUT.	BDC/222
	00144	1	00000	0	00243	CX2	TXI	CCFOU,0,**	FIXED POINT OUTPUT.	BDC/223
	00145	-1	00000	0	00254	CX4	TXI	CCEOUT,0,**	FLOATING POINT OUTPUT.	BDC/224
					00146	FRMTR	BSS	0	*****	BDC/225
									*****	BDC/226
									CCEDMK/ CALLS=FIELD,MAIN PROGRAM.	BDC/227
									CCEDMK = ENTRY POINT WHEN AN ENDMARK IS MET IN FORMAT SCAN.	BDC/2271
	00146	0	07400	4	00275	CCEDMK	TSX	FIELD,4	* GO PROCESS UNDER FIELD CONTROL.	BDC/2273
	00147	0	50000	0	00121		CLA	SCAN5	WHEN DONE, SET	BDC/2274
	00150	0	62100	0	00317		STA	CNVSW	CONVERSION SWITCH TO RESCAN, AND	BDC/2275







	00245	0	62200	0	00441		STD	CNV6	OUTPUT	BDC/331
	00246	0	62200	0	00435		STD	CLR	(WITHOUT EXPONENT).	BDC/332
	00247	0	50200	0	77750		CLS	PEX	SET EXP TO THE	BDC/333
	00250	0	60100	0	77742		STO	EXP	NEGATIVE OF SCALE FACTOR.	BDC/334
	00251	0	50000	0	00331		CLA	FAD	PICKUP FXD, AND	BDC/335
D	00252	1	00000	0	00213		TXI	SETAD,0	* GO SET CONVERSION SWITCH.	BDC/336
								END OF PROGRAM CCFOUT.		BDC/337
	00253	0	00001	0	77742	FXDW	PZE	CHAR,0,1	CONSTANT USED BY CCFOUT.	BDC/338
								*****		BDC/339
								CCEOUT/ USES=CCEIOUT.		BDC/340
								CCEOUT = ENTRY POINT WHEN AN E IS MET IN FORMAT SCAN.		BDC/341
	00254	0	50000	0	00262	CCEOUT	CLA	FLTW	SET CONVERSION ROUTINE	BDC/342
	00255	0	62100	0	00427		STA	CNV5	FOR FLOATING POINT	BDC/343
	00256	0	62200	0	00441		STD	CNV6	OUTPUT	BDC/344
	00257	0	62200	0	00435		STD	CLR	(WITH EXPONENT).	BDC/345
	00260	0	50000	0	00340		CLA	FLT1	PICKUP FLT, AND	BDC/346
D	00261	1	00000	0	00213		TXI	SETAD,0	* GO SET CONVERSION SWITCH.	BDC/347
								END OF PROGRAM CCEOUT.		BDC/348
	00262	0	00005	0	77736	FLTW	PZE	CHAR-4,0,5	CONSTANT USED BY CCEOUT.	BDC/349
								*****		BDC/350
								RESCAN/ CALLS=FILLW, USES=LINE(SCAN).		BDC/351
								RESCAN = ENTRY POINT USED BY PRINT.		BDC/352
	00263	-0	63400	4	00135	RESCAN	SXD	AX4,4	FOR RETURN FROM FORMAT SCAN.	BDC/353
	00264	-0	63400	1	00133		SXD	AX1,1	SAVE THE ORIGINAL C(XR1),	BDC/354
	00265	-0	63400	2	00134		SXD	AX2,2	SAVE THE ORIGINAL C(XR2), AND	BDC/355
	00266	0	07400	4	00515		TSX	FILLW,4	* GO OUTPUT RECORD.	BDC/356
	00267	-0	53400	4	00274		LXD	GROUPX,4	THEN PICKUP ORIGINAL GROUP COUNT TO	BDC/357
								GROUP = ENTRY POINT USED BY CCRPAR.		BDC/358
	00270	-0	63400	4	00141	GROUP	SXD	BX4,4	UPDATE GROUP CONTROL.	BDC/359
	00271	-0	53400	1	00137		LXD	BX1,1	RESET CHARACTER COUNT,	BDC/360
	00272	-0	53400	2	00140		LXD	BX2,2	RESET SCAN POSITION, AND	BDC/361
	00273	0	56000	0	77752		LDQ	MQR	PICKUP 1ST FORMAT WORD OF GROUP.	BDC/362
	00274	1	00000	0	00077	GROUPX	TXI	SCAN,0,**	* GO RESCAN THIS GROUP.	BDC/363
								END OF PROGRAM RESCAN.		BDC/364
								*****		BDC/365
								FIELD,4/ USES PRINT, CALLERS=LINE(SCAN),CCMMA,CCSLSH,CCRPAR.		BDC/366
								FIELD CONTROLS THE REPEATED OUTPUT OF THE CURRENT FIELD.		BDC/367
	00275	-0	63400	4	00145	FIELD	SXD	CX4,4	SAVE THE C(XR4) FOR RETURN.	BDC/368
	00276	-0	63400	1	00143		SXD	CX1,1	SAVE THE CHARACTER COUNT,	BDC/369
	00277	-0	63400	2	00144		SXD	CX2,2	THE SCAN POSITION, AND	BDC/370
	00300	-0	60000	0	77751		STQ	MQ	THE CURRENT FORMAT WORD.	BDC/371
	00301	-0	53400	1	00133		LXD	AX1,1	RESTORE THE ORIGINAL C(XR1),	BDC/372
	00302	-0	53400	2	00134		LXD	AX2,2	RESTORE THE ORIGINAL C(XR2), AND	BDC/373
	00303	0	53400	4	77745		LXA	INT,4	EXAMINE INT, AND	BDC/374
	00304	-3	00000	4	00307		TXL	DONE,4,0	IF NOT ZERO, THEN	BDC/375
	00305	-0	63400	4	00467		SXD	CLR2,4	SET COLUMN WIDTH OF EACH FIELD.	BDC/376
D	00306	1	00000	0	00513		TXI	LIST,0	* AND GO PROCESS FIELD.	BDC/377
								DONE = ENTRY POINT USED BY PRINT.		BDC/378
	00307	-0	53400	4	00145	DONE	LXD	CX4,4	WHEN DONE, RESTORE THE C(XR4), AND	BDC/379
	00310	0	02000	4	00001		TRA	1,4	* RETURN TO CALLER.	BDC/380
								END OF PROGRAM FIELD.		BDC/381

```

*****
PRINT,4/ USES=FIELD,LINE. CALLERS=(BDC),LINE(RESCAN).
PRINT DOES INTEGER, FIXED, AND FLOATING POINT CONVERSION.
XPRINT = EXIT FROM PRINT WHEN FORMAT IS EXHAUSTED.
00311 -0 63400 4 00317 XPRINT SXD CNVSW,4
00312 0 07400 4 00263 TSX RESCAN,4
00313 -0 53400 4 00317 LXD CNVSW,4
00314 0 50000 0 77747 CLA DATUM
PRINT = ENTRY POINT USED BY (BDC).
00315 -0 63400 4 00135 PRINT SXD AX,4
00316 0 60100 0 77747 STO DATUM
00317 1 00000 0 00000 CNVSW TXI **,0,**
FLT = ENTRY POINT FOR FLOATING POINT CONVERSION.
00320 0 10000 0 00433 FLT TZE CNVN
00321 0 76500 0 00033 LRS 27
00322 0 76000 0 00003 SSP
00323 0 40200 0 00575 SUB BASE
00324 0 76500 0 00043 LRS 35
00325 0 20000 0 00576 MPY LOG2
00326 0 60100 0 77742 STO EXP
00327 0 12000 0 00340 TPL FLT1
00330 0 40200 0 77750 SUB PEX
00331 0 73400 4 00370 FAD PAX FXD,4
00332 0 56000 0 77747 LDQ DATUM
00333 0 26000 4 00671 FMP TAB-1,4
00334 0 76000 0 00003 SSP
00335 0 53400 4 77750 LXA PEX,4
00336 0 40200 4 00672 SUB TAB,4
00337 1 00000 0 00344 TXI FLT4,0
00340 0 73400 4 00320 FLT1 PAX FLT,4
00341 0 50000 4 00672 CLA TAB,4
00342 -0 40000 0 77747 SBM DATUM
00343 0 40000 0 00574 ADD BIAS
00344 0 12000 0 00350 FLT4 TPL FLT2
00345 -0 50000 0 77742 CAL EXP
00346 0 40000 0 00577 ADD ONE
00347 0 60200 0 77742 SLW EXP
00350 -0 50000 0 00566 FLT2 CAL E
00351 0 60200 0 77736 SLW CHAR-4
00352 0 50000 0 77742 CLA EXP
00353 0 40200 0 77750 SUB PEX
00354 0 60100 0 77742 STO EXP
00355 -0 50000 0 00570 CAL BLANK
00356 0 56000 0 77742 LDQ EXP
00357 0 16200 0 00361 TOP FLT3
00360 -0 50000 0 00560 CAL MINUS
00361 0 60200 0 77737 FLT3 SLW CHAR-3
00362 -0 75400 0 00445 IAD PXD INTG,0
00363 0 22100 0 00571 DVP TEN
00364 -0 60000 0 77740 STQ CHAR-2
00365 0 60200 0 77741 SLW CHAR-1
00366 0 50000 0 77747 CLA DATUM
00367 1 00000 0 00371 TXI CNV,0
*****
SAVE THE C(XR4), AND
* GO RESCAN FORMAT. THEN RETURN,
AFTER GETTING FORMAT.
THEN PROCEED TO CONVERSION.
SAVE THE C(XR4) FOR RETURN TO LIST.
STORE CURRENT FIELD FOR CONVERSION.
* SWITCH TO FLT, FXD, INTG,OR RESCAN.
IF NON-ZERO, BEGIN E, F CONVERSION.
PLACE CHARACTERISTIC IN THE AC,
FRACTION IN THE MQ.
OBTAIN REQUIRED BASE IN THE MQ.
TEST PROBABLE
EXPONENT.
ADJUST EXPONENT.
OBTAIN E FOR
EXPONENT.
OBTAIN SIGN.
OBTAIN DIGITS
OF EXPONENT.
BDC/387
BDC/388
BDC/389
BDC/390
BDC/391
BDC/392
BDC/3921
BDC/3922
BDC/393
BDC/394
BDC/395
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BDC/417
BDC/418
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BDC/420
BDC/421
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BDC/424
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BDC/426
BDC/427
BDC/428
BDC/429
BDC/430
BDC/431
BDC/432
BDC/433
BDC/434
BDC/435
BDC/436
BDC/437
BDC/438

```

						FXD = ENTRY POINT FOR FIXED POINT CONVERSION.	BDC/439
	00370	0	10000	0	00433	TZE CNV	BDC/440
	00371	0	53400	4	77742	LXA EXP,4	BDC/441
	00372	-3	00000	4	00400	TXL CNV1,4,0	BDC/442
	00373	0	56000	0	77742	LDQ EXP	BDC/443
	00374	0	16200	0	00402	TQP CNV2	BDC/444
	00375	0	56000	0	77747	LDQ DATUM	BDC/445
	00376	0	26000	4	00672	FMP TAB,4	BDC/446
	00377	0	36100	0	00574	ACL BIAS	BDC/447
	00400	-0	30000	0	00572	UFA FIXN	BDC/448
D	00401	1	00000	0	00406	TXI CNV1,0	BDC/449
	00402	0	24100	4	00672	FDP TAB,4	BDC/450
	00403	-0	60000	0	77744	STQ FD	BDC/451
	00404	0	50000	0	77744	CLA FD	BDC/452
	00405	-0	30000	0	00573	UFA FIXQ	BDC/453
	00406	0	76300	0	00010	LLS 8	BDC/454
	00407	0	76700	0	00002	ALS 2	BDC/455
	00410	0	77100	0	00012	ARS 10	BDC/456
	00411	0	60100	0	77743	STO ND	BDC/457
	00412	-0	60000	0	77744	STQ FD	BDC/458
	00413	0	53400	4	77746	LXA DIG,4	BDC/459
	00414	0	50000	0	77744	CLA FD	BDC/460
	00415	0	36100	4	00613	ACL RND,4	BDC/461
	00416	0	76500	0	00043	LRS 35	BDC/462
	00417	0	40000	0	77743	ADD ND	BDC/463
	00420	0	60100	0	77743	STO ND	BDC/464
	00421	-3	00000	4	00440	TXL CNV3,4,0	BDC/465
	00422	-0	60000	0	77744	STQ FD	BDC/466
	00423	0	76700	0	00004	ALS 4	BDC/467
	00424	0	76300	0	00041	LLS 33	BDC/468
	00425	0	40000	0	77744	ADD FD	BDC/469
	00426	0	76500	0	00040	LRS 32	BDC/470
	00427	0	60200	4	00000	SLW **,4	BDC/471
	00430	2	00001	4	00422	TIX CNV4,4,1	BDC/472
	00431	0	50000	0	77743	CLA ND	BDC/473
D	00432	1	00000	0	00440	TXI CNV3,0	BDC/474
	00433	0	53400	4	77746	LXA DIG,4	BDC/475
	00434	0	56000	0	00570	LDQ BLANK	BDC/476
	00435	1	00000	4	00436	TXI CLR1,4,**	BDC/477
	00436	-0	60000	4	77742	STQ CHAR,4	BDC/478
	00437	2	00001	4	00436	TIX CLR1,4,1	BDC/479
	00440	0	53400	4	77746	LXA DIG,4	BDC/480
	00441	1	00000	4	00442	TXI CNV7,4,**	BDC/481
	00442	0	56000	0	00562	LDQ POINT	BDC/482
	00443	-0	60000	4	77742	STQ CHAR,4	BDC/483
D	00444	1	00000	0	00447	TXI CNV11,0	BDC/484
						INTG = ENTRY POINT FOR INTEGER CONVERSION.	BDC/485
	00445	-0	53400	4	00577	LXD ONE,4	BDC/486
	00446	0	77100	0	00022	ARS 18	BDC/487
	00447	0	76500	0	00043	LRS 35	BDC/488
	00450	0	22100	0	00571	DVP TEN	BDC/489
	00451	0	60200	4	77741	SLW CHAR-1,4	BDC/490
	00452	-0	60000	0	77743	STQ ND	BDC/491
	00453	0	50000	0	77743	CLA ND	BDC/492

FIX INTERNAL FLOATING BINARY NO.

STORE INTEGRAL PART.  
STORE FRACTIONAL PART.

SKIP FRACTIONAL.

ROUND NUMBER.

TEST FOR FRACTION WANTED.

CONVERT FRACTIONAL PART.

(FXD=CHAR, FLT=CHAR-4)

OBTAIN INTEGRAL PART.

(FXD=1, FLT=5)

(FXD=1, FLT=5)  
ESTABLISH POINT.

CONVERT INTEGRAL PART.

9.1

00454 0 10000 0 00457  
 00455 0 76000 0 00000  
 00456 1 00001 4 00450  
 00457 -0 50000 0 00570 CNV8  
 00460 0 16200 0 00462  
 00461 -0 50000 0 00560  
 00462 0 60200 4 77740 CNV12  
 00463 -0 50000 0 00570  
 00464 1 00003 4 00467  
 00465 0 60200 4 77742 CLR3  
 00466 1 00001 4 00467  
 00467 -3 00000 4 00465 CLR2  
 00470 -0 53400 4 00467  
 00471 -0 50000 0 77777  
 00472 0 14000 0 00473  
 00473 0 76700 0 00006 PACK2  
 00474 0 40000 4 77742  
 00475 -0 14000 0 00503  
 00476 0 60200 0 00000 PACK  
 00477 -0 50000 0 00476  
 00500 0 40000 0 00577  
 00501 0 62100 0 00476  
 00502 -0 50000 0 00577  
 00503 2 00001 4 00473 PACK3  
 00504 0 60200 0 77777  
 00505 -0 53400 4 00511  
 00506 2 00001 4 00512  
 00507 -0 63400 1 00133  
 00510 -0 63400 2 00134  
 00511 1 00000 0 00307 COUNT  
 00512 -0 63400 4 00511 MORE

TZE CNV8  
 CLM  
 TXI CNV9,4,1  
 CAL BLANK  
 TQP CNV12  
 CAL MINUS  
 SLW CHAR-2,4  
 CAL BLANK  
 TXI CLR2,4,3  
 SLW CHAR,4  
 TXI CLR2,4,1  
 TXL CLR3,4,\*\*  
 LXN CLR2,4  
 CAL WORD  
 TOV PACK2  
 ALS 6  
 ADD CHAR,4  
 TNO PACK3  
 SLW \*\*  
 CAL PACK  
 ADD ONE  
 STA PACK  
 CAL ONE  
 TIX PACK2,4,1  
 SLW WORD  
 LXN COUNT,4  
 TIX MORE,4,1  
 SXD AX1,1  
 SXD AX2,2  
 TXI DONE,0,\*\*  
 SXD COUNT,4  
 LXN AX4,4  
 TRA 1,4

PUT SIGN IN SPREAD BCD.

(COLUMN WIDTH OF THIS FIELD)

PACK RECORD INTO FULL WORDS.

(CURRENT ADDRESS IN REC BUFFER)

WHEN THIS FIELD HAS BEEN PROCESSED,  
 SAVE ANY REMAINDER, AND  
 COUNT NUMBER OF  
 WORDS CONVERTED.  
 IF FIELD COUNT HAS BEEN EXHAUSTED,  
 RESTORE THE C(XR1),C(XR2), AND  
 \* (FIELD REPEAT COUNT) EXIT TO FIELD.  
 OTHERWISE, GO GET MORE LIST.  
 LIST = ENTRY POINT USED BY LINE(SCAN),FIELD.  
 RESTORE THE C(XR4), AND  
 \* GO GET NEXT OUTPUT NUMBER.

END OF PROGRAM PRINT.  
 \* \* \* \* \*

FILLW(RESET),4/ CALLERS=(FIL),LINE,CCSLSH,RESCAN.  
 FILLW FILLS OUT LAST WORD,CONTROLS OUTPUT, AND RESETS.  
 SAVE THE C(XR4) FOR RETURN.  
 SET XR4 = REC + NO. WORDS ENTERED.  
 EXAMINE  
 WORD INDICATOR, AND  
 IF NOT ZERO, THEN  
 SET ADDRESS  
 FOR LAST WORD.  
 PICKUP WORD,  
 AND  
 FILL OUT  
 WITH BLANKS.  
 WHEN DONE,  
 STORE LAST WORD.  
 UPDATE, AND SET  
 XR4 AND THE DECREMENT OF FILL

00515 -0 63400 4 00054 FILLW  
 00516 0 53400 4 00476  
 00517 -0 50000 0 77777  
 00520 0 40200 0 00577  
 00521 0 10000 0 00533  
 00522 -0 50000 0 00476  
 00523 0 62100 0 00531  
 00524 -0 50000 0 77777  
 00525 0 14000 0 00526  
 00526 0 76700 0 00006 FILL4  
 00527 0 40000 0 00570  
 00530 -0 14000 0 00526  
 00531 0 60200 0 00000 FILL3  
 00532 1 00001 4 00533  
 00533 2 77753 4 00535 FILL1

SXD FILLX,4  
 LXA PACK,4  
 CAL WORD  
 SUB ONE  
 TZE FILL1  
 CAL PACK  
 STA FILL3  
 CAL WORD  
 TOV FILL4  
 ALS 6  
 ADD BLANK  
 TNO FILL4  
 SLW \*\*  
 TXI FILL1,4,1  
 TIX FILL2,4,REC

BDC/493  
 BDC/494  
 BDC/495  
 BDC/496  
 BDC/497  
 BDC/498  
 BDC/499  
 BDC/500  
 BDC/501  
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 BDC/546

00534	0	53400	4	00577	LXA	ONE,4	TO THE NUMBER OF WORDS ENTERED	BDC/547
00535	-0	63400	4	00542	FILL2	SXD FILL,4	IN REC BUFFER. THEN	BDC/548
00536	-0	53400	4	00105		LXD UNIT,4	SELECT CURRENT OUTPUT UNIT.	BDC/549
00537	3	77776	4	00541		TXH TYPE,4,-2	PUNCH OR PRINT OUTPUT.	BDC/550
00540	0	76600	4	00177		WRS 127,4	BCD TAPE OUTPUT.	BDC/551
00541	0	07400	4	00000	TYPE	TSX **,4	* GO TO INDICATED OUTPUT ROUTINE.	BDC/552
00542	0	00000	0	77753	FILL	PZE REC,**,	(DECREMENT = NO. WORDS ENTERED)	BDC/553
00543	-0	53400	4	00054		LXD FILLX,4	REENTRY FROM OUTPUT ROUTINE.	BDC/554
						RESET = ENTRY POINT USED BY LINE.		BDC/555
00544	-0	50000	0	00567	RESET	CAL BLANKS	RESET REC	BDC/556
00545	0	60200	0	77753	FILT	SLW REC	TO BLANKS,	BDC/557
00546	-0	50000	0	00542		CAL FILL	PACK ADDRESS	BDC/558
00547	0	62100	0	00476		STA PACK	TO REC, AND	BDC/559
00550	-0	50000	0	00577		CAL ONE	PICKUP 1 TO	BDC/560
00551	0	60200	0	77777		SLW WORD	SET WORD INDICATOR.	BDC/561
00552	0	02000	4	00001	TRA	1,4	* EXIT TO CALLER.	BDC/562
						END OF PROGRAM FILLW(RESET).		BDC/563
						*****		BDC/564
						CONSTANTS AND WORKING STORAGE USED BY FIL/BDC.		BDC/565
00553	+000000000077			ENDMK	OCT	77	CCTEST-12.	BDC/566
00554	000000000074	(			BCD	100000(	CCTEST-11.	BDC/567
00555	000000000073	COMMA			BCD	100000,	CCTEST-10.	BDC/568
00556	000000000061	SLASH			BCD	100000/	CCTEST-9.	BDC/569
00557	000000000047	P			BCD	100000P	CCTEST-8.	BDC/570
00560	000000000040	MINUS			BCD	100000-	CCTEST-7.	BDC/571
00561	000000000034	)			BCD	100000)	CCTEST-6.	BDC/572
00562	000000000033	POINT			BCD	100000.	CCTEST-5.	BDC/573
00563	000000000031	I			BCD	100000I	CCTEST-4.	BDC/574
00564	000000000030	H			BCD	100000H	CCTEST-3.	BDC/575
00565	000000000026	F			BCD	100000F	CCTEST-2.	BDC/576
00566	000000000025	E			BCD	100000E	CCTEST-1.	BDC/577
		00567		CCTEST	BSS	0	INDEXING ADDRESS FOR ABOVE LIST.	BDC/578
00567	606060606060	BLANKS			BCD	1	CONSTANT USED BY FIL/BDC.	BDC/579
00570	000000000060	BLANK			BCD	100000	CONSTANT USED BY FIL/BDC.	BDC/580
00571	+000000000012	TEN			DEC	10	CONSTANT USED BY FIL/BDC.	BDC/581
00572	+233000000000	FIXN			DEC	155B8	CONSTANT USED BY FIL/BDC.	BDC/582
00573	+266000000000	FIXQ			DEC	182B8	CONSTANT USED BY FIL/BDC.	BDC/583
00574	+033000000000	BIAS			DEC	27B8	CONSTANT USED BY FIL/BDC.	BDC/584
00575	+000000000200	BASE			DEC	128	CONSTANT USED BY FIL/BDC.	BDC/585
00576	+115040462343	LOG2			DEC	.301029957B	CONSTANT USED BY FIL/BDC.	BDC/586
00577	+000000000001	ONE			DEC	1	CONSTANT USED BY FIL/BDC.	BDC/587
00600	0 0000 0 00002	TWO			PZE	2	CONSTANT USED BY FIL/BDC.	BDC/5875
00601	0 0000 0 00011	L(9)			PZE	9	CONSTANT USED BY FIL/BDC.	BDC/5876
00602	+000000000021				DEC	.5BE-9	09-TABLE USED BY FIL/BDC.	BDC/588
00603	+0000000000253				DEC	.5BE-8	08-TABLE USED BY FIL/BDC.	BDC/589
00604	+000000003265				DEC	.5BE-7	07-TABLE USED BY FIL/BDC.	BDC/590
00605	+0000000041433				DEC	.5BE-6	06-TABLE USED BY FIL/BDC.	BDC/591
00606	+000000517426				DEC	.5BE-5	05-TABLE USED BY FIL/BDC.	BDC/592
00607	+000006433342				DEC	.5BE-4	04-TABLE USED BY FIL/BDC.	BDC/593
00610	+000101422335				DEC	.5BE-3	03-TABLE USED BY FIL/BDC.	BDC/594
00611	+001217270243				DEC	.5BE-2	02-TABLE USED BY FIL/BDC.	BDC/595
00612	+014631463146				DEC	.5BE-1	01-TABLE USED BY FIL/BDC.	BDC/596
00613	+200000000000	RND			DEC	.5B	00-TABLE USED BY FIL/BDC.	BDC/597



77747	DATUM	BSS	1	VARIABLE USED BY FIL/BDC.	BDC/652
77750	PEX	BSS	1	VARIABLE USED BY FIL/BDC.	BDC/653
77751	MQ	BSS	1	VARIABLE USED BY FIL/BDC.	BDC/654
77752	MQR	BSS	1	VARIABLE USED BY FIL/BDC.	BDC/655
77753	REC	BSS	20	VARIABLE USED BY FIL/BDC.	BDC/656
77777	WORD	BSS	1	VARIABLE USED BY FIL/BDC.	BDC/657
				END OF CONSTANTS AND WORKING STORAGE USED BY FIL/BDC.	BDC/658
				*****	BDC/659
00000		END			BDC/660



1  
1

ABS

CONTROL CARD FOR SCH.

00000 0 00000 0 00132  
 00001 0 00000 0 77701  
 00002 746223303460  
 00003 0 00000 0 00000

ORG 0  
 PZE COL1+1  
 PZE COMMON  
 BCD 1(SCH)  
 PZE

END OF SCH CONTROL CARD.

00000 -0 63400 1 00104  
 00001 -0 63400 2 00112  
 00002 -0 63400 4 00130  
 00003 -0 50000 0 00005  
 00004 0 60200 0 00000  
 00005 -3 00000 0 00006  
 00006 -0 53400 4 00130  
 00007 0 50000 4 00001  
 00010 0 77100 0 00022  
 00011 0 40000 4 00001  
 00012 -0 73400 4 00000  
 00013 -0 63400 4 00005  
 00014 0 62100 0 00021  
 00015 0 62100 0 00043  
 00016 0 76600 0 00341  
 00017 0 50000 0 00127  
 00020 -0 53400 4 00056  
 00021 0 34000 4 00000  
 00022 1 77777 4 00025  
 00023 1 00001 4 00021  
 00024 1 77777 4 00025  
 00025 -0 63400 4 00062  
 00026 -0 63400 4 00074  
 00027 -0 63400 4 00031  
 00030 -0 53400 4 00005  
 00031 -2 00000 4 00033  
 00032 -0 53400 4 00005  
 00033 0 53400 2 00035  
 00034 -0 53400 1 00077  
 00035 -0 75400 0 00000  
 00036 0 60200 1 77742  
 00037 0 60200 1 77722  
 00040 2 00001 1 00036  
 00041 -0 50000 0 00131  
 00042 0 60200 0 77701  
 00043 0 56000 4 00000  
 00044 -0 63400 4 00116  
 00045 0 53400 4 00047  
 00046 -0 75400 0 00014  
 00047 -0 76900 0 00006  
 00050 0 73400 1 00000  
 00051 -0 50000 0 77701  
 00052 0 77100 4 00006  
 00053 2 00020 1 00077

00000 COMMON ORG 0  
 77701 SYN -63  
 FIRST SXD X1,1  
 SXD X2,2  
 SXD X4,4  
 CAL PR6  
 SLW 0  
 PR6 TXL START  
 START LXD X4,4  
 CLA 1,4  
 ARS 18  
 ADD 1,4  
 (SCH) PDX FIRST,4  
 SXD PR6,4  
 STA PR2  
 STA CI9  
 WPU  
 CLA BLNKS  
 LXD CI4,4  
 PR2 CAS 0,4  
 TXI PR1,4,-1  
 TXI PR2,4,1  
 TXI PR1,4,-1  
 PR1 SXD CI6,4  
 SXD CI8,4  
 SXD PR8,4  
 LXD PR6,4  
 PR8 TNX PR5,4  
 PR3 LXD PR6,4  
 PR5 LXA PR7,2  
 LXD YZ1,1  
 PR7 PXD  
 PR4 SLW LT,1  
 SLW RT,1  
 TIX PR4,1,1  
 CIR CAL COL1  
 CI2 SLW COL  
 CI9 LDQ 0,4  
 SXD OZ2,4  
 LXA Q6,4  
 CI1 PXD 12  
 Q6 LGL 6  
 PAX 0,1  
 CAL COL  
 ARS 6,4  
 TIX YZ1,1,16

OBTAIN STARTING LOCATION OF  
 BUFFER AREA FOR LINE IMAGE  
 IN BCD  
 SAVE LOCATION  
 X  
 SUPPLY ADDRESS  
 X

FIND LAST NON-BLANK  
 GROUP  
 X

X  
 STORE END TEST  
 X

INITIALIZE GROUP COUNT  
 INITIALIZE LEFT SETUP  
 CLEAR CARD IMAGE

X  
 INITIALIZE COLUMN INDICATOR  
 X  
 OBTAIN GROUP  
 STORE GROUP COUNT  
 SET CHARACTER COUNT

X  
 POSITION COLUMN INDICATOR  
 X  
 TEST FOR DIGIT

SCH/C01  
 SCH/C02  
 SCH/C03  
 SCH/C04  
 SCH/C05  
 SCH/C06  
 SCH/C07  
 SCH 0001  
 SCH2P11  
 SCH 0002  
 SCH 0003  
 SCH 0004  
 SCH 0005  
 SCH 0006  
 SCH 0007  
 SCH 0008  
 SCH 0009  
 SCH 0010  
 SCH 0011  
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 SCH 0042  
 SCH 0043  
 SCH 0044  
 SCH 0045

	00054	3	00017	1	00102		TXH	YZ2,1,15	TEST FOR Y-ZONE	SCH	0046
	00055	-0	60200	3	77737	CI5	ORS	D,3	STORE DIGIT	SCH	0047
	00056	2	00001	4	00046	CI4	TIX	CI1,4,1	COUNT CHARACTERS	SCH	0048
	00057	0	77100	0	00001	CI3	ARS	1	SHIFT AND TEST COLUMN	SCH	0049
	00060	-0	53400	4	00116		LXD	OZ2,4	RESTORE GROUP COUNT	SCH	0050
	00061	1	77777	4	00062		TXI	CI6,4,-1	COUNT GROUPS	SCH	0051
D	00062	-3	00000	4	00064	CI6	TXL	CI7,4	TEST FOR LAST NON-BLANK GR.	SCH	0052
	00063	-0	10000	0	00042		TNZ	CI2	TEST FOR END OF ROW	SCH	0053
	00064	-0	50000	2	77724	CI7	CAL	8,3,2	FORM TRUE 8,4	SCH	0054
	00065	-0	60200	2	77727		ORS	D-8,2	AND 3 ROWS AND	SCH	0055
	00066	-0	60200	2	77734		ORS	D-3,2	MOVE8,4 AND 8,3	SCH	0056
	00067	0	60200	2	77725		SLW	8,2,2	ROWS	SCH	0057
	00070	-0	50000	2	77723		CAL	8,4,2	FORM TRUE8,4	SCH	0058
	00071	-0	60200	2	77727		ORS	D-8,2		SCH	0059
	00072	-0	60200	2	77733		ORS	D-4,2		SCH	0060
	00073	0	60200	2	77724		SLW	8,3,2		SCH	0061
D	00074	-3	00000	4	00117	CI8	TXL	WP,4	X	SCH	0062
	00075	3	00017	2	00117		TXH	WP,2,15	TEST FOR END	SCH	0063
	00076	1	00020	2	00041		TXI	CIR,2,16	TEST FOR RIGHT HALF	SCH	0064
	00077	2	00020	1	00105	YZ1	TIX	XZ1,1,16	INITIALIZE RIGHT HALF	SCH	0065
	00100	3	00017	1	00110		TXH	XZ2,1,15	TEST FOR 16/CH/32	SCH	0066
	00101	-0	60200	3	77737		ORS	D,3	TEST FOR X-ZONE	SCH	0067
	00102	-0	60200	2	77741	YZ2	ORS	Y,2	STORE DIGIT	SCH	0068
	00103	2	00001	4	00046		TIX	CI1,4,1	STORE Y-ZONE	SCH	0069
TD	00104	-3	00000	0	00057	X1	TXL	CI3	COUNT CHARACTERS	SCH	0070
	00105	2	00020	1	00113	XZ1	TIX	OZ1,1,16	OBTAIN NEXT GROUP	SCH	0071
	00106	3	00017	1	00056		TXH	CI4,1,15	TEST FOR 32/CH/48	SCH	0072
	00107	-0	60200	3	77737		ORS	D,3	TEST FOR BLANK	SCH	0073
	00110	-0	60200	2	77740	XZ2	ORS	X,2	STORE DIGIT	SCH	0074
	00111	2	00001	4	00046		TIX	CI1,4,1	STORE X-ZONE	SCH	0075
TD	00112	-3	00000	0	00057	X2	TXL	CI3	COUNT CHARACTERS	SCH	0076
	00113	-0	60200	2	77737	OZ1	ORS	Z,2	OBTAIN NEXT GROUP	SCH	0077
	00114	-0	60200	3	77737		ORS	D,3	STORE O-ZONE	SCH	0078
	00115	2	00001	4	00046		TIX	CI1,4,1	COUNT CHARACTERS	SCH	0079
TD	00116	-3	00000	0	00057	OZ2	TXL	CI3		SCH	0080
	00117	0	53400	1	00046	WP	LXA	CI1,1		SCH	0081
	00120	0	70000	1	77742	WP3	CPY	LT,1	COPY CARD IMAGE	SCH	0082
	00121	0	70000	1	77722		CPY	RT,1		SCH	0083
	00122	2	00001	1	00120		TIX	WP3,1,1		SCH	0084
	00123	-0	53400	1	00104		LXD	X1,1		SCH	0085
	00124	-0	53400	2	00112		LXD	X2,2		SCH	0086
	00125	-0	53400	4	00130	WT2	LXD	X4,4		SCH	0087
	00126	0	02000	4	00002		TRA	2,4		SCH	0088
	00127	606060606060	6060			BLNKS	BCD	1		SCH	0089
	00130	0	00000	0	00001	X4	HTR	1		SCH	0090
	00131	-0	00000	0	00000	COL1	MZE			SCH	0091
					77701		ORG	-63		SCH	0092
					77701	COL	BSS	1		SCH	0093
					77722	RT	BES	16		SCH	0094
					77722	8,5	BSS	1		SCH	0095
					77723	8,4	BSS	1		SCH	0096
					77724	8,3	BSS	1		SCH	0097
					77725	8,2	BSS	1		SCH	0098
					77737	D	BES	9		SCH	0099

77737 Z BSS 1  
77740 X BSS 1  
77741 Y BSS 1  
77742 LT SYN Y+1  
00000 END

SCH 0100  
SCH 0101  
SCH 0102  
SCH 0103  
SCH 0104

A



	00053	1	77777	4	00056		TXI PR1,4,-1	X	SPH 0047
	00054	1	00001	4	00052		TXI PR2,4,-1	X	SPH 0048
	00055	1	77777	4	00056		TXI PR1,4,-1	X	SPH 0049
	00056	-0	63400	4	00116	PR1	SXD C16,4	STORE END TEST	SPH 0050
	00057	-0	63400	4	00130		SXD C18,4	X	SPH 0051
	00060	-0	63400	4	00063		SXD PR8,4	X	SPH 0052
	00061	-0	63400	4	00213		SXD WP4,4	X	SPH 0053
	00062	-0	53400	4	00026		LXD PR6,4	X	SPH 0054
D	00063	-2	00000	4	00067	PR8	TNX PR5,4		SPH 0055
	00064	-3	00014	4	00066		TXL PR3,4,12		SPH 0056
	00065	0	76000	0	00370		SPR 8	FIRST CYCLE	SPH 0057
	00066	-0	53400	4	00026	PR3	LXD PR6,4	INITIALIZE GROUP COUNT	SPH 0058
	00067	0	53400	2	00071	PR5	LXA PR7,2	INITIALIZE LEFT SETUP	SPH 0059
	00070	-0	53400	1	00133		LXD YZ1,1	CLEAR CARD IMAGE	SPH 0060
T	00071	-0	75400	0	00000	PR7	PXD	X	SPH 0061
	00072	0	60200	1	77714	PR4	SLW LT,1	X	SPH 0062
	00073	0	60200	1	77674		SLW RT,1	X	SPH 0063
	00074	2	00001	1	00072		TIX PR4,1,1	X	SPH 0064
	00075	-0	50000	0	00235	CIR	CAL COL1	INITIALIZE COLUMN INDICATOR	SPH 0065
	00076	0	60200	0	77653	C12	SLW COL	X	SPH 0066
	00077	0	56000	4	00000	C19	LDQ 0,4	OBTAIN GROUP	SPH 0067
	00100	-0	63400	4	00030		SXD OZ2,4	STORE GROUP COUNT	SPH 0068
	00101	0	53400	4	00103		LXA 06,4	SET CHARACTER COUNT	SPH 0069
T	00102	-0	75400	0	00003	C11	PXD LMT		SPH 0070
	00103	-0	76300	0	00006	Q6	LGL 6		SPH 0071
	00104	0	73400	1	00000	1ST	PAX 0,1	POSITION COLUMN INDICATOR	SPH 0072
	00105	-0	50000	0	77653		CAL COL	X	SPH 0073
	00106	0	77100	4	00006		ARS 6,4	TEST FOR DIGIT	SPH 0074
	00107	2	00020	1	00133		TIX YZ1,1,16	TEST FOR Y-ZONE	SPH 0075
	00110	3	00017	1	00136		TXH YZ2,1,15	TEST FOR Y-ZONE	SPH 0076
	00111	-0	60200	3	77711	C15	ORS D,3	STORE DIGIT	SPH 0077
	00112	2	00001	4	00102	C14	TIX C11,4,1	COUNT CHARACTERS	SPH 0078
	00113	0	77100	0	00001	C13	ARS 1	SHIFT AND TEST COLUMN	SPH 0079
	00114	-0	53400	4	00030		LXD OZ2,4	RESTORE GROUP COUNT	SPH 0080
	00115	1	77777	4	00116		TXI C16,4,-1	COUNT GROUPS	SPH 0081
D	00116	-3	00000	4	00120	C16	TXL C17,4	TEST FOR LAST NON-BLANK GROUP	SPH 0082
	00117	-0	10000	0	00076		TNZ C12	TEST FOR END OF ROW	SPH 0083
	00120	-0	50000	2	77676	C17	CAL 8,3,2	FORM TRUE 8,4	SPH 0084
	00121	-0	60200	2	77701		ORS D-8,2	AND 3 ROWS AND	SPH 0085
	00122	-0	60200	2	77706		ORS D-3,2	MOVE 8,4 AND 8,3	SPH 0086
	00123	0	60200	2	77677		SLW 8,2,2	ROWS	SPH 0087
	00124	-0	50000	2	77675		CAL 8,4,2	FORM TRUE 8,4	SPH 0088
	00125	-0	60200	2	77701		ORS D-8,2	X	SPH 0089
	00126	-0	60200	2	77705		ORS D-4,2	X	SPH 0090
	00127	0	60200	2	77676		SLW 8,3,2	X	SPH 0091
D	00130	-3	00000	4	00153	C18	TXL WP,4	TEST FOR END	SPH 0092
	00131	3	00017	2	00153		TXH WP,2,15	TEST FOR RIGHT HALF	SPH 0093
	00132	1	00020	2	00075		TXI CIR,2,16	INITIALIZE RIGHT HALF	SPH 0094
	00133	2	00020	1	00141	YZ1	TIX XZ1,1,16	TEST FOR 16/CH/32	SPH 0095
	00134	3	00017	1	00144		TXH XZ2,1,15	TEST FOR X-ZONE	SPH 0096
	00135	-0	60200	3	77711		ORS D,3	STORE DIGIT	SPH 0097
	00136	-0	60200	2	77713	YZ2	ORS Y,2	STORE Y-ZONE	SPH 0098
	00137	2	00001	4	00102		TIX C11,4,1	COUNT CHARACTERS	SPH 0099
TD	00140	-3	00000	0	00113	X1	TXL C13	OBTAIN NEXT GROUP	SPH 0100

	00141	2	00020	1	00147	XZ1	TIX OZ1,1,16	TEST FOR 32/CH/48	SPH 0101
	00142	3	00017	1	00112		TXH CI4,1,15	TEST FOR BLANK	SPH 0102
	00143	-0	60200	3	77711		ORS D,3	STORE DIGIT	SPH 0103
	00144	-0	60200	2	77712	XZ2	ORS X,2	STORE X-ZONE	SPH 0104
	00145	2	00000	4	00102		TIX CI1,4,1	COUNT CHARACTERS	SPH 0105
TD	00146	-3	00000	0	00113	X2	TXL CI3	OBTAIN NEXT GROUP	SPH 0106
	00147	-0	60200	2	77711	OZ1	ORS Z,2	STORE O-ZONE	SPH 0107
	00150	-0	60200	3	77711		ORS D,3	STORE DIGIT	SPH 0108
	00151	2	00000	4	00102		TIX CI1,4,1	COUNT CHARACTERS	SPH 0109
TD	00152	-3	00000	0	00113		TXL CI3		SPH 0110
	00153	-0	53400	1	00025	WP	LXD Z2,1	COPY LOOP	SPH 0111
	00154	0	70000	1	77700	C	CPY LT-12,1	CARD IMAGE COPIES	SPH 0112
	00155	0	70000	1	77660		CPY RT-12,1	X	SPH 0113
	00156	1	77777	1	00157		TXI T2,1,-1		SPH 0114
	00157	3	77767	1	00154	T2	TXH C,1,-9	TEST FOR ECHO	SPH 0115
	00160	0	70000	1	77703		CPY LECHO-9,1	ECHO COPIES	SPH 0116
	00161	0	70000	1	77716		CPY RECHO-9,1	X	SPH 0117
	00162	3	77764	1	00154		TXH C,1,-12	TEST FOR END OF CARD IMAGE	SPH 0118
	00163	3	77755	1	00156		TXH T2-1,1,-19	TEST FOR END OF ECHOS	SPH 0119
	00164	0	53400	1	00217		LXA L2,1		SPH 0120
	00165	-0	50000	1	77716	CL	CAL LECHO+2,1	8.3 AND 8.4 ECHOS INTO	SPH 0121
	00166	-0	60200	0	77717		ORS LECHO+3	8 AND 3 AND 4 ECHO ROWS	SPH 0122
	00167	-0	60200	1	77725		ORS LECHO+9,1	X	SPH 0123
	00170	-0	50000	1	77731		CAL RECHO+2,1	X	SPH 0124
	00171	-0	60200	0	77732		ORS RECHO+3	X	SPH 0125
	00172	-0	60200	1	77740		ORS RECHO+9,1	X	SPH 0126
	00173	2	00001	1	00165		TIX CL,1,1	X	SPH 0127
	00174	0	53400	1	00012		LXA L11,1		SPH 0128
	00175	-0	50000	1	77711	T9	CAL 8.4L+11,1	LEFT ECHO CHECK	SPH 0129
	00176	0	76000	0	00006		COM	X	SPH 0130
	00177	0	36100	1	77727		ACL LECHO+11,1	X	SPH 0131
	00200	0	76000	0	00006		COM	X	SPH 0132
	00201	-0	10000	0	00207		TNZ ERRL	LEFT ECHO CHECK ERROR	SPH 0133
	00202	-0	50000	1	77671	R	CAL 8.4R+11,1	RIGHT ECHO CHECK	SPH 0134
	00203	0	76000	0	00006		COM	X	SPH 0135
	00204	0	36100	1	77742		ACL RECHO+11,1	X	SPH 0136
	00205	0	76000	0	00006		COM	X	SPH 0137
	00206	0	10000	0	00212		TZE ERR+1	RIGHT ECHO CHECK ERROR	SPH 0138
	00207	0	56000	0	00226	ERRL	LDQ RES	SET UP FOR SECOND ATTEMPT TO PRINT LINE	SPH 0139
	00210	-0	60000	0	00000		STQ 0	X	SPH 0140
	00211	0	42000	4	00000	ERR	HPR 0,4	ECHO CHECK ERROR. RESTART OR CONTINUE	SPH 0141
	00212	2	00001	1	00175		TIX T9,1,1	CONTINUE	SPH 0142
D	00213	3	00000	4	00227	WP4	TXH WP5,4	TEST FOR SECOND CYCLE	SPH 0143
	00214	-0	53400	1	00140		LXD X1,1	NO, RELOAD INDEX REGISTERS AND RETURN	SPH 0144
	00215	-0	53400	2	00146		LXD X2,2	X	SPH 0145
	00216	-0	53400	4	00031	WT2	LXD X4,4	X	SPH 0146
	00217	0	02000	4	00002	L2	TRA 2,4	X	SPH 0147
	00220	0	76000	0	00364	SP4	SPR 4	DOUBLE SPACE	SPH 0148
TD	00221	-3	00000	0	00050		TXL RPR+2		SPH 0149
TD	00222	-3	00000	0	00223	DEL	TXL FIX		SPH 0150
	00223	-0	50000	0	00034	FIX	CAL MK		SPH 0151
	00224	0	60200	0	00104		SLW 1ST		SPH 0152
	00225	2	00001	4	00102		TIX CI1,4,1		SPH 0153
	00226	0	02000	0	00000	RES	TRA RPT		SPH 0154

911

00227 0 76200 0 00361 WP5 RPR  
 00230 0 76000 0 00371 SPR 9  
 00231 -3 00014 0 00067 WP2 TXL PR5,0,12  
 00232 606060606060 BLNKS BCD 1  
 00233 +000000000020 YZONE OCT 20  
 00234 +000000000060 BNK OCT 60  
 00235 -0 00000 0 00000 COL1 MZE  
 77653 ORG COMMON  
 77653 COL BSS 1  
 77674 RT BES 16  
 77674 8.5 BSS 1  
 77675 8.4 BSS 1  
 77676 8.3 BSS 1  
 77677 8.2 BSS 1  
 77711 D BES 9  
 77711 Z BSS 1  
 77712 X BSS 1  
 77713 Y BSS 1  
 77714 LT SYN Y+1  
 77676 8.4L SYN LT-14  
 77656 8.4R SYN RT-14  
 77714 LECHO BSS 11  
 77727 RECHO BSS 11  
 00102 (SPH) SYN CI1  
 00000 END

SELECT PRINTER AGAIN  
 SECOND CYCLE  
 CONVERT REST OF LINE

SPH 0155  
 SPH 0156  
 SPH 0157  
 SPH 0158  
 SPH 0159  
 SPH 0160  
 SPH 0161  
 SPH 0162  
 SPH 0163  
 SPH 0164  
 SPH 0165  
 SPH 0166  
 SPH 0167  
 SPH 0168  
 SPH 0169  
 SPH 0170  
 SPH 0171  
 SPH 0172  
 SPH 0173  
 SPH 0174  
 SPH 0175  
 SPH 0176  
 SPH 0177  
 SPH 0178  
 SPH 0179

A

1  
1

ABS

00000	0	00000	0	00014	00000
00001	0	00000	0	00000	00000
00002	7	46263303460			
00003	0	00000	0	00000	
00000	0	50000	4	00001	00000
00001	0	77100	0	00022	
00002	0	40000	4	00001	
00003	-0	63400	4	00013	
00004	-0	73400	4	00000	
00005	0	62100	0	00006	
00006	0	70000	4	00000	
00007	2	00001	4	00006	
00010	0	76600	0	00333	
00011	-0	53400	4	00013	
00012	0	02000	4	00002	
00013	0	00000	0	00001	00000

A

## CONTROL CARD FOR STH.

ORG 0  
PZE X4+1  
PZE  
BCD 1(STH)  
PZE

## END OF STH CONTROL CARD.

ORG 0  
WOT CLA 1,4  
ARS 18  
ADD 1,4  
SXD X4,4  
(STH) PDX WOT,4  
STA WT1  
WT1 CPY 0,4  
TIX WT1,4,1  
IOD  
LXD X4,4  
TRA 2,4  
X4 HTR 1  
END

CALCULATE ADDRESS  
FOR COPY INSTRUCTION  
X  
SAVE INDEX REGISTER  
COUNT OF WORDS PER RECORD TO IR4  
SUPPLY ADDRESS TO CPY INSTRUCTION  
COPY RECORD TO OUTPUT TAPE  
X  
INPUT OUTPUT DELAY  
RESTORE IR4, RETURN TO  
MAIN PROGRAM  
STORAGE FOR INDEX REGISTER 4

STH/C01  
STH/C02  
STH/C03  
STH/C04  
STH/C05  
STH/C06  
STH/C07  
STHF2001  
STHF2002  
STHF2003  
STHF2004  
STHF2005  
STHF2006  
STHF2007  
STHF2008  
STHF2009  
STHF2010  
STHF2011  
STHF2012  
STHF2013  
STHF2014



1  
1  
A

ABS

```

00000 0 00000 0 00120
00001 0 00000 0 00000
00002 744325653460
00003 0 00000 0 00000
00004 745163453460
00005 0 00000 0 00041

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CONTROL CARD FOR LRT.

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ORG
PZE BT+1
PZE
BCD 1(LEV)
PZE (LEV)
BCD 1(RTN)
PZE (RTN)
END OF LRT CONTROL CARD.

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LRT/C00

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LRT/C01
LRT/C02
LRT/C03
LRT/C04
LRT/C05
LRT/C06
LRT/C07
LRT/C08
LRT/C09

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A

00000

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00000 0 40000 0 00114 (LEV)
00001 0 62100 0 00040
00002 -0 76000 0 00012
00003 0 76100 0 00000
00004 0 62100 0 00075
00005 -0 63400 1 00017
00006 -0 63400 2 00046
00007 -0 63400 4 00111
00010 -0 50000 0 00000
00011 0 60200 0 00112
00012 -0 50000 0 00001
00013 0 60200 0 00113
00014 -0 50000 0 00020
00015 0 60200 0 00001
00016 0 50000 0 00023
00017 1 00000 0 00022 ERX1
00020 0 02100 0 00021 TON
00021 0 76000 0 00002 CHS
00022 0 60100 0 00065 SET
00023 -0 76000 0 00007 LTM
00024 0 50000 0 00064
00025 0 14000 0 00027 TOV
00026 0 50000 0 00025
00027 0 62200 0 00060 SETAC
00030 0 50000 0 00064
00031 0 16100 0 00033 TQO
00032 0 50000 0 00031
00033 0 62200 0 00061 SETMQ
00034 0 50000 0 00035
00035 0 76000 0 00012 DCT
00036 0 50000 0 00064
00037 0 60100 0 00063
00040 0 02100 0 00000 BAK

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ORG
(LEV)/ CALLER=MAIN PROGRAM.
(LEV) SAVES ALL INDICATORS BEFORE I/O TRANSMISSION.
ADD L(2) SET UP FOR RETURN
STA BAK TO CONTROL LOOP.
RTT MAKE CERTAIN REDUNDANCY
NOP INDICATOR IS TURNED OFF.
STA RT SAVE FOR 2ND TRY, IF NECESSARY=
SXD ERX1,1 STARTING LOCATION, AND THE
SXD ERX2,2 CONTENTS OF XR1, XR2,
SXD ERX4,4 AND XR4.
CAL 0 ALSO SAVE THE
SLW C(0) CONTENTS OF LOCATION 0,
CAL 1 AND THE
SLW C(1) CONTENTS OF LOCATION 1.
CAL TON SET UP FOR
SLW 1 PREVIOUS TRAP
CLA LTM MODE CONDITION.
TXI SET,0,** IF IN TRAPPING MODE, THEN
TTR CHS INSTRUCTION EXECUTED IN LOCATION 1.
CHS CHANGE LTM TO ETM, AND
STO RTM SET RTM TO RESTORE TRAPPING COND.
LTM LEAVE TRAPPING MODE, AND
CLA NOP THEN
TOV SETAC RETAIN PREVIOUS
CLA TOV AC OVERFLOW CONDITION
STD AVR IN AVR.
CLA NOP THEN
TQO SETMQ RETAIN PREVIOUS
CLA TQO MQ OVERFLOW CONDITION
STD QVR IN QVR.
CLA DCT THEN
DCT RETAIN PREVIOUS
CLA NOP DIVIDE CHECK CONDITION
STO DCR IN DCR.
TTR ** * EXIT TO MAIN PROGRAM.
END OF PROGRAM (LEV).

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LRT/C
LRT/001
LRT/002
LRT/003
LRT/004
LRT/005
LRT/006
LRT/007
LRT/008
LRT/009
LRT/010
LRT/011
LRT/012
LRT/013
LRT/014
LRT/015
LRT/016
LRT/017
LRT/018
LRT/019
LRT/020
LRT/021
LRT/022
LRT/023
LRT/024
LRT/025
LRT/026
LRT/027
LRT/028
LRT/029
LRT/030
LRT/031
LRT/032
LRT/033
LRT/034
LRT/035
LRT/036
LRT/037
LRT/038
LRT/039
LRT/040
LRT/041

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(RTN)/ CALLERS=MAIN PROGRAM.(FIL).
(RTN) RESTORES ALL INDICATORS AFTER I/O TRANSMISSION.
LTM LEAVE TRAPPING MODE, AND

```

00041 -0 76000 0 00007 (RTN)

00042	0	40000	0	00114	ADD L(2)	SET UP FOR RETURN	LRT/042
00043	0	62100	0	00066	STA RET	TO CONTROL LOOP.	LRT/043
00044	0	76600	0	00333	IOD	INPUT-OUTPUT DELAY.	LRT/044
00045	-0	76000	0	00012	RTT	IF BINARY TAPE READING WAS NOT	LRT/045
00046	1	00000	0	00067	TXI TRY,0,**	CORRECT, THEN TRY AGAIN.	LRT/046
00047	-0	50000	0	00071	CAL TXLOP	OTHERWISE, CONTINUE.	LRT/047
00050	0	63000	0	00067	STP TRY	SET TRY TO TRANSFER CASE.	LRT/048
					RES = ENTRY POINT USED BY (FIL).		LRT/049
00051	-0	50000	0	00112	CAL C(0)	RESTORE	LRT/050
00052	0	60200	0	00000	SLW 0	THE C(0).	LRT/051
00053	-0	50000	0	00113	CAL C(1)	RESTORE	LRT/052
00054	0	60200	0	00001	SLW 1	THE C(1).	LRT/053
00055	0	76600	0	00333	IOD	INPUT-OUTPUT DELAY.	LRT/054
00056	0	56000	0	00115	LDQ MAX	FORCE ALL TEST	LRT/055
00057	0	26000	0	00115	FMP MAX	CONDITIONS ON, AND THEN	LRT/056
00060	0	00000	0	00061	PZE QVR,**	RESTORE ORIGINAL AC OV CONDITION.	LRT/057
00061	0	00000	0	00062	PZE NXT,**	RESTORE ORIGINAL MQ OV CONDITION.	LRT/058
00062	0	22100	0	00116	NXT DVP ZER	AND THEN	LRT/059
00063	0	00000	0	00000	DCR PZE **	RESTORE ORIGINAL DIVIDE CHECK COND.	LRT/060
00064	0	76100	0	00000	NOP	AND THEN	LRT/061
00065	0	00000	0	00000	RTM PZE **	RESTORE ORIGINAL TRAP MODE COND.	LRT/062
00066	0	02100	0	00000	RET TTR **	* EXIT TO MAIN PROGRAM.	LRT/063
00067	-3	00000	0	00072	TRY TXL TRY1,0	OPSWITCH (TXL=TRA, TXH=NOP).	LRT/064
00070	0	42000	7	00007	HPR 7,7	HALT AFTER 2ND FAILURE.	LRT/065
00071	-3	00000	0	00047	TXLOP TXL GOOD,0	PRESS START TO ACCEPT RECORD.	LRT/066
00072	0	50000	0	00071	TRY1 CLA TXLOP	SET TRY TO NO TRANSFER CASE	LRT/067
00073	0	63000	0	00067	STP TRY	FOR 2ND ATTEMPT AT READING RECORD.	LRT/068
00074	0	53400	1	00116	LXA ZER,1	SET XR1 = 0, AND	LRT/069
00075	0	56000	1	00000	RT LDQ **,1	OBTAIN RTB LOCATION.	LRT/070
00076	-0	75400	0	00000	PXD ,0	OBTAIN OPERATION	LRT/071
00077	-0	76300	0	00014	LGL 12	BITS, AND TEST	LRT/072
00100	0	40200	0	00117	SUB BT	FOR LOCATION RTB.	LRT/073
00101	0	10000	0	00103	TZE CONT	IF NOT, THEN ADJUST THE	LRT/074
00102	1	77777	1	00075	TXI RT,1,-1	C(XR1), AND CONTINUE SEARCH.	LRT/075
00103	-0	76300	0	00030	CONT LGL 24	WHEN FOUND, SET	LRT/076
00104	0	62100	0	00105	STA BST	CURRENT TAPE ADDRESS.	LRT/077
00105	0	76400	0	00200	BST **	BACKSPACE CURRENT TAPE.	LRT/078
00106	-0	53400	1	00017	LXD ERX1,1	RESTORE THE	LRT/079
00107	-0	53400	2	00046	LXD ERX2,2	ORIGINAL CONTENTS OF	LRT/080
00110	-0	53400	4	00111	LXD ERX4,4	XR1,XR2, AND XR4.	LRT/081
00111	1	00000	0	00040	ERX4 TXI BAK,0,**	* EXIT TO MAIN PROGRAM FOR 2ND TRY.	LRT/082
					END OF PROGRAM (RTN).		LRT/083
					*****		LRT/084
					CONSTANTS AND WORKING STORAGE USED BY LEV/RTN/FIL/BDC.		LRT/085
00112	0	00000	0	00000	C(0) PZE **	VARIABLE USED BY LEV/RTN/FIL/BDC.	LRT/086
00113	0	00000	0	00000	C(1) PZE **	VARIABLE USED BY LEV/RTN/FIL/BDC.	LRT/087
00114	0	00000	0	00002	L(2) PZE 2	CONSTANT USED BY LEV/RTN/FIL/BDC.	LRT/088
00115	+377777777777				MAX OCT 377777777777	CONSTANT USED BY LEV/RTN/FIL/BDC.	LRT/089
00116	0	00000	0	00000	ZER PZE 0	CONSTANT USED BY LEV/RTN/FIL/BDC.	LRT/090
00117	+000000000762				BT OCT 000000000762	CONSTANT USED BY LEV/RTN/FIL/BDC.	LRT/091
					END OF CONSTANTS AND WORKING STORAGE USED BY LEV/RTN.		LRT/092
					*****		LRT/093
							LRT/094
							LRT/095

A

00000

END

LRT/096

1  
1

ABS

00000 0 00000 0 00042  
 00001 0 00000 0 77776  
 00002 256747740160  
 00003 0 00000 0 00000

CONTROL CARD FOR EXP(1

ORG 0  
 PZE EXP+1  
 PZE FACTOR  
 BCD 1EXP(1  
 PZE

END OF EXP(1 CONTROL CARD.

00000

ORG 0

EXPONENTIATION SUBROUTINE  
 FIXED POINT BASE, FIXED POINT EXPONENT

00000 0 10000 4 00001  
 00001 0 77100 0 00022  
 00002 0 60100 0 77777  
 00003 0 76300 0 00021  
 00004 0 62100 0 00041  
 00005 0 50000 0 00041  
 00006 -0 10000 0 00011  
 00007 0 56000 0 00040  
 00010 0 02000 0 00036  
 00011 0 50000 0 00040  
 00012 -0 40000 0 77777  
 00013 0 10000 0 00016  
 00014 0 16200 0 00016  
 00015 0 02000 0 00036  
 00016 0 50000 0 00040  
 00017 0 60100 0 77776  
 00020 0 50000 0 00041  
 00021 0 76000 0 00001  
 00022 0 02000 0 00026  
 00023 0 56000 0 77777  
 00024 0 20000 0 77776  
 00025 -0 60000 0 77776  
 00026 0 50000 0 00041  
 00027 0 77100 0 00001  
 00030 0 60100 0 00041  
 00031 0 10000 0 00036  
 00032 0 56000 0 77777  
 00033 0 20000 0 77777  
 00034 -0 60000 0 77777  
 00035 0 02000 0 00020  
 00036 0 76300 0 00065  
 00037 0 02000 4 00001

EXP(1

TZE 1,4

EXIT FOR ZERO BASE

ARS 18

STO POWER

SAVE BASE

LLS 17

STA EXP

CLA EXP

TNZ ENZ

LDQ FIXONE

TRA EXIT

ENZ

CLA FIXONE

SBM POWER

TZE N

TQP N

TRA EXIT

N

CLA FIXONE

STO FACTOR

CLA1

CLA EXP

LBT

TRA CLA2

LDQ POWER

MPY FACTOR

STQ FACTOR

CLA2

CLA EXP

ARS 1

STO EXP

TZE EXIT

LDQ POWER

MPY POWER

STQ POWER

TRA CLA1

EXIT

LLS 53

TRA 1,4

WORKING STORAGE

00040 +000000000001  
 00041 0 00000 0 00000  
 77777  
 77776  
 00000

FIXONE DEC 1  
 EXP  
 POWER SYN -1  
 FACTOR SYN -2  
 END

XP1/C01  
 XP1/C02  
 XP1/C03  
 XP1/C04  
 XP1/C05  
 XP1/C06  
 XP1/C07  
 EXP10001  
 EXP10002  
 EXP10003  
 EXP10004  
 EXP10005  
 EXP10006  
 EXP10007  
 EXP10008  
 EXP10009  
 EXP10010  
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 EXP10034  
 EXP10035  
 EXP10036  
 EXP10037  
 EXP10038  
 EXP10039  
 EXP10040  
 EXP10041

X  
 IS POWER  
 A FACTOR  
 NO  
 YES

COMPUTE  
 NEXT  
 POWER

A

al

1  
1

ABS

00000 0 00000 0 00050  
00001 0 00000 0 77776  
00002 256747740260  
00003 0 00000 0 00000

00000

00000 0 10000 4 00001  
00001 -0 63400 2 00022  
00002 0 16200 0 00005  
00003 -0 53400 2 00004  
00004 -3 77777 0 00006  
00005 -0 53400 2 00037  
00006 0 60100 0 77777  
00007 -0 75400 0 00000  
00010 0 76300 0 00021  
00011 0 62100 0 00047  
00012 0 50000 0 00047  
00013 -0 10000 0 00016  
00014 0 50000 0 00046  
00015 0 02000 0 00044  
00016 0 50000 0 00046  
00017 0 60100 0 77776  
00020 0 50000 0 00047  
00021 0 76000 0 00001  
00022 -3 00000 0 00026  
00023 0 56000 0 77777  
00024 0 26000 0 77776  
00025 0 60100 0 77776  
00026 0 50000 0 00047  
00027 0 77100 0 00001  
00030 0 60100 0 00047  
00031 0 10000 0 00036  
00032 0 56000 0 77777  
00033 0 26000 0 77777  
00034 0 60100 0 77777  
00035 0 02000 0 00020  
00036 0 50000 0 77776  
00037 -3 00000 2 00044  
00040 0 50000 0 00046  
00041 0 24000 0 77776  
00042 -0 75400 0 00000  
00043 0 76300 0 00043  
00044 -0 53400 2 00022

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CONTROL CARD FOR EXP(2

ORG 0  
PZE EXP+1  
PZE FACTOR  
BCD 1EXP(2  
PZE

END OF EXP(2 CONTROL CARD.

ORG 0  
EXPONENTIATION SUBROUTINE  
FLOATING POINT BASE, FIXED POINT EXPONENT

EXP(2 TZE 1,4  
SXD SAVEX,2  
TQP MQPOS  
LXD NEGONE,2  
NEGONE TXL MQPOS+1,0,-1

MQPOS LXD TXL,2  
STO POWER

PXD  
LLS 17  
STA EXP  
CLA EXP  
TNZ N

CLA FLOONE  
TRA EXIT  
CLA FLOONE  
STO FACTOR

N  
CLA1 CLA EXP  
LBT  
SAVEX TXL CLA2

LDQ POWER  
FMP FACTOR  
STO FACTOR  
CLA2 CLA EXP

ARS 1  
STO EXP  
TZE TXL-1  
LDQ POWER

FMP POWER  
STO POWER  
TRA CLA1  
CLA FACTOR

TXL TXL EXIT,2  
CLA FLOONE  
FDH FACTOR  
PXD  
LLS 35

EXIT LXD SAVEX,2  
WORKING STORAGE  
TRA 1,4  
FLOONE DEC 1,0

EXP  
77777 POWER SYN -1  
77776 FACTOR SYN -2

SET NEGATIVE MQ INDICATOR

SET POSITIVE MQ INDICATOR  
INITIALIZATION

X  
X

X  
X  
IS POWER  
A FACTOR  
NO  
YES

XP2/C01  
XP2/C02  
XP2/C03  
XP2/C04  
XP2/C05  
XP2/C06  
XP2/C07  
EXP20001  
EXP20002  
EXP20003  
EXP20004  
EXP20005  
EXP20006  
EXP20007  
EXP20008  
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EXP20010  
EXP20011  
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EXP20041  
EXP20042  
EXP20043  
EXP20044  
EXP20045  
EXP20046

A

00000

END

EXP20047

1  
1

ABS

00000 00000  
 00000 0 00000 0 00161  
 00001 0 00000 0 77770  
 00002 256747740360  
 00003 0 00000 0 00000  
 00004 256747606060  
 00005 -0 00000 0 00010  
 00006 434627606060  
 00007 -0 00000 0 00107

00000

00000 0 10000 4 00001  
 00001 0 76000 0 00003  
 00002 -0 63400 4 77770  
 00003 -0 60000 0 77772  
 00004 0 07400 4 00111  
 00005 0 76500 0 00043  
 00006 0 26000 0 77772  
 00007 0 07400 4 00012  
 00010 -0 53400 4 77770  
 00011 0 02000 4 00001

EXP(3

LXD

S816EX

00012 0 60100 0 77773  
 00013 0 76000 0 00003  
 00014 0 40200 0 00101  
 00015 0 76500 0 00000  
 00016 -0 75400 0 00000  
 00017 0 16200 0 00075  
 00020 0 40100 0 77773  
 00021 0 56000 0 00110  
 00022 0 40200 0 00107  
 00023 -0 12000 0 00033  
 00024 0 76500 0 00033  
 00025 0 62100 0 00027  
 00026 -0 75400 0 00000  
 00027 0 76300 0 00000  
 00030 0 22000 0 00102  
 00031 0 77100 0 00010  
 00032 -0 77300 0 00033  
 00033 0 40000 0 00107  
 00034 -0 60000 0 77774  
 00035 0 30000 0 00107  
 00036 0 60100 0 77775  
 00037 0 56000 0 77775  
 00040 0 26000 0 77775  
 00041 0 60100 0 77776  
 00042 0 30000 0 00103  
 00043 0 60100 0 77777  
 00044 0 50000 0 00104  
 00045 0 24000 0 77777

CONTROL CARD FOR EXP(3

ORG 0  
 113  
 -8  
 BCD 1EXP(3  
 PZE  
 BCD 1EXP  
 MZE 8  
 BCD 1LOG  
 MZE 71  
 END OF EXP(3 CONTROL CARD.  
 ORG 0  
 EXPONENTIATION SUBROUTINE  
 FLOATING POINT BASE, FLOATING POINT EXPONENT  
 BASE ZERO  
 TZE 1,4  
 SSP  
 SXD TXL,4  
 STQ EXP1  
 TSX LOG,4  
 LRS 35  
 FMP EXP1  
 TSX EXP,4  
 LXD TXL,4  
 TRA 1,4  
 LAS816 EXPONENTIAL SUBROUTINE  
 STO COMMON+00000,0,00000  
 SSP 00000,0,00000  
 SUB S816EX+00055,0,00000  
 LRS 00000,0,00000  
 PXD 00000,0,00000  
 TQP S816EX+00051,0,00000  
 ADM COMMON+00000,0,00000  
 LDQ S816EX+00062,0,00000  
 SUB S816EX+00061,0,00000  
 TMI S816EX+00017,0,00000  
 LRS 00027,0,00000  
 STA S816EX+00013,0,00000  
 PXD 00000,0,00000  
 LLS 00000,0,00000  
 DVH S816EX+00056,0,00000  
 ARS 00008,0,00000  
 RQL 00027,0,00000  
 ADD S816EX+00061,0,00000  
 STQ COMMON+00001,0,00000  
 FAD S816EX+00061,0,00000  
 STO COMMON+00002,0,00000  
 LDQ COMMON+00002,0,00000  
 FMP COMMON+00002,0,00000  
 STO COMMON+00003,0,00000  
 FAD S816EX+00057,0,00000  
 STO COMMON+00004,0,00000  
 CLA S816EX+00058,0,00000  
 FDH COMMON+00004,0,00000

XP3/C01  
 XP3/C02  
 XP3/C03  
 XP3/C04  
 XP3/C05  
 XP3/C06  
 XP3/C07  
 XP3/C08  
 XP3/C09  
 XP3/C10  
 XP3/C11  
 EXP30001  
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 EXP30042

00046 -0 60000 0 77777  
 00047 0 50000 0 00105  
 00050 0 30000 0 77777  
 00051 0 60100 0 77777  
 00052 0 56000 0 77777  
 00053 0 26000 0 77776  
 00054 0 30000 0 00106  
 00055 0 60100 0 77776  
 00056 0 30200 0 77775  
 00057 0 60100 0 77777  
 00060 0 50000 0 77776  
 00061 0 30000 0 77775  
 00062 0 40000 0 77774  
 00063 0 60100 0 77776  
 00064 0 56000 0 77773  
 00065 0 16200 0 00071  
 00066 0 50000 0 77777  
 00067 0 56000 0 77776  
 00070 -0 60000 0 77777  
 00071 0 24000 0 77777  
 00072 -0 60000 0 77773  
 00073 0 50000 0 77773  
 00074 0 02000 4 00001  
 00075 0 56000 0 77773  
 00076 0 04000 4 00001  
 00077 0 76000 0 00006  
 00100 0 02000 4 00001  
 00101 +207535146314  
 00102 +261344137676  
 00103 +206520000000  
 00104 +203471463146  
 00105 +174631463146  
 00106 +202400000000  
 00107 +200000000000  
 00110 +000000000000  
 00111 0 10000 4 00001  
 00112 0 76000 0 00003  
 00113 0 76500 0 00033  
 00114 -0 60000 0 77773  
 00115 0 76700 0 00023  
 00116 -0 50100 0 00147  
 00117 0 30200 0 00150  
 00120 0 60100 0 77774  
 00121 0 50000 0 77773  
 00122 0 76500 0 00010  
 00123 -0 50100 0 00151  
 00124 0 30000 0 00152  
 00125 0 60100 0 77773  
 00126 0 30200 0 00153  
 00127 0 24000 0 77773  
 00130 -0 60000 0 77773  
 00131 0 26000 0 77773  
 00132 0 60100 0 77775

LA5820

STQ COMMON+00004,0,00000  
 CLA S816EX+00059,0,00000  
 FAD COMMON+00004,0,00000  
 STO COMMON+00004,0,00000  
 LDQ COMMON+00004,0,00000  
 FMP COMMON+00003,0,00000  
 FAD S816EX+00060,0,00000  
 STO COMMON+00003,0,00000  
 FSB COMMON+00002,0,00000  
 STO COMMON+00004,0,00000  
 CLA COMMON+00003,0,00000  
 FAD COMMON+00002,0,00000  
 ADD COMMON+00001,0,00000  
 STO COMMON+00003,0,00000  
 LDQ COMMON+00000,0,00000  
 TQP S816EX+00047,0,00000  
 CLA COMMON+00004,0,00000  
 LDQ COMMON+00003,0,00000  
 STQ COMMON+00004,0,00000  
 FDH COMMON+00004,0,00000  
 STQ COMMON+00000,0,00000  
 CLA COMMON+00000,0,00000  
 TRA 00001,4,00000  
 LDQ COMMON+00000,0,00000  
 TLQ 00001,4,00000  
 COM 00000,0,00000  
 TRA 00001,4,00000  
 DEC 8.730000000000E01  
 OCT 261344137676  
 DEC 4.200000000000E01  
 DEC 4.900000000000E00  
 DEC 5.000000000000E-02  
 DEC 2.000000000000E00  
 OCT 200000000000  
 OCT 000000000000  
 LA S820 NATURAL LOGARITHM SUBROUTINE  
 TZE 00001,4,00000  
 SSP  
 LRS 00027,0,00000  
 STQ COMMON+00000,0,00000  
 ALS 00019,0,00000  
 ORA LAS820+00030,0,00000  
 FSB LAS820+00031,0,00000  
 STO COMMON+00001,0,00000  
 CLA COMMON+00000,0,00000  
 LRS 00008,0,00000  
 ORA LAS820+00032,0,00000  
 FAD LAS820+00033,0,00000  
 STO COMMON+00000,0,00000  
 FSB LAS820+00034,0,00000  
 FDH COMMON+00000,0,00000  
 STQ COMMON+00000,0,00000  
 FMP COMMON+00000,0,00000  
 STO COMMON+00002,0,00000

EXP30043  
 EXP30044  
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 EXP30094  
 EXP30095  
 EXP30096



00133 0 56000 0 00156  
00134 0 26000 0 77775  
00135 0 30000 0 00155  
00136 0 76500 0 00043  
00137 0 26000 0 77775  
00140 0 30000 0 00154  
00141 0 76500 0 00043  
00142 0 26000 0 77773  
00143 0 30000 0 77774  
00144 0 76500 0 00043  
00145 0 26000 0 00157  
00146 0 02000 4 00001  
00147 +210000000000  
00150 +210401000000  
00151 +200000000000  
00152 +200552023631  
00153 +201552023631  
00154 +202561251001  
00155 +200754213603  
00156 +200462532521  
00157 +200542710277

77773 COMMON SYN -5  
77772 EXP1 SYN -6  
77771 BASE SYN -7  
77770 TXL SYN -8  
00111 LOG SYN LAS820  
00012 EXP SYN S816EX  
00000 END

LDQ LAS820+00037,0,00000  
FMP COMMON+00002,0,00000  
FAD LAS820+00036,0,00000  
LRS 00035,0,00000  
FMP COMMON+00002,0,00000  
FAD LAS820+00035,0,00000  
LRS 00035,0,00000  
FMP COMMON+00000,0,00000  
FAD COMMON+00001,0,00000  
LRS 00035,0,00000  
FMP LAS820+00038,0,00000  
TRA 00001,4,00000  
OCT 210000000000  
DEC 1.285000000000E02  
OCT 200000000000  
DEC 7.07106781187E-01  
DEC 1.41421356237E00  
DEC 2.88539129030E00  
DEC 9.61470632300E-01  
DEC 5.98978649600E-01  
DEC 6.93147180560E-01

EXP30097  
EXP30098  
EXP30099  
EXP30100  
EXP30101  
EXP30102  
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EXP30121  
EXP30122  
EXP30123  
EXP30124

A

1  
1

ABS

00000 0 00000 0 00052  
 00001 0 00000 0 77775  
 00002 434627606060  
 00003 0 00000 0 00000

A

00000 0 10000 4 00001 LAS820  
 00001 0 76000 0 00003  
 00002 0 76500 0 00033  
 00003 -0 60000 0 77775  
 00004 0 76700 0 00023  
 00005 -0 50100 0 00036  
 00006 0 30200 0 00037  
 00007 0 60100 0 77776  
 00010 0 50000 0 77775  
 00011 0 76500 0 00010  
 00012 -0 50100 0 00040  
 00013 0 30000 0 00041  
 00014 0 60100 0 77775  
 00015 0 30200 0 00042  
 00016 0 24000 0 77775  
 00017 -0 60000 0 77775  
 00020 0 26000 0 77775  
 00021 0 60100 0 77777  
 00022 0 56000 0 00045  
 00023 0 26000 0 77777  
 00024 0 30000 0 00044  
 00025 0 76500 0 00043  
 00026 0 26000 0 77777  
 00027 0 30000 0 00043  
 00030 0 76500 0 00043  
 00031 0 26000 0 77775  
 00032 0 30000 0 77776  
 00033 0 76500 0 00043  
 00034 0 26000 0 00046  
 00035 0 02000 4 00001  
 00036 +210000000000  
 00037 +210401000000  
 00040 +200000000000  
 00041 +200552023631  
 00042 +201552023631  
 00043 +202561251001  
 00044 +200754213603  
 00045 +200462532521  
 00046 +200542710277

A

77775 COMMON  
00000

CONTROL CARD FOR LOG.

ORG 0  
 42  
 PZE COMMON  
 BCD 1LOG  
 PZE  
 END OF LOG CONTROL CARD  
 ORG  
 LAS820 NATURAL LOGARITHM SUBROUTINE  
 TZE 00001,4,00000  
 SSP  
 LRS 00027,0,00000  
 STQ COMMON+00000,0,00000  
 ALS 00019,0,00000  
 ORA LAS820+00030,0,00000  
 FSB LAS820+00031,0,00000  
 STO COMMON+00001,0,00000  
 CLA COMMON+00000,0,00000  
 LRS 00008,0,00000  
 ORA LAS820+00032,0,00000  
 FAD LAS820+00033,0,00000  
 STO COMMON+00000,0,00000  
 FSB LAS820+00034,0,00000  
 FDH COMMON+00000,0,00000  
 STQ COMMON+00000,0,00000  
 FMP COMMON+00000,0,00000  
 STO COMMON+00002,0,00000  
 LDQ LAS820+00037,0,00000  
 FMP COMMON+00002,0,00000  
 FAD LAS820+00036,0,00000  
 LRS 00035,0,00000  
 FMP COMMON+00002,0,00000  
 FAD LAS820+00035,0,00000  
 LRS 00035,0,00000  
 FMP COMMON+00000,0,00000  
 FAD COMMON+00001,0,00000  
 LRS 00035,0,00000  
 FMP LAS820+00038,0,00000  
 TRA 00001,4,00000  
 OCT 210000000000  
 DEC 1.28500000000E02  
 OCT 200000000000  
 DEC 7.07106781187E-01  
 DEC 1.41421356237E00  
 DEC 2.88539129030E00  
 DEC 9.61470632300E-01  
 DEC 5.98978649600E-01  
 DEC 6.93147180560E-01  
 SYN -3  
 END

LOG/C01  
 LOG/C02  
 LOG/C03  
 LOG/C04  
 LOG/C05  
 LOG/C06  
 LOG/C07  
 LOG 0002  
 LOG 0003  
 LOG 0004  
 LOG 0005  
 LOG 0006  
 LOG 0007  
 LOG 0008  
 LOG 0009  
 LOG 0010  
 LOG 0011  
 LOG 0012  
 LOG 0013  
 LOG 0014  
 LOG 0015  
 LOG 0016  
 LOG 0017  
 LOG 0018  
 LOG 0019  
 LOG 0020  
 LOG 0021  
 LOG 0022  
 LOG 0023  
 LOG 0024  
 LOG 0025  
 LOG 0026  
 LOG 0027  
 LOG 0028  
 LOG 0029  
 LOG 0030  
 LOG 0031  
 LOG 0032  
 LOG 0033  
 LOG 0034  
 LOG 0035  
 LOG 0036  
 LOG 0037  
 LOG 0038  
 LOG 0039  
 LOG 0040  
 LOG 0041  
 LOG 0042  
 LOG 0043  
 LOG 0044

1  
1

REL

00000

ORG 0

F2SIN001

FORTRAN LIBRARY VERSION OF IB SIN 1  
COMPUTES SINE OR COSINE OF A SINGLE PRECISION NORMALIZED  
FLOATING POINT ARGUMENT, TSX SIN OR TSX COS. REL. ERROR  
LESS THAN 1/2 X 10 TO -8. TIMING ABOUT 2.03 SIN, 2.11 COS.

00000	0	30200	0	00153	COS	FSB	FPHLF		F2SIN002
00001	0	76000	0	00002		CHS			F2SIN003
00002	0	60100	0	77774	SIN	STO	SPMLT		F2SIN004
00003	0	76500	0	00011		LRS	9		F2SIN005
00004	-0	63400	1	00021		SXD	SAVE,1		F2SIN006
00005	-0	73400	1	00000		PDX	0,1		F2SIN007
00006	-0	14000	0	00134	OVTST	TNO	NOVFL	OVERFLOW TEST	F2SIN008
00007	-0	63400	4	00120		SXD	INDIC,4	OVERFLOW TO BE RESTORED	F2SIN009
00010	3	00244	1	00022		TXH	ERR,1,164		F2SIN010
00011	0	76300	0	00023		LLS	19		F2SIN011
00012	-3	00202	1	00026		TXL	SPEC,1,130		F2SIN012
00013	0	76500	1	00250	LRTSH	LRS	168,1	B3	F2SIN013
00014	0	22000	0	00136		DVH	PI	PI...B3, BQ...35	F2SIN014
00015	-0	77300	0	00043		RQL	35	LAST BIT TO SIGN MQ	F2SIN015
00016	0	16200	0	00041		TQP	FRLAR		F2SIN016
00017	0	76000	0	00002		CHS			F2SIN017
00020	0	60100	0	77774		STO	SPMLT		F2SIN018
00021	-3	00000	0	00041	SAVE	TXL	FRLAR,0,**		F2SIN019
00022	0	02000	0	00117	ERR	TRA	FINI-1		F2SIN020
00023	0	40200	0	00137	EQUA	SUB	PIHLF		F2SIN021
00024	0	60200	0	77775		SLW	REDA		F2SIN022
00025	1	00002	1	00057	SX	TXI	COMCA,1,2	COSC, XR...4	F2SIN023
								SPECIAL CASE, ANGLE NEED NOT BE REDUCED	F2SIN024
00026	-3	00162	1	00130	SPEC	TXL	LOW,1,114		F2SIN025
00027	-0	76000	0	00001		PBT			F2SIN026
00030	0	02000	0	00032		TRA	SPEC+4		F2SIN027
00031	3	00201	1	00013		TXH	LRTSH,1,129		F2SIN028
00032	0	76500	1	00205		LRS	133,1	B3	F2SIN029
00033	0	76000	0	00003		SSP			F2SIN030
00034	0	56000	0	00142		LDQ	TEST		F2SIN031
00035	0	04000	0	00042		TLQ	FRLAR+1		F2SIN032
00036	0	60100	0	77775		STO	REDA		F2SIN033
00037	-0	53400	1	00025		LXD	SX,1		F2SIN034
00040	0	02000	0	00057		TRA	COMCA		F2SIN035
00041	0	76000	0	00003	FRLAR	SSP			F2SIN036
00042	-0	53400	1	00025		LXD	SX,1		F2SIN037
00043	0	34000	0	00137		CAS	PIHLF		F2SIN038
00044	0	40200	0	00136		SUB	PI	LARGER THAN PIHLF	F2SIN039
00045	0	76000	0	00003		SSP		EQUAL TO PIHLF	F2SIN040
00046	0	56000	0	00142		LDQ	TEST		F2SIN041
00047	0	04000	0	00023		TLQ	EQUA		F2SIN042
00050	0	60100	0	77775		STO	REDA	ANGLE IN FIRSF QUADRANT, B3	F2SIN043
00051	0	76500	0	00004	FLOAT	LRS	4		F2SIN044
00052	0	40000	0	00140		ADD	CHAR		F2SIN045
00053	0	30000	0	00141		FAD	CHAR+1	200	F2SIN046
00054	0	56000	0	77774		LDQ	SPMLT		F2SIN047
00055	0	76300	0	00000		LLS	0		F2SIN048
00056	0	60100	0	77774		STO	SPMLT		F2SIN049
									F2SIN050
									F2SIN051
									F2SIN052
									F2SIN053
									F2SIN054

```

00057 0 56000 0 77775 COMCA LDQ Z
00060 -0 20000 0 77775 MPR Z
00061 0 60100 0 77777 STO ZSQ
00062 0 40000 1 00147 ADD CONST+4,1
00063 0 60100 0 77776 STO SOR
00064 0 50000 1 00150 CLA CONST+5,1
00065 0 22000 0 77776 DVH SOR
00066 -0 60000 0 77776 STQ SOR
00067 0 50000 0 77776 CLA SOR
00070 0 40000 1 00153 ADD CONST+8,1
00071 0 76700 0 00001 ALS 1
00072 0 40000 0 77777 ADD ZSQ
00073 0 77100 1 00006 ARS 6,1
00074 -3 00002 1 00123 TXL S,1,2
00075 0 60100 0 77776 STO SOR
00076 0 50000 0 77777 CLA ZSQ
00077 0 76500 0 00002 LRS 2
00100 0 40000 0 77777 ADD ZSQ
00101 0 76300 0 00001 LLS 1
00102 0 40000 0 00150 ADD CONST+5
00103 0 22000 0 77776 DVH SOR
00104 -0 60000 0 77776 STQ SOR
00105 0 50000 0 77776 CLA SOR
00106 0 40000 0 00152 ADD CONST+7
00107 0 76500 0 00002 LRS 2
00110 0 40200 0 77777 SUB ZSQ
00111 0 56000 0 77774 LDQ SPMLT
00112 0 76300 0 00010 LLS 8
00113 -0 76000 0 00001 PBT
00114 1 00001 1 00115 TXI RTSH,1,1
00115 0 77100 1 00015 RTSH ARS 13,1
00116 0 36100 1 00145 ACL CHAR+5,1
00117 -0 53400 1 00021 LXD SAVE,1
U 00120 3 4 00122 FINI TXH FINI+2,4,...
00121 0 02000 4 00001 TRA 1,4
00122 0 14000 0 00121 TOV FINI+1
00123 0 40000 0 00141 S ADD CHAR+1
00124 0 60100 0 77777 STO ZSQ
00125 0 56000 0 77777 LDQ ZSQ
00126 0 26000 0 77774 FMP SPMLT
00127 0 02000 0 00117 TRA FINI-1
00130 0 50000 0 00120 LOW CLA FINI
00131 0 76700 0 00011 ALS 9
00132 0 50000 0 77774 CLA SPMLT
00133 0 02000 0 00117 TRA FINI-1
00134 -0 63400 0 00120 NOVFL SXD INDIC,0
00135 0 02000 0 00010 TRA OVTST+2

00120 INDIC SYN FINI
00136 +144417665210 PI DEC 3.1415926535983
00137 +062207732503 PIHLF DEC 1.5707963267983
00140 +177000000000 CHAR OCT 177000000000
00141 +200000000000 CHAR OCT 200000000000

```

COMMON CALCULATION FOR SIN AND COS  
COMMON CALC., B3

B6  
24.1B6, 50. B6

2287B13, 1042B11

82.5B7, -19.B5  
B6, BITS IN P,Q

B8

-3276B13

19.477B5

XR...5 FOR OCOS  
9 OR 8  
127 OR 128

LEAVE ON  
TURN OFF  
128

CLEAR DECREMENT OF INDIC

CONSTANTS

F2SIN055  
F2SIN056  
F2SIN057  
F2SIN058  
F2SIN059  
F2SIN060  
F2SIN061  
F2SIN062  
F2SIN063  
F2SIN064  
F2SIN065  
F2SIN066  
F2SIN067  
F2SIN068  
F2SIN069  
F2SIN070  
F2SIN071  
F2SIN072  
F2SIN073  
F2SIN074  
F2SIN075  
F2SIN076  
F2SIN077  
F2SIN078  
F2SIN079  
F2SIN080  
F2SIN081  
F2SIN082  
F2SIN083  
F2SIN084  
F2SIN085  
F2SIN086  
F2SIN087  
F2SIN088  
F2SIN089  
F2SIN090  
F2SIN091  
F2SIN092  
F2SIN093  
F2SIN094  
F2SIN095  
F2SIN096  
F2SIN097  
F2SIN097A  
F2SIN097B  
F2SIN098  
F2SIN099  
F2SIN100  
F2SIN101  
F2SIN102  
F2SIN103  
F2SIN104  
F2SIN105  
F2SIN106

932

00142 +011463146314	TEST DEC .383	F2SIN107
00143 +140450575062	CONST DEC 24.1448946943B6,2287.443195687B13,50.0302454854B6	F2SIN108
00144 +107367056521		
00145 +310075742536		
00146 +202273236275	DEC 1042.9267081438B11,82.58030199563B7,-3276.33995164B13	F2SIN109
00147 +245122165275		
00150 -146305340704		
00151 -236610717605	DEC -19.8459242632B5,19.477149451B5	F2SIN110
00152 +233642316731		
00153 +201622077325	FPHLF DEC 1.57079632679	F2SIN111
77774	COMMON EQU -4	F2SIN112
77774	SPMLT EQU COMMON	F2SIN113
77775	REDA EQU COMMON+1	F2SIN114
77775	Z EQU COMMON+1	F2SIN115
77776	SOR EQU COMMON+2	F2SIN116
77777	ZSQ EQU COMMON+3	F2SIN117
00000	END 0	F2SIN118
00001 0	..	

REL	00000	ORG 0	F2EXP001	F2EXP002
			FLOATING POINT EXPONENTIAL SUBROUTINE, FORTRAN VERSION	F2EXP003
00000	0 60100 0 77777	EXP STO M	STORE ARGUMENT	F2EXP004
00001	0 56000 0 00046	LDQ MAX	TEST IF OUT OF RANGE	F2EXP005
00002	0 04000 4 00001	TLQ 1,4	IF TOO LARGE ERROR RETURN	F2EXP006
00003	0 76000 0 00002	CHS		F2EXP007
00004	0 04000 0 00044	TLQ T1	IF TOO SMALL RETURN WITH ZERO	F2EXP008
00005	0 76500 0 00033	LRS 27		F2EXP009
00006	-0 76000 0 00003	SSM		F2EXP010
00007	0 40000 0 00050	ADD CHAR	CONVERT TO FIXED POINT	F2EXP011
00010	0 62100 0 00012	STA SH1		F2EXP012
00011	0 20000 0 00047	MPY LOGE	X TIMES LOG E BASE 2	F2EXP013
A 00012	0 76500 0 00000	SH1 LRS	SEPARATE INTEGER AND FRACTION	F2EXP014
00013	0 76700 0 00033	ALS 27		F2EXP015
00014	0 60100 0 77777	STO M		F2EXP016
00015	0 76500 0 00004	LRS 4		F2EXP017
00016	-0 60000 0 77776	STQ F		F2EXP018
00017	0 20000 0 77776	MPY F	COMPUTE FRACTION SQUARED	F2EXP019
00020	0 60100 0 77775	STO SQ	COMPUTE CONTINUED FRACTION	F2EXP020
00021	0 40000 0 00053	ADD A	8,27 SCALING	F2EXP021
00022	0 60100 0 77774	STO T	8,27	F2EXP022
00023	0 50000 0 00054	CLA B	12,23	F2EXP023
00024	0 22100 0 77774	DVP T	8,27 4,31	F2EXP024
00025	-0 60000 0 77774	STQ T	4,31	F2EXP025
00026	0 56000 0 77775	LDQ SQ	8,27	F2EXP026
00027	0 20000 0 00055	MPY C	0,35 8,27	F2EXP027
00030	0 76300 0 00004	LLS 4	4,31	F2EXP028
00031	0 40200 0 77774	SUB T	4,31	F2EXP029
00032	0 40000 0 00056	ADD D	4,31	F2EXP030
00033	0 40200 0 77776	SUB F	4,31	F2EXP031
00034	0 60100 0 77774	STO T	4,31	F2EXP032
00035	0 50000 0 77776	CLA F	5,31 NUMERATOR EQUALS 2F	F2EXP033
00036	0 22100 0 77774	DVP T	4,31 1,34	F2EXP034
00037	-0 60000 0 77774	STQ T		F2EXP035
00040	0 50000 0 77774	CLA T		F2EXP036
00041	0 76500 0 00010	LRS 8		F2EXP037
00042	-0 50100 0 00052	ORA CH1		
00043	0 30000 0 00051	FAD CH		
00044	0 40000 0 77777	T1 ADD M	RETURN	F2EXP039
00045	0 02000 4 00001	TRA 1,4	CONSTANTS	F2EXP040
00046	+207540071260	MAX DEC 88.028		F2EXP041
00047	-270524354513	LOGE DEC -1.4426950409B1		F2EXP042
00050	+000000000242	CHAR OCT 242		F2EXP043
00051	+201400000000	CH OCT 201400000000		F2EXP044
00052	+201000000000	CH1 OCT 201000000000		F2EXP045
00053	+127325604305	A DEC 87.417497202B8		F2EXP046
00054	+046477071523	B DEC 617.9722695812		F2EXP047
00055	+010676467774	C DEC .03465735903B0		F2EXP048
00056	+237214030720	D DEC 9.9545957821B4	ERASABLES	F2EXP049
	77777	M EQU -1		F2EXP050
	77776	F EQU -2		F2EXP051
				F2EXP052

7775 SQ EQU -3  
7774 T EQU -4  
60000 END 0

F2EXP053  
F2EXP054  
F2EXP055

1  
1

ABS

00000 0 00000 0 00025  
00001 0 00000 0 77776  
00002 625051636060  
00003 0 00000 0 00000

00000

00000 0 10000 4 00001  
00001 0 76000 0 00003  
00002 0 60100 0 77776  
00003 -0 50100 0 00022  
00004 0 77100 0 00001  
00005 0 40000 0 00023  
00006 -0 63400 4 00024  
00007 0 53400 4 00024  
00010 0 60100 0 77777  
00011 0 50000 0 77776  
00012 0 24000 0 77777  
00013 0 50000 0 77777  
00014 -0 60000 0 77777  
00015 0 30000 0 77777  
00016 0 40200 0 00022  
00017 2 00001 4 00010  
00020 -0 53400 4 00024  
00021 0 02000 4 00001  
00022 +001000000000  
00023 +100000000000  
00024 +000000000004

77776 COMMON SYN -2  
00000 END

CONTROL CARD FOR SQRT.

ORG 0  
PZE C+3  
PZE COMMON  
BCD 1SQRT  
PZE

END OF SQRT CONTROL CARD.

ORG 0  
CL SQR3 SQUARE ROOT SUBROUTINE  
FUNCTION NAME ... SQRTF

SQRT TZE 1,4 SQRT OF ZERO IS ZERO  
SSP SET SIGN X PLUS  
P2 STO COMMON X  
ORA C MAKE POWER ODD  
ARS 1  
ADD C+1 NORMALIZED YO IN A.C.  
SXD C+2,4  
LXA C+2,4 4 TO INDEX  
P1 STO COMMON+1 S TO RE YO  
CLA COMMON 1X1 TO A.C.  
FDH COMMON+1 1C1/YO TO A.C.  
CLA COMMON+1 YO TO A.C.  
STQ COMMON+1 Q1 TO COMMON+1  
FAD COMMON+1 YO+Q1 TO A.C.  
SUB C (YO+Q1)/2 TO A.C.  
TIX P1,4,1 REDUCE INDEX BY 1  
LXD C+2,4  
TRA 1,4  
C OCT 1000000000,100000000000,4

SQRT/C01  
SQRT/C02  
SQRT/C03  
SQRT/C04  
SQRT/C05  
SQRT/C06  
SQRT/C07  
SQRT0001  
SQRT0002  
SQRT0003  
SQRT0004  
SQRT0005  
SQRT0006  
SQRT0007  
SQRT0008  
SQRT0009  
SQRT0010  
SQRT0011  
SQRT0012  
SQRT0013  
SQRT0014  
SQRT0015  
SQRT0016  
SQRT0017  
SQRT0018  
SQRT0019  
SQRT0020  
SQRT0021  
SQRT0022

SQRT0023  
SQRT0024



1  
1

REL	ORG	0	F2ATN001	F2ATN002
00000	-0 63400 1 00121	ATAN	SXD I1,1	F2ATN003
00001	-0 12000 0 00063		TMI T100	F2ATN004
00002	0 60100 0 77777	T30	STO X	F2ATN005
00003	0 40200 0 00072		SUB MAX	F2ATN006
00004	-0 12000 0 00007		TMI T21	F2ATN007
00005	0 50000 0 00120		CLA PIOV2	F2ATN008
00006	0 02000 4 00001		TRA 1,4	F2ATN009
00007	0 40000 0 00071	T21	ADD MIN	F2ATN010
00010	0 12000 0 00013		TPL T22	F2ATN011
00011	0 50000 0 77777		CLA X	F2ATN012
00012	0 02000 4 00001		TRA 1,4	F2ATN013
00013	0 53400 1 00121	T22	LXA I1,1	F2ATN014
00014	0 50000 0 77777	T17	CLA X	F2ATN015
00015	0 40200 1 00076		SUB A,1	F2ATN016
00016	-0 12000 0 00020		TMI T1	F2ATN017
00017	1 00001 1 00014		TXI T17,1,1	F2ATN018
00020	3 00000 1 00024	T1	TXH T2,1,0	F2ATN019
00021	0 56000 0 77777		LDQ X	F2ATN020
00022	0 26000 0 00117		FMP L	F2ATN021
00023	0 02000 0 00037		TRA T11	F2ATN022
00024	-0 75400 1 00000	T2	PXD 0,1	F2ATN023
00025	0 40200 0 00123		SUB CHAR	F2ATN024
00026	-0 73400 1 00000		PDX 0,1	F2ATN025
00027	0 50000 0 77777	T3	CLA X	F2ATN026
00030	0 30000 1 00072		FAD MAX,1	F2ATN027
00031	0 60100 0 77776		STO T	F2ATN028
00032	0 50200 1 00102		CLS B,1	F2ATN029
00033	0 24100 0 77776		FDP T	F2ATN030
00034	-0 60000 0 77776		STQ T	F2ATN031
00035	0 50000 0 77776		CLA T	F2ATN032
00036	0 30000 1 00076		FAD A,1	F2ATN033
00037	0 60100 0 77777	T11	STO X	F2ATN034
00040	0 56000 0 77777		LDQ X	F2ATN035
00041	0 26000 0 77777		FMP X	F2ATN036
00042	0 60100 0 77775		STO SQ	F2ATN037
00043	0 30000 0 00114		FAD C1	F2ATN038
00044	0 60100 0 77776		STO T	F2ATN039
00045	0 50200 0 00115		CLS C2	F2ATN040
00046	0 24100 0 77775		FDP T	F2ATN041
00047	-0 60000 0 77776		STQ T	F2ATN042
00050	0 50000 0 77776		CLA T	F2ATN043
00051	0 30000 0 00116		FAD C3	F2ATN044
00052	0 30000 0 77775		FAD SQ	F2ATN045
00053	0 60100 0 77776		STO T	F2ATN046
00054	0 50000 0 77777		CLA X	F2ATN047
00055	0 24100 0 77776		FDP T	F2ATN048
00056	-0 60000 0 77776		STQ T	F2ATN049
00057	0 50000 0 77776		CLA T	F2ATN050
00060	0 30000 1 00107		FAD N,1	F2ATN051
00061	-0 53400 1 00121		LXD I1,1	F2ATN052
00062	0 02000 4 00001		TRA 1,4	F2ATN053
				F2ATN054

FLOATING POINT ARCTANGENT SUBROUTINE, FORTRAN VERSION  
SAVE INDEX REGISTER ONE  
SET ARGUMENT POSITIVE  
STORE ARGUMENT  
TEST IF OUT OF RANGE  
IF TOO LARGE, RETURN WITH PI/2  
IF TOO SMALL, RETURN WITH ARGUMENT  
TEST FOR INTERVAL CONTAINING X  
IF IN INTERVAL ONE LET Z=9X/55  
TAKE NEGATIVE OF INDEX REGISTER ONE  
COMPUTE Z=A-B/C+X FOR PROPER INTERVAL  
COMPUTE Z SQUARED  
COMPUTE CONTINUED FRACTION  
ADD INTERVAL CONSTANT  
RETURN

00063	-0 63400 4 00122	T100	SXD I4,4
00064	0 76000 0 00003		SSP
00065	0 07400 4 00002		TSX T30,4
00066	-0 53400 4 00122		LXD I4,4
00067	-0 76000 0 00003		SSM
00070	0 02000 4 00001		TRA 1,4
00071	+00000000000	MIN	OCT 070000000000
00072	+233000000000	MAX	OCT 233000000000
00073	+202537532534		DEC 2.7474774195
00074	+201461055415		DEC 1.1917535926
00075	+200447464721		DEC .57735026919
00076	+176551074172	A	DEC .17632698071
00077	+177714301134		DEC .44958721409
00100	+176617307170		DEC .19501422424
00101	+175602761366		DEC .94475498595E-1
00102	+173730570600	B	DEC .288535059E-1
00103	+201546070234		DEC 1.398867082
00104	+177625431617		DEC .39604526598
00105	+176676654157		DEC .21818181818
00106	+176531427747		DEC .1687240152
00107	+000000000000	N	DEC 0
00110	+177545343022		DEC .3490658504
00111	+200545343022		DEC .6981317008
00112	+201414052216		DEC 1.047197551
00113	+201545343022		DEC 1.396263402
00114	+174642612432	C1	DEC .051119459
00115	+170543147755	C2	DEC .00270998425
00116	+176673545053	C3	DEC .21664913599
00117	+176517101123	L	DEC .16363636363
00120	+201622077325	PIOV2	DEC 1.57079633
00121	0 00000 0 00000	I1	
00122	0 00000 0 00000	I4	
00123	+200000000000	CHAR	OCT 200000000000
77777	X	EQU	-1
77776	T	EQU	-2
77775	SQ	EQU	-3
00000		END	0

IF ARGUMENT NEGATIVE, SET RETURN NEGATIVE  
ARRANGE TO SET RETURN NEGATIVE

CONSTANTS

F2ATN055  
F2ATN056  
F2ATN057  
F2ATN058  
F2ATN059  
F2ATN060  
F2ATN061  
F2ATN062  
F2ATN063  
F2ATN064  
F2ATN065  
F2ATN066  
F2ATN067  
F2ATN068  
F2ATN069  
F2ATN070  
F2ATN071  
F2ATN072  
F2ATN073  
F2ATN074  
F2ATN075  
F2ATN076  
F2ATN077  
F2ATN078  
F2ATN079  
F2ATN080  
F2ATN081  
F2ATN082  
F2ATN083  
F2ATN084  
F2ATN085  
F2ATN086  
F2ATN087  
F2ATN088  
F2ATN089  
F2ATN090  
F2ATN091  
F2ATN092  
F2ATN093

ERASABLES

1	REL	00000	ORG 0	F2TNH001	F2TNH002
1			FLOATING POINT HYPERBOLIC TANGENT SUBROUTINE, FORTRAN VERSION		F2TNH003
	00000	0 60100 0 77776	TANH STO F		F2TNH004
	00001	0 76000 0 00003	SSP		F2TNH005
	00002	0 40200 0 00115	SUB MIN		F2TNH006
	00003	0 12000 0 00006	TPL T5		F2TNH007
	00004	0 50000 0 77776	CLA F	TEST IF ARGUMENT LESS THAN .00034	F2TNH008
	00005	0 02000 4 00001	TRA 1,4	IF SO LET TANH X EQUAL X	F2TNH009
	00006	0 40200 0 00114	T5 SUB MAX	TEST IF ARGUMENT LARGER THAN 12	F2TNH010
	00007	-0 12000 0 00012	TM1 T6		F2TNH011
	00010	0 50000 0 00120	CLA CH	IF SO LET TANH X EQUAL ONE	F2TNH012
	00011	0 02000 4 00001	TRA 1,4		F2TNH013
	00012	0 50000 0 77776	T6 CLA F		F2TNH014
	00013	0 76500 0 00033	LRS 27		F2TNH015
	00014	-0 76000 0 00003	SSM		F2TNH016
	00015	0 40000 0 00117	ADD CHAR	CONVERT TO FIXED POINT	F2TNH017
	00016	0 62100 0 00020	STA SH1		F2TNH018
	00017	0 20000 0 00116	MPY LOGE	X TIMES LOG E BASE 2	F2TNH019
A	00020	0 76500 0 00000	SH1 LRS	SEPARATE INTEGER AND FRACTION	F2TNH020
	00021	0 76700 0 00033	ALS 27		F2TNH021
	00022	0 60100 0 77777	STO M		F2TNH022
	00023	0 76300 0 00002	LLS 2		F2TNH023
	00024	0 10000 0 00071	TZE T2	IF ARGUMENT LESS THAN .25 TRANSFER	F2TNH024
	00025	0 76500 0 00006	LRS 6	IF GREATER COMPUTE E TO THE X	F2TNH025
	00026	-0 60000 0 77776	STQ F		F2TNH026
	00027	0 20000 0 77776	MPY F	COMPUTE FRACTION SQUARED	F2TNH027
	00030	0 60100 0 77775	STO SQ	COMPUTE CONTINUED FRACTION	F2TNH028
	00031	0 40000 0 00121	ADD A	8,27 SCALING	F2TNH029
	00032	0 60100 0 77774	STO T	8,27	F2TNH030
	00033	0 50000 0 00122	CLA B	12,23	F2TNH031
	00034	0 22100 0 77774	DVP T	8,27 4,31	F2TNH032
	00035	-0 60000 0 77774	STQ T	4,31	F2TNH033
	00036	0 56000 0 77775	LDQ SQ	8,27	F2TNH034
	00037	0 20000 0 00123	MPY C	00,35 8,27	F2TNH035
	00040	0 76300 0 00004	LLS 4	4,31	F2TNH036
	00041	0 40200 0 77774	SUB T	4,31	F2TNH037
	00042	0 40000 0 00124	ADD D	4,31	F2TNH038
	00043	0 40200 0 77776	SUB F	4,31	F2TNH039
	00044	0 60100 0 77774	STO T	4,31	F2TNH040
	00045	0 50000 0 77776	CLA F	5,31 NUMERATOR EQUALS 2F	F2TNH041
	00046	0 22100 0 77774	DVP T		F2TNH042
	00047	-0 60000 0 77774	STQ T		F2TNH043
	00050	0 50000 0 77774	CLA T		F2TNH044
	00051	0 76500 0 00010	LRS 8		F2TNH045
	00052	0 40000 0 00120	ADD CH	ADD ONE AND CONVERT TO FLOATING POINT	F2TNH046
	00053	0 40000 0 77777	T1 ADD M		F2TNH047
	00054	0 60100 0 77777	STO M	COMPUTE TANH X FROM E TO THE X	F2TNH048
	00055	0 50000 0 00120	CLA CH		F2TNH049
	00056	0 24100 0 77777	FDP M		F2TNH050
	00057	-0 60000 0 77776	STQ F		F2TNH051
	00060	0 50000 0 77777	CLA M		F2TNH052
	00061	0 30000 0 77776	FAD F		F2TNH053
	00062	0 60100 0 77774	STO T		F2TNH054

00063 0 50000 0 77777  
 00064 0 30200 0 77776  
 00065 0 24100 0 77774 T10  
 00066 -0 60000 0 77774  
 00067 0 50000 0 77774  
 00070 0 02000 4 00001  
 00071 0 56000 0 77776 T2  
 00072 0 26000 0 00130  
 00073 0 60100 0 77776  
 00074 0 56000 0 77776  
 00075 0 26000 0 77776  
 00076 0 60100 0 77775  
 00077 0 30000 0 00127  
 00100 0 60100 0 77774  
 00101 0 50000 0 00126  
 00102 0 24100 0 77774  
 00103 -0 60000 0 77774  
 00104 0 50000 0 77774  
 00105 0 30000 0 00125  
 00106 0 76500 0 00043  
 00107 0 26000 0 77775  
 00110 0 30000 0 00130  
 00111 0 60100 0 77774  
 00112 0 50000 0 77776  
 00113 0 02000 0 00065

CLA M  
 FSB F  
 FDP T  
 STQ T  
 CLA T  
 TRA 1,4  
 LDQ F  
 FMP 4LOGE  
 STO F  
 LDQ F  
 FMP F  
 STO SQ  
 FAD D1  
 STO T  
 CLA C1  
 FDP T  
 STQ T  
 CLA T  
 FAD B1  
 LRS 35  
 FMP SQ  
 FAD 4LOGE  
 STO T  
 CLA F  
 TRA T10

RETURN  
 COMPUTE TANH 4LOGE IF X SMALL  
 COMPUTE X TIMES 4LOGE

COMPUTE CONTINUED FRACTION

00114 +017000000000  
 00115 +165544410070  
 00116 +270524354513  
 00117 +000000000242  
 00120 +201400000000  
 00121 +127325604305  
 00122 +046477071523  
 00123 +010676467774  
 00124 +237214030720  
 00125 +173433723377  
 00126 +204704333566  
 00127 +211535527021  
 00130 +203561250731

MAX OCT 017000000000  
 MIN DEC .00034  
 LOGE DEC 1.442695040981  
 CHAR OCT 242  
 CH OCT 201400000000  
 A DEC 87.41749720288  
 B DEC 617.9722695812  
 C DEC .0346573590380  
 D DEC 9.954595782184  
 B1 DEC .01732867951  
 C1 DEC 14.1384114018  
 D1 DEC 349.6699888  
 4LOGE DEC 5.7707801636

CONSTANTS

77777 M EQU -1  
 77776 F EQU -2  
 77775 SQ EQU -3  
 77774 T EQU -4  
 00000 END 0

ERASABLES

F2TNH055  
 F2TNH056  
 F2TNH057  
 F2TNH058  
 F2TNH059  
 F2TNH060  
 F2TNH061  
 F2TNH062  
 F2TNH063  
 F2TNH064  
 F2TNH065  
 F2TNH066  
 F2TNH067  
 F2TNH068  
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 F2TNH096  
 F2TNH097  
 F2TNH098  
 F2TNH099

1  
1

REM	FNET2	REVISED FORTRAN EDITING PROGRAM	EDT 0001
		FNET2	REVISED FORTRAN EDITING PROGRAM
00040	0 77200 0 00201	ORG 32	REWIND
00041	0 77200 0 00205	REW 1	TAPES
00042	-0 50000 0 00162	REW 5	INITIALISE THIS CARD
00043	0 60200 0 00163	CAL IDEOF	TO END FILE
00044	0 07400 4 00166	SLW THISCD	TSX TO TRANSCRIBE SPECIAL FIRST RCD
00045	-0 50000 0 00163	TSX ONE2CS,4	MAIN LOOP REENTRY
00046	0 76700 0 00003	REENTR CAL THISCD	MOVE THIS CARD
00047	0 60200 0 00164	ALS 3	INTO LAST CARD
00050	0 76200 0 00321	SLW LASTCD	READ
00051	-0 53400 1 00161	RCD	THE NEXT CARD
00052	0 70000 1 00010	LXD ZERO14,1	INTO
00053	1 77777 1 00052	CPY CDBUF,1	CARD BUFFER
00054	0 00000 0 00054	TXI A1,1,-1	FALSE END OF FILE IN READING CARD
00055	-0 50000 0 00010	A2 HTR A2	TEST
00056	0 76000 0 00006	CAL CDBUF	
00057	0 62200 0 00063	COM	
00060	-0 50000 0 00010	STD A4	CHECK
00061	-0 53400 1 00161	CAL CDBUF	
00062	1 77777 1 00063	LXD ZERO14,1	
00063	-3 00063 1 00066	TXI A4,1,-1	SUM
00064	0 36100 1 00011	TXL A5,1,*	
00065	0 02000 0 00062	ACL CDBUF+1,1	
00066	0 76000 0 00006	TRA A3	
00067	0 36100 0 00011	COM	
00070	0 76000 0 00006	ACL CDBUF+1	
00071	0 10000 0 00073	COM	
00072	0 42000 0 00000	TZE A6	CHECK SUM ERROR IN READING CARD
00073	-0 50000 0 00010	HPR	SET UP
00074	0 77100 0 00041	CAL CDBUF	THIS CARD
00075	0 62100 0 00163	ARS 33	AND
00076	-0 50100 0 00164	STA THISCD	SITUATION
00077	0 60200 0 00165	ORA LASTCD	WORD
00100	0 53400 1 00161	SLW SITWD	TABLE SEARCH
00101	-0 50000 1 00161	LXA ZERO14,1	
00102	0 76500 0 00022	CAL TABLE+14,1	FOR
00103	0 34000 0 00165	LRS 18	SITUATION
00104	0 02000 0 00106	CAS SITWD	
00105	0 02000 0 00110	TRA A8	
00106	2 00001 1 00101	TRA A9	
00107	0 00000 0 00107	TIX A7,1,1	SEARCH FAILED. ILLEGAL SITUATION.
00110	0 76300 0 00022	ILLEGL HTR ILLEGL	
00111	0 62100 0 00112	A9 LLS 18	
00112	0 02000 0 00112	A10 STA A10	
		TRA *	
THERE FOLLOW THE 8 POSSIBLE SITUATION SUBROUTINES			
00113	0 07400 4 00210	EOFEND TSX LB,4	SEQUENCE EOF-END
00114	0 07400 4 00214	EOFMR TSX SAVE,4	SEQUENCE EOF-MR
00115	0 07400 4 00225	TSX CLEAR,4	
00116	0 07400 4 00233	TSX READ,4	

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00117	0	02000	0	00045	TRA REENTR				EDT 0054
00120	0	07400	4	00214	TSX SAVE,4	EOFNR	SEQUENCE EOF-NR		EDT 0055
00121	0	07400	4	00225	TSX CLEAR,4				EDT 0056
00122	0	02000	0	00045	TRA REENTR				EDT 0057
00123	0	07400	4	00302	TSX WRITE,4	PRGEND	SEQUENCE PROG-END		EDT 0058
00124	0	07400	4	00210	TSX LB,4		MR-END		EDT 0059
00125	0	07400	4	00302	TSX WRITE,4	PRGEOF	SEQUENCE PROG-EOF		EDT 0060
00126	0	77000	0	00221	WEF 145		MR-EOF		EDT 0061
00127	0	02000	0	00045	TRA REENTR				EDT 0062
00130	0	07400	4	00330	TSX MOVE,4	PRGPRG	SEQUENCE PROG-PROG		EDT 0063
00131	0	02000	0	00045	TRA REENTR		MR-PROG, NR-PROG		EDT 0064
00132	0	07400	4	00302	TSX WRITE,4	PRGMR	SEQUENCE PROG-MR		EDT 0065
00133	0	07400	4	00214	TSX SAVE,4		MR-MR		EDT 0066
00134	0	07400	4	00225	TSX CLEAR,4				EDT 0067
00135	0	07400	4	00233	TSX READ,4				EDT 0068
00136	0	02000	0	00045	TRA REENTR				EDT 0069
00137	0	07400	4	00302	TSX WRITE,4	PRGNR	SEQUENCE PROG-NR		EDT 0070
00140	0	07400	4	00214	TSX SAVE,4		MR-NR		EDT 0071
00141	0	07400	4	00225	TSX CLEAR,4				EDT 0072
00142	0	02000	0	00045	TRA REENTR				EDT 0073
00143	0	00047	0	00113	EOFEND,0,39	TABLE	TABLE OF SITUATIONS		EDT 0074
00144	0	00041	0	00114	EOFMR,0,33				EDT 0075
00145	0	00042	0	00120	EOFNR,0,34				EDT 0076
00146	0	00007	0	00123	PRGEND,0,7				EDT 0077
00147	0	00004	0	00125	PRGEOF,0,4				EDT 0078
00150	0	00000	0	00130	PRGPRG,0,0				EDT 0079
00151	0	00001	0	00132	PRGMR,0,1				EDT 0080
00152	0	00002	0	00137	PRGNR,0,2				EDT 0081
00153	0	00017	0	00123	PRGEND,0,15				EDT 0082
00154	0	00014	0	00125	PRGEOF,0,12				EDT 0083
00155	0	00010	0	00130	PRGPRG,0,8				EDT 0084
00156	0	00011	0	00132	PRGMR,0,9				EDT 0085
00157	0	00012	0	00137	PRGNR,0,10				EDT 0086
00160	0	00020	0	00130	PRGPRG,0,16				EDT 0087
00161	0	00000	0	00016	ZERO14				EDT 0088
00162	0	00000	0	00004	IDEOF				EDT 0089
00163	0	00000	0	00000	THISCD				EDT 0090
00164	0	00000	0	00000	LASTCD				EDT 0091
00165	0	00000	0	00000	SITWD				EDT 0092
				00010	CDBUF	SYN 8			EDT 0093
							THERE FOLLOW THE 7 SUBROUTINES		EDT 0094
							ONE2CS, LB, SAVE, CLEAR, READ, WRITE, MOVE		EDT 0095
00166	-0	76000	0	00012	ONE2CS	RTT	TRANSCRIBES		EDT 0096
00167	0	76100	0	00000		NOP	SPECIAL		EDT 0097
00170	0	76200	0	00225		RTB 5	1ST RECORD		EDT 0098
00171	-0	53400	1	00161		LXD ZERO14,1			EDT 0099
00172	0	53400	2	00207		LXA ZEROTW,2			
00173	0	76200	0	00321		RCD			
00174	0	70000	1	00353	CS1	CPY MAINBF,1			
00175	1	77777	1	00174		TXI CS1,1,-1			
00176	0	00000	0	00176		HTR *			
00177	2	00001	2	00173		TIX CS1-1,2,1			
00200	-0	53400	1	00161		LXD ZERO14,1			

00201	0	76600	0	00221		WTB	1
00202	0	70000	1	00353	CS2	CPY	MAINBF,1
00203	1	77777	1	00204		TXI	CS3,1,-1
00204	3	77745	1	00202	CS3	TXH	CS2,1,-27
00205	0	76600	0	00333		IOD	
00206	0	02000	4	00001		TRA	1,4
00207	0	00000	0	00002	ZEROTW		2
00210	0	76200	0	00321	LB	RCD	
00211	0	70000	0	00000		CPY	0
00212	0	70000	0	00001		CPY	1
00213	0	02000	0	00000		TRA	0
00214	-0	50000	0	00012	SAVE	CAL	CDBUF+2
00215	0	60200	0	00222		SLW	EIGHTL
00216	0	62100	0	00224		STA	NEWBEG
00217	-0	50000	0	00013		CAL	CDBUF+3
00220	0	60200	0	00223		SLW	EIGHTR
00221	0	02000	4	00001		TRA	1,4
00222	0	00000	0	00000	EIGHTL		
00223	0	00000	0	00000	EIGHTR		
00224	0	00000	0	00000	NEWBEG		
00225	-0	75400	0	00000	CLEAR	PXD	0,0
00226	0	53400	1	00232		LXA	BUFSIZ,1
00227	0	60200	1	00000	CL1	SLW	0,1
00230	2	00001	1	00227		TIX	CL1,1,1
00231	0	02000	4	00001		TRA	1,4
00232	0	00000	0	77425	BUFSIZ		-MAINBF
00233	-0	76000	0	00012	READ	RTT	
00234	0	76100	0	00000		NOP	
00235	0	76200	0	00225		RTB	5
00236	-0	75400	0	00000		PXD	0,0
00237	-0	53400	1	00161		LXD	ZERO14,1
00240	0	70000	0	00277		CPY	CHKSUM
00241	0	02000	0	00243		TRA	RD1
00242	0	02000	0	00233		TRA	READ
00243	-0	70000	0	00300	RD1	CAD	FSTWD
00244	-0	32000	0	00301		ANA	ADDMK
00245	0	40200	0	00224		SUB	NEWBEG
00246	-0	12000	0	00267		TMI	RD6
00247	0	76000	0	00006		COM	
00250	0	73400	1	00000	RD2	PAX	0,1
00251	-0	50000	0	00300		CAL	FSTWD
00252	-3	00352	1	00271	RD3	TXL	RD7,1,MAINBF-1
00253	-0	70000	1	00352		CAD	MAINBF-1,1
00254	1	77777	1	00252	RD4	TXI	RD3,1,-1
00255	0	00000	0	00001	L1	HTR	1
00256	-0	77300	0	00377	RD5	RQL	255
00257	-0	77300	0	00377		RQL	255
00260	-0	76000	0	00012		RTT	
00261	0	02000	0	00275		TRA	RD8
00262	0	76000	0	00006		COM	

PRESSES LOAD CARDS BUTTON

SAVES CONTROL INFORMATION  
FROM MR OR NR CARD

CLEARs MAIN BUFFER

READS RECORD  
FROM  
MASTER TAPE  
INTO MAIN BUFFER

FALSE EOF IN READING MASTER TAPE

EDT 0124  
EDT 0125  
EDT 0126  
EDT 0127  
EDT 0128  
EDT 0129  
EDT 0130  
EDT 0131  
EDT 0132  
EDT 0133  
EDT 0134  
EDT 0135  
EDT 0136  
EDT 0137  
EDT 0138  
EDT 0139  
EDT 0140  
EDT 0141  
EDT 0142  
EDT 0143  
EDT 0144  
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EDT 0146  
EDT 0147  
EDT 0148  
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EDT 0152  
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EDT 0160  
EDT 0161  
EDT 0162  
EDT 0163  
EDT 0164  
EDT 0165  
EDT 0166  
EDT 0167  
EDT 0168  
EDT 0169  
EDT 0170

00263	0	36100	0	00277	ACL	CHKSUM
00264	0	76000	0	00006	COM	
00265	-0	10000	0	00275	TNZ	RD8
00266	0	02000	4	00001	TRA	1,4
00267	0	40000	0	00255	ADD	L1
00270	0	02000	0	00250	TRA	RD2
00271	-0	70000	0	00000	CAD	0
00272	0	02000	0	00254	TRA	RD4
00273	0	02000	0	00255	TRA	L1
00274	0	02000	0	00256	TRA	RD5
00275	0	76400	0	00205	BST	5
00276	0	00000	0	00233	HTR	READ
00277	0	00000	0	00000	CHKSUM	
00300	0	00000	0	00000	FSTWD	
00301	0	00000	0	77777	ADDMK	-1
00302	0	50000	0	00223	WRITE	CLA EIGHTR
00303	0	40200	0	00224	SUB	NEWBEG
00304	-0	12000	4	00001	TMI	1,4
00305	0	76700	0	00022	ALS	18
00306	0	76000	0	00006	COM	
00307	0	62200	0	00315	STD	WR2
00310	0	62200	0	00324	STD	WR4
00311	-0	53400	3	00161	LXD	ZERO14,3
00312	-0	50000	0	00222	CAL	EIGHTL
00313	0	36100	1	00353	WR1	ACL MAINBF,1
00314	1	77777	1	00315	TXI	WR2,1,-1
00315	3	00315	1	00313	WR2	TXH WR1,1,*
00316	0	60200	0	00277	SLW	CHKSUM
00317	0	76600	0	00221	WTB	1
00320	0	70000	0	00277	CPY	CHKSUM
00321	0	70000	0	00222	CPY	EIGHTL
00322	0	70000	2	00353	WR3	CPY MAINBF,2
00323	1	77777	2	00324	TXI	WR4,2,-1
00324	3	00324	2	00326	WR4	TXH WR5,2,*
00325	0	02000	4	00001	TRA	1,4
00326	3	00353	2	00322	WR5	TXH WR3,2,MAINBF
00327	0	00000	4	00001	HTR	1,4
00330	-0	50000	0	00010	MOVE	CAL CDBUF
00331	0	76000	0	00006	COM	
00332	0	62200	0	00343	STD	MV3
00333	-0	53400	1	00161	LXD	ZERO14,1
00334	-0	50000	0	00010	CAL	CDBUF
00335	-0	32000	0	00301	ANA	ADDMK
00336	0	40200	0	00224	SUB	NEWBEG
00337	-0	12000	0	00350	TMI	MV5
00340	0	76000	0	00006	COM	
00341	0	73400	2	00000	MV1	PAX 0,2
00342	1	77777	1	00343	MV2	TXI MV3,1,-1
00343	-3	00343	1	00352	MV3	TXL MV6,1,*
00344	-0	50000	1	00011	CAL	CDBUF+1,1
00345	-3	00352	2	00347	TXL	MV4,2,MAINBF-1
00346	0	60200	2	00352	SLW	MAINBF-1,2

ERROR IN READING MASTER TAPE

WRITES RECORD FROM MAIN BUFFER  
ONTO SECONDARY TAPE

TRYING TO WRITE TOO LONG A RECORD

MOVES A PROGRAM CARD FROM  
THE CARD BUFFER INTO THE  
CORRECT PART OF THE MAIN BUFFER

EDT 0171  
EDT 0172  
EDT 0173  
EDT 0174  
EDT 0175  
EDT 0176  
EDT 0177  
EDT 0178  
EDT 0179  
EDT 0180  
EDT 0181  
EDT 0182  
EDT 0183  
EDT 0184  
EDT 0185  
EDT 0186  
EDT 0187  
EDT 0188  
EDT 0189  
EDT 0190  
EDT 0191  
EDT 0192  
EDT 0193  
EDT 0194  
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EDT 0201  
EDT 0202  
EDT 0203  
EDT 0204  
EDT 0205  
EDT 0206  
EDT 0207  
EDT 0208  
EDT 0209  
EDT 0210  
EDT 0211  
EDT 0212  
EDT 0213  
EDT 0214  
EDT 0215  
EDT 0216  
EDT 0217  
EDT 0218  
EDT 0219  
EDT 0220  
EDT 0221  
EDT 0222  
EDT 0223  
EDT 0224



00347 1 77777 2 00342 MV4 TXI MV2,2,-1  
00350 0 40000 0 00255 MV5 ADD L1  
00351 0 02000 0 00341 TRA MV1  
00352 0 02000 4 00001 MV6 TRA 1,4  
  
00353 0 00000 0 00000 MAINBF  
00040 END 32

MAIN BUFFER STARTS HERE

EDT 0225  
EDT 0226  
EDT 0227  
EDT 0228  
EDT 0229  
EDT 0230  
EDT 0231

1  
1

	ORG 24	00030	ORG 24
00030	0 53400 3 00173	START	LXA L(0),3
00031	0 60000 0 00200		STZ ERASE
00032	0 76200 0 00321	RCD	RCD
00033	-0 70000 0 00174		CAD 9L
00034	0 02000 0 00036		TRA CPY9R
00035	0 02000 0 00160		TRA EXIT
00036	0 70000 0 00175	CPY9R	CPY 9R
00037	0 50000 0 00174		CLA 9L
00040	0 10000 0 00160		TZE EXIT
00041	0 76000 0 00006		COM
00042	-0 73400 4 00000		PDX 0,4
00043	1 00001 4 00044		TXI CPY9R+6,4,1
00044	-3 77700 4 00164		TXL PASSGL,4,-64
00045	0 50000 0 00174		CLA 9L
00046	0 76700 0 00001		ALS 1
00047	-0 76000 0 00001		PBT
00050	0 02000 0 00071		TRA BINARY CARD
00051	1 77776 4 00053		TXI CPAREL-2,4,-2
00052	-0 63400 4 00057		SXD TXHREL,4
00053	-0 75400 0 00000		PXD
00054	0 60000 0 00200		STZ ERASE
00055	-0 70000 2 00202	CPAREL	CAD RELREG,2
00056	1 77777 2 00057		TXI TXHREL,2,-1
00057	3 00057 2 00055	TXHREL	TXH CPAREL,2,*
00060	0 07400 4 00121		TSX CHSTST,4
00061	0 76600 0 00221		WTB 1
00062	-3 00000 1 00065		TXL TSXREL,1,0
00063	0 07400 4 00141		TSX WRBIN,4
00064	0 76600 0 00221		WTB 1
00065	0 07400 4 00132	TSXREL	TSX WRREL,4
00066	0 60000 0 00176		STZ 9LB,0,STZ
00067	0 60000 0 00177		STZ 9RB,0,STZ
00070	0 02000 0 00032		TRA RCD
00071	-0 75400 0 00000	BINARY	PXD
00072	-0 70000 1 00230	CPABIN	CAD BINREG,1
00073	1 77777 1 00074		TXI TXHBIN-1,1,-1
00074	1 00001 4 00075		TXI TXHBIN,4,1
00075	3 00000 4 00072	TXHBIN	TXH CPABIN,4,0
00076	0 07400 4 00121		TSX CHSTST,4
00077	0 50000 0 00174		CLA 9L
00100	0 40000 0 00176		ADD 9LB
00101	0 60100 0 00176		STO 9LB
00102	0 50000 0 00200		CLA ERASE
00103	0 10000 0 00116		TZE CHER
00104	0 50000 0 00175		CLA 9R
00105	-0 12000 0 00110		TMI CHSIGN
00106	0 36100 0 00201		ACL L(1)
00107	0 02000 0 00111		TRA NORM
00110	0 76000 0 00003	CHSIGN	SSP
00111	0 60200 0 00175	NORM	SLW 9R
00112	-0 50000 0 00175		CAL 9R
00113	0 36100 0 00177		ACL 9RB

PERMANENT LIBRARIAN ENTRY POINT

EOF

T

T

00114	0	60200	0	00177	SLW	9RB
00115	0	02000	0	00032	TRA	RCD
00116	0	50000	0	00201	CHER	CLA L(1)
00117	0	60100	0	00200		STO ERASE
00120	0	02000	0	00112		TRA NORM+1
00121	0	36100	0	00174	CHSTST	ACL 9L
00122	0	60200	0	00172		SLW CHS
00123	0	76600	0	00333		IOD
00124	0	76600	0	00333		IOD
00125	0	50000	0	00175		CLA 9R
00126	0	34000	0	00172		CAS CHS
00127	0	00000	4	00001		HTR 1,4
00130	0	02000	4	00001		TRA 1,4
00131	0	02000	0	00127		TRA WRREL-3
00132	0	50000	0	00171	WRREL	CLA L(REL)
00133	0	62100	0	00151		STA CPY
00134	-0	63400	2	00153		SXD CPY+2,2
00135	0	70000	0	00174		CPY 9L
00136	0	53400	2	00173		LXA L(0),2
00137	0	70000	0	00175		CPY 9R
00140	-3	00000	0	00147	RETURN	TXL XR,0
00141	0	50000	0	00170	WRBIN	CLA L(BIN)
00142	0	62100	0	00151		STA CPY
00143	0	70000	0	00176		CPY 9LB
00144	-0	63400	1	00153		SXD CPY+2,1
00145	0	53400	1	00173		LXA L(0),1
00146	0	70000	0	00177		CPY 9RB
00147	-0	63400	4	00140	XR	SXD RETURN,4
00150	0	53400	4	00173		LXA L(0),4
00151	0	70000	4	00151	CPY	CPY *,4
00152	1	77777	4	00153		TXI CPY+2,4,-1
00153	3	00153	4	00151		TXH CPY,4,*
00154	-0	53400	4	00140		LXD RETURN,4
00155	0	76600	0	00333		IOD
00156	0	76600	0	00333		IOD
00157	0	02000	4	00001		TRA 1,4
00160	0	76200	0	00321	EXIT	RCD
00161	0	70000	0	00000		CPY 0
00162	0	70000	0	00001		CPY 1
00163	0	02000	0	00000		TRA 0
00164	-0	53400	4	00167	PASSGL	LXD PASSGL+3,4
00165	0	76200	0	00321		RCD
00166	2	00001	4	00165		TIX PASSGL+1,4,1
00167	-3	00016	0	00030		TXL RCD-2,0,14
00170	0	00000	0	00230	L(BIN)	BINREG
00171	0	00000	0	00202	L(REL)	RELREG
00172	0	00000	0	00000	CHS	
00173	0	00000	0	00000	L(0)	
00174	0	00000	0	00000	9L	
00175	0	00000	0	00000	9R	
00176	0	00000	0	00000	9LB	
00177	0	00000	0	00000	9RB	
00200	0	00000	0	00000	ERASE	HTR 0
00201	+377777777777			L(1)	OCT	377777777777

CARD READING ERROR

BY-PASS  
GENERAL  
LIBRARIAN  
G.L. CARD COUNT

D

00202 RELREG BSS 22  
00230 BINREG BSS 1  
60000 STZ EQU 24576  
00030 END START

0.48

1  
1

REM GENERAL LIBRARIAN

GLIB2  
GENERAL LIBRARIAN

GLIB2

	00030				ORG 24		GENERAL LIBRARIAN	
	00030	0	77200	0	00225	DUP000	REW SOURCE	GENERAL LIBRARIAN
	00031	0	77200	0	00221		REW OBJECT	
	00032	-0	76000	0	00012		RTT	TURN OFF RTT TRIGGER
ATD	00033	3	00000	0	00000		TXH	
	00034	-0	53400	7	00040		LXD DUP020,7	INITIALIZE INDEX REGISTERS TO 27
	00035	0	76200	0	00225		RDS SOURCE	READ 1-CS FROM SOURCE
	00036	0	70000	1	00507	DUP010	CPY RECORD+27,1	
	00037	1	77777	1	00036		TXI DUP010,1,-1	
	00040	0	00033	0	00000	DUP020	HTR 0,0,27	MACHINE ERROR
	00041	0	76600	0	00333		IOD	EOR-DELAY
	00042	-0	76000	0	00012		RTT	
	00043	0	00000	0	00030		HTR DUP000	RTT ERROR-- TRY AGAIN
	00044	0	76600	0	00221		WRS OBJECT	WRITE 1-CS ONTO OBJECT
	00045	0	70000	2	00507	DUP030	CPY RECORD+27,2	
	00046	2	00001	2	00045		TIX DUP030,2,1	
	00047	0	76600	0	00333		IOD	
	00050	-0	76000	0	00012		RTT	TURN OFF RTT TRIGGER
	00051	3	00000	0	00156	DUP031	TXH DUP170,0,0	
	00052	0	76400	0	00221		BST OBJECT	
	00053	0	76200	0	00221		RDS OBJECT	READ BACK 1-CS FROM OBJECT
	00054	0	70000	0	00453	DUP040	CPY DUMMY	
	00055	0	02000	0	00060		TRA DUP050	
A	00056	0	00000	0	00000		HTR	
	00057	0	02000	0	00065		TRA DUP060	EOR
	00060	0	50000	4	00507	DUP050	CLA RECORD+27,4	
	00061	0	34000	0	00453		CAS DUMMY	
	00062	0	00000	0	00030		HTR DUP000	WORD COMP. FAILS-READING
	00063	1	77777	4	00054		TXI DUP040,4,-1	
	00064	0	00000	0	00030		HTR DUP000	FROM OBJECT
	00065	3	00000	4	00427	DUP060	TXH DUP280,4,0	ERROR-INCOMPLETE OBJECT RECORD
	00066	0	76600	0	00333		IOD	
	00067	-0	76000	0	00012		RTT	
	00070	0	00000	0	00030		HTR DUP000	RTT ERROR READING BACK OBJECT 1-CS
	00071	-0	53400	7	00051	DUP070	LXD DUP031,7	INITIALIZE INDEX REG TO 0
T	00072	-0	75400	0	00000		PXD	CLEAR AC
	00073	0	76200	0	00225	DUP071	RDS SOURCE	READ SOURCE 1ST/2ND FILE RECORD
	00074	0	70000	1	00454		CPY RECORD,1	
	00075	1	77777	1	00100		TXI DUP090,1,-1	
	00076	0	02000	0	00144	DUP080	TRA DUP160	EOF
A	00077	0	00000	0	00000		HTR	MACHINE ERROR
	00100	-0	70000	1	00454	DUP090	CAD RECORD,1	
	00101	1	77777	1	00100		TXI DUP090,1,-1	
A	00102	0	00000	0	00000		HTR	MACHINE ERROR
	00103	0	76000	0	00006		COM	EOR
	00104	0	36100	0	00454		ACL RECORD	
	00105	0	76000	0	00006		COM	
	00106	0	10000	0	00110		TZE DUP100	
	00107	0	00000	0	00430		HTR DUP290	CKSM FAILS READING SOURCE 1ST/2ND FILE
	00110	0	76600	0	00333	DUP100	IOD	
	00111	-0	76000	0	00012		RTT	
	00112	0	00000	0	00432		HTR DUP300	RTT ERROR-BST AND TRY AGAIN

	00113	-0	63400	1	00120	SXD	DUP120,1
	00114	-0	63400	1	00137	SXD	DUP150,1
	00115	0	76600	0	00221	WRS	OBJECT
	00116	0	70000	2	00454	DUP110	CPY RECORD,2
	00117	1	77777	2	00120	TXI	DUP120,2,-1
	00120	3	00000	2	00116	DUP120	TXH DUP110,2,**
	00121	0	76600	0	00333	DUP121	IOD
	00122	-0	76000	0	00012	RTT	
ATD	00123	3	00000	0	00000	TXH	
	00124	0	76400	0	00221	BST	OBJECT
	00125	0	76200	0	00221	RDS	OBJECT
	00126	0	70000	0	00453	DUP130	CPY DUMMY
	00127	0	02000	0	00132	TRA	DUP140
A	00130	0	00000	0	00000	HTR	
	00131	0	02000	0	00137	TRA	DUP150
	00132	0	50000	4	00454	DUP140	CLA RECORD,4
	00133	0	34000	0	00453	CAS	DUMMY
	00134	0	00000	0	00434	HTR	DUP310
	00135	1	77777	4	00126	TXI	DUP130,4,-1
	00136	0	00000	0	00434	HTR	DUP310
	00137	3	00000	4	00436	DUP150	TXH DUP320,4,**
	00140	0	76600	0	00333	IOD	
	00141	-0	76000	0	00012	RTT	
	00142	0	00000	0	00434	HTR	DUP310
	00143	0	02000	0	00071	TRA	DUP070
	00144	0	76600	0	00333	DUP160	IOD
	00145	-0	76000	0	00012	RTT	
	00146	0	00000	0	00444	HTR	DUP340
	00147	0	77000	0	00221	WEF	OBJECT
	00150	0	76600	0	00333	IOD	
	00151	-0	76000	0	00012	RTT	
ATD	00152	3	00000	0	00000	TXH	
	00153	0	50000	0	00051	CLA	DUP031
	00154	0	62100	0	00076	STA	DUP080
	00155	0	02000	0	00071	TRA	DUP070
	00156	0	76600	0	00333	DUP170	IOD
	00157	-0	76000	0	00012	RTT	
	00160	0	00000	0	00444	HTR	DUP340
	00161	0	77000	0	00221	WEF	OBJECT
	00162	0	76600	0	00333	DUP171	IOD
	00163	-0	76000	0	00012	RTT	
ATD	00164	3	00000	0	00000	TXH	
	00165	-0	53400	7	00051	DUP180	LXD DUP031,7
T	00166	-0	75400	0	00000	PXD	
	00167	0	76200	0	00225	DUP181	RDS SOURCE
	00170	-0	70000	1	00454	CAD	RECORD,1
	00171	1	77777	1	00174	TXI	DUP190,1,-1
A	00172	0	00000	0	00000	HTR	
A	00173	0	00000	0	00000	HTR	
	00174	0	70000	1	00454	DUP190	CPY RECORD,1
	00175	1	77777	1	00176	TXI	DUP200,1,-1
	00176	-0	70000	1	00454	DUP200	CAD RECORD,1
	00177	1	77777	1	00176	TXI	DUP200,1,-1
A	00200	0	00000	0	00000	HTR	

WRITE OBJECT 1ST/2ND FILE RECORD

TURN OFF RTT TRIGGER

READ BACK OBJECT 1ST/2ND FILE RECORD

MACHINE ERROR  
EOR

COMP. ERROR ON 1ST/2ND FILE RECORD

COMP. ERROR ON 1ST/2ND FILE RECORD.  
ERROR-INCOMPLETE OBJECT RECORD

RTT ERROR-BST AND TRY AGAIN

RTT ERROR - BST TWICE ON SOURCE  
WRITE 1ST EOF

TURN OFF RTT TRIGGER

RTT ERROR- BST TWICE ON SOURCE  
WRITE 2ND EOF

TURN OFF RTT TRIGGER

INITIALIZE INDEX REG TO 0  
CLEAR AC  
READ SOURCE 3RD FILE RECORD

FALSE 3RD FILE EOF MARK.  
MACHINE ERROR  
CPY CKSM INTO RECORD+1

MACHINE ERROR

	00201	0	76100	0	00000	SWITCH	NOP
	00202	0	76000	0	00006		COM
	00203	0	36100	0	00455		ACL RECORD+1
	00204	0	76000	0	00006		COM
	00205	0	10000	0	00207		TZE DUP210
	00206	0	00000	0	00450		HTR DUP350
	00207	0	76600	0	00333	DUP210	IOD
	00210	-0	76000	0	00012		RTT
	00211	0	00000	0	00450		HTR DUP350
	00212	-0	63400	1	00217		SXD DUP230,1
	00213	-0	63400	1	00236		SXD DUP260,1
	00214	0	76600	0	00221		WRS OBJECT
	00215	0	70000	2	00454	DUP220	CPY RECORD,2
	00216	1	77777	2	00217		TXI DUP230,2,-1
	00217	3	00000	2	00215	DUP230	TXH DUP220,2,**
	00220	0	76600	0	00333	DUP231	IOD
	00221	-0	76000	0	00012		RTT
ATD	00222	3	00000	0	00000		TXH
	00223	0	76400	0	00221		BST OBJECT
	00224	0	76200	0	00221		RDS OBJECT
	00225	0	70000	0	00453	DUP240	CPY DUMMY
	00226	0	02000	0	00231		TRA DUP250
A	00227	0	00000	0	00000		HTR
	00230	0	02000	0	00236		TRA DUP260
	00231	0	50000	4	00454	DUP250	CLA RECORD,4
	00232	0	34000	0	00453		CAS DUMMY
	00233	0	00000	0	00452		HTR DUP360
	00234	1	77777	4	00225		TXI DUP240,4,-1
	00235	0	00000	0	00452		HTR DUP360
D	00236	3	00000	4	00454	DUP260	TXH DUP370,4
	00237	0	76600	0	00333		IOD
	00240	-0	76000	0	00012		RTT
	00241	0	00000	0	00452		HTR DUP360
	00242	-0	50000	0	00460		CAL RECORD+4
	00243	0	40200	0	00416		SUB NAME
	00244	-0	10000	0	00165		TNZ DUP180
	00245	-0	50000	0	00425		CAL TRAN
	00246	0	60200	0	00201		SLW SWITCH
	00247	0	02000	0	00165		TRA DUP180
	00250	0	53400	3	00415	EXIT1	LXA L(0),3
	00251	0	60000	0	00423		STZ ERASE
	00252	0	76200	0	00321	RCD	RCD
	00253	-0	70000	0	00417		CAD 9L
	00254	0	02000	0	00256		TRA CPY9R
	00255	0	02000	0	00406		TRA EXIT
	00256	0	70000	0	00420	CPY9R	CPY 9R
	00257	0	50000	0	00417		CLA 9L
	00260	0	10000	0	00406		TZE EXIT
	00261	0	76000	0	00006		COM
	00262	-0	73400	4	00000		PDX 0,4
	00263	1	00001	4	00264		TXI CPY9R+6,4,1
	00264	0	50000	0	00417		CLA 9L
	00265	0	76700	0	00001		ALS 1
	00266	-0	76000	0	00001		PBT

EOR

CKSM FAILS READING SOURCE 3RD FILE

RTT ERROR-BST

WRITE OBJECT 3RD FILE RECORD

TURN OFF RTT TRIGGER

READ BACK OBJECT 3RD FILE RECORD

MACHINE ERROR

EOR

COMP. ERROR ON 3RD FILE

ERROR- INCOMPLETE OBJECT RECORD

EOF

	00267	0	02000	0	00310	TRA	BINARY CARD
	00270	1	77776	4	00272	TXI	CPAREL-2,4,-2
	00271	-0	63400	4	00276	SXD	TXHREL,4
T	00272	-0	75400	0	00000	PXD	
	00273	0	60000	0	00423	STZ	ERASE
	00274	-0	70000	2	00460	CPAREL	CAD RELREG,2
	00275	1	77777	2	00276	TXI	TXHREL,2,-1
	00276	3	00276	2	00274	TXHREL	TXH CPAREL,2,*
	00277	0	07400	4	00340	TSX	CHSTST,4
	00300	0	76600	0	00221	WTB	1
	00301	-3	00000	1	00304	TXL	TSXREL,1,0
	00302	0	07400	4	00360	TSX	WRBIN,4
	00303	0	76600	0	00221	WTB	1
	00304	0	07400	4	00351	TSXREL	TSX WRREL,4
	00305	0	60000	0	00421	STZ	9LB,0,STZ
	00306	0	60000	0	00422	STZ	9RB,0,STZ
	00307	0	02000	0	00252	TRA	RCD
T	00310	-0	75400	0	00000	BINARY	PXD
	00311	-0	70000	1	00506	CPABIN	CAD BINREG,1
	00312	1	77777	1	00313	TXI	TXHBIN-1,1,-1
	00313	1	00001	4	00314	TXI	TXHBIN,4,1
	00314	3	00000	4	00311	TXHBIN	TXH CPABIN,4,0
	00315	0	07400	4	00340	TSX	CHSTST,4
	00316	0	50000	0	00417	CLA	9L
	00317	0	40000	0	00421	ADD	9LB
	00320	0	60100	0	00421	STO	9LB
	00321	0	50000	0	00423	CLA	ERASE
	00322	0	10000	0	00335	TZE	CHER
	00323	0	50000	0	00420	CLA	9R
	00324	-0	12000	0	00327	TMI	CHSIGN
	00325	0	36100	0	00424	ACL	L(1)
	00326	0	02000	0	00330	TRA	NORM
	00327	0	76000	0	00003	CHSIGN	SSP
	00330	0	60200	0	00420	NORM	SLW 9R
	00331	-0	50000	0	00420	CAL	9R
	00332	0	36100	0	00422	ACL	9RB
	00333	0	60200	0	00422	SLW	9RB
	00334	0	02000	0	00252	TRA	RCD
	00335	0	50000	0	00424	CHER	CLA L(1)
	00336	0	60100	0	00423	STO	ERASE
	00337	0	02000	0	00331	TRA	NORM+1
	00340	0	36100	0	00417	CHSTST	ACL 9L
	00341	0	60200	0	00414	SLW	CHS
	00342	0	76600	0	00333	IOD	
	00343	0	76600	0	00333	IOD	
	00344	0	50000	0	00420	CLA	9R
	00345	0	34000	0	00414	CAS	CHS
	00346	0	00000	4	00001	HTR	1,4
	00347	0	02000	4	00001	TRA	1,4
	00350	0	02000	0	00346	TRA	WRREL-3
	00351	0	50000	0	00413	WRREL	CLA L(REL)
	00352	0	62100	0	00370	STA	CPY
	00353	-0	63400	2	00372	SXD	CPY+2,2
	00354	0	70000	0	00417	CPY	9L

CARD READING ERROR



	00355	0	53400	2	00415		LXA	L(0),2
	00356	0	70000	0	00420		CPY	9R
D	00357	-3	00000	0	00366	RETURN	TXL	XR,0
	00360	0	50000	0	00412	WRBIN	CLA	L(BIN)
	00361	0	62100	0	00370		STA	CPY
	00362	0	70000	0	00421		CPY	9LB
	00363	-0	63400	1	00372		SXD	CPY+2,1
	00364	0	53400	1	00415		LXA	L(0),1
	00365	0	70000	0	00422		CPY	9RB
	00366	-0	63400	4	00357	XR	SXD	RETURN,4
	00367	0	53400	4	00415		LXA	L(0),4
	00370	0	70000	4	00370	CPY	CPY	*,4
	00371	1	77777	4	00372		TXI	CPY+2,4,-1
	00372	3	00372	4	00370		TXH	CPY,4,*
	00373	-0	53400	4	00357		LXD	RETURN,4
	00374	0	76600	0	00333		IOD	
	00375	0	76600	0	00333		IOD	
	00376	0	02000	4	00001		TRA	1,4
	00377	0	60200	0	00426	RELBIN	SLW	HOLD
	00400	0	50000	0	00417		CLA	9L
	00401	0	76700	0	00001		ALS	1
	00402	-0	76000	0	00001		PBT	
	00403	0	02000	0	00250		TRA	EXIT1
	00404	-0	50000	0	00426		CAL	HOLD
	00405	0	02000	0	00202		TRA	SWITCH+1
	00406	0	76200	0	00321	EXIT	RCD	
	00407	0	70000	0	00000		CPY	0
	00410	0	70000	0	00001		CPY	1
	00411	0	02000	0	00000		TRA	0
	00412	0	00000	0	00506	L(BIN)	BINREG	
	00413	0	00000	0	00460	L(REL)	RELREG	
	00414	0	00000	0	00000	CHS		
	00415	0	00000	0	00000	L(0)		
	00416	256747740360				NAME	BCD	1EXP(3)
	00417	0	00000	0	00000	9L		
	00420	0	00000	0	00000	9R		
	00421	0	00000	0	00000	9LB		
	00422	0	00000	0	00000	9RB		
	00423	0	00000	0	00000	ERASE	HTR	0
	00424	+37777777777				L(1)	OCT	37777777777
	00425	0	02000	0	00377	TRAN	TRA	RELBIN
	00426	0	00000	0	00000	HOLD		
	00427	0	00000	0	00030	DUP280	HTR	DUP000
	00430	-0	76000	0	00012	DUP290	RTT	
ATD	00431	3	00000	0	00000		TXH	
	00432	0	76400	0	00225	DUP300	BST	SOURCE
	00433	0	02000	0	00071		TRA	DUP070
	00434	-0	53400	4	00051	DUP310	LXD	DUP031,4
	00435	0	02000	0	00121		TRA	DUP121
	00436	0	00000	0	00437	DUP320	HTR	DUP330
	00437	-0	76000	0	00012	DUP330	RTT	
ATD	00440	3	00000	0	00000		TXH	
	00441	0	76400	0	00225		BST	SOURCE
	00442	0	76400	0	00221		BST	OBJECT

RECORD IS THE 1ST CONTROL CARD OF GEN. LIB.  
RETURN TO READING PERMANENT LIB.  
PULL IN FNDE2

00443	0	02000	0	00071	TRA	DUP070
00444	0	76400	0	00225	DUP340	BST SOURCE
00445	0	76400	0	00225		BST SOURCE
00446	0	76200	0	00225		RDS SOURCE
00447	0	02000	0	00073	TRA	DUP071
00450	0	76400	0	00225	DUP350	BST SOURCE
00451	0	02000	0	00162	TRA	DUP171
00452	-0	53400	4	00051	DUP360	LXD DUP031*4
00453	0	02000	0	00220	TRA	DUP231
00454	0	00000	0	00455	DUP370	HTR DUP380
00455	0	76400	0	00225	DUP380	BST SOURCE
00456	0	76400	0	00221		BST OBJECT
00457	0	02000	0	00162	TRA	DUP171
				00460	RELREG	BSS 22
				00506	BINREG	BSS 1
				60000	STZ	EQU 24576
				00225	SOURCE	SYN 149
				00221	OBJECT	SYN 145
				00454	RECORD	SYN 300
				00453	DUMMY	SYN 299
				00030		END 24

1  
1

REM TAPE DUPLICATING PROGRAM F2TCVP  
TAPE DUPLICATING PROGRAM F2TCVP

			00030	ORG 24		
	00030	0	77200	0	00225	DUP000 REW SOURCE
	00031	0	77200	0	00221	REW OBJECT
	00032	-0	76000	0	00012	RTT
ATD	00033	3	00000	0	00000	TXH
	00034	-0	53400	7	00040	LXD DUP020,7
	00035	0	76200	0	00225	RDS SOURCE
	00036	0	70000	1	00507	DUP010 CPY RECORD+27,1
	00037	1	77777	1	00036	TXI DUP010,1,-1
	00040	0	00033	0	00000	DUP020 HTR 0,0,27
	00041	0	76600	0	00333	IOD
	00042	-0	76000	0	00012	RTT
	00043	0	00000	0	00030	HTR DUP000
	00044	0	76600	0	00221	WRS OBJECT
	00045	0	70000	2	00507	DUP030 CPY RECORD+27,2
	00046	2	00001	2	00045	TXI DUP030,2,1
	00047	0	76600	0	00333	IOD
	00050	-0	76000	0	00012	RTT
	00051	3	00000	0	00156	DUP031 TXH DUP170,0,0
	00052	0	76400	0	00221	BST OBJECT
	00053	0	76200	0	00221	RDS OBJECT
	00054	0	70000	0	00453	DUP040 CPY DUMMY
	00055	0	02000	0	00060	TRA DUP050
A	00056	0	00000	0	00000	HTR
	00057	0	02000	0	00065	TRA DUP060
	00060	0	50000	4	00507	DUP050 CLA RECORD+27,4
	00061	0	34000	0	00453	CAS DUMMY
	00062	0	00000	0	00030	HTR DUP000
	00063	1	77777	4	00054	TXI DUP040,4,-1
	00064	0	00000	0	00030	HTR DUP000
	00065	3	00000	4	00321	DUP060 TXH DUP280,4,0
	00066	0	76600	0	00333	IOD
	00067	-0	76000	0	00012	RTT
	00070	0	00000	0	00030	HTR DUP000
	00071	-0	53400	7	00051	DUP070 LXD DUP031,7
T	00072	-0	75400	0	00000	PXD
	00073	0	76200	0	00225	DUP071 RDS SOURCE
	00074	0	70000	1	00454	CPY RECORD,1
	00075	1	77777	1	00100	TXI DUP090,1,-1
	00076	0	02000	0	00144	DUP080 TRA DUP160
A	00077	0	00000	0	00000	HTR
	00100	-0	70000	1	00454	DUP090 CAD RECORD,1
	00101	1	77777	1	00100	TXI DUP090,1,-1
A	00102	0	00000	0	00000	HTR
	00103	0	76000	0	00006	COM
	00104	0	36100	0	00454	ACL RECORD
	00105	0	76000	0	00006	COM
	00106	0	10000	0	00110	TZE DUP100
	00107	0	00000	0	00322	HTR DUP290
	00110	0	76600	0	00333	DUP100 IOD
	00111	-0	76000	0	00012	RTT
	00112	0	00000	0	00324	HTR DUP300

TURN OFF RTT TRIGGER

INITIALIZE INDEX REGISTERS TO 27  
READ 1-CS FROM SOURCE

MACHINE ERROR  
EOR-DELAY

RTT ERROR-- TRY AGAIN  
WRITE 1-CS ONTO OBJECT

TURN OFF RTT TRIGGER

READ BACK 1-CS FROM OBJECT

EOR

WORD COMP. FAILS-READING

FROM OBJECT  
ERROR-INCOMPLETE OBJECT RECORD

RTT ERROR READING BACK OBJECT 1-CS  
INITIALIZE INDEX REG TO 0  
CLEAR AC  
READ SOURCE 1ST/2ND FILE RECORD

EOF  
MACHINE ERROR

MACHINE ERROR  
EOR

CKSM FAILS READING SOURCE 1ST/2ND FILE

RTT ERROR-BST AND TRY AGAIN

985

	00113	-0	63400	1	00120	SXD	DUP120,1	
	00114	-0	63400	1	00137	SXD	DUP150,1	
	00115	0	76600	0	00221	WRS	OBJECT	
	00116	0	70000	2	00454	DUP110	CPY RECORD,2	
	00117	1	77777	2	00120	TXI	DUP120,2,-1	
	00120	3	00000	2	00116	DUP120	TXH DUP110,2,**	
	00121	0	76600	0	00333	DUP121	IOD	
	00122	-0	76000	0	00012	RTT		
ATD	00123	3	00000	0	00000	TXH		
	00124	0	76400	0	00221	BST	OBJECT	
	00125	0	76200	0	00221	RDS	OBJECT	
	00126	0	70000	0	00453	DUP130	CPY DUMMY	
	00127	0	02000	0	00132	TRA	DUP140	
A	00130	0	00000	0	00000	HTR		
	00131	0	02000	0	00137	TRA	DUP150	
	00132	0	50000	4	00454	DUP140	CLA RECORD,4	
	00133	0	34000	0	00453	CAS	DUMMY	
	00134	0	00000	0	00326	HTR	DUP310	
	00135	1	77777	4	00126	TXI	DUP130,4,-1	
	00136	0	00000	0	00326	HTR	DUP310	
	00137	3	00000	4	00330	DUP150	TXH DUP320,4,**	
	00140	0	76600	0	00333	IOD		
	00141	-0	76000	0	00012	RTT		
	00142	0	00300	0	00326	HTR	DUP310	
	00143	0	02000	0	00071	TRA	DUP070	
	00144	0	76600	0	00333	DUP160	IOD	
	00145	-0	76000	0	00012	RTT		
	00146	0	00000	0	00336	HTR	DUP340	
	00147	0	77000	0	00221	WEF	OBJECT	
	00150	0	76600	0	00333	IOD		
	00151	-0	76000	0	00012	RTT		
ATD	00152	3	00000	0	00000	TXH		
	00153	0	50000	0	00051	CLA	DUP031	
	00154	0	62100	0	00076	STA	DUP080	
	00155	0	02000	0	00071	TRA	DUP070	
	00156	0	76600	0	00333	DUP170	IOD	
	00157	-0	76000	0	00012	RTT		
	00160	0	00000	0	00336	HTR	DUP340	
	00161	0	77000	0	00221	WEF	OBJECT	
	00162	0	76600	0	00333	DUP171	IOD	
	00163	-0	76000	0	00012	RTT		
ATD	00164	3	00000	0	00000	TXH		
	00165	-0	53400	7	00051	DUP180	LXD DUP031,7	
T	00166	-0	75400	0	00000	PXD		
	00167	0	76200	0	00225	DUP181	RDS SOURCE	
	00170	-0	70000	1	00454	CAD	RECORD,1	
	00171	1	77777	1	00174	TXI	DUP190,1,-1	
	00172	0	02000	0	00242	TRA	DUP270	
A	00173	0	00000	0	00000	HTR		
	00174	0	70000	1	00454	DUP190	CPY RECORD,1	
	00175	1	77777	1	00176	TXI	DUP200,1,-1	
	00176	-0	70000	1	00454	DUP200	CAD RECORD,1	
	00177	1	77777	1	00176	TXI	DUP200,1,-1	
A	00200	0	00000	0	00000	HTR		

WRITE OBJECT 1ST/2ND FILE RECORD

TURN OFF RTT TRIGGER

READ BACK OBJECT 1ST/2ND FILE RECORD

MACHINE ERROR  
EOR

COMP. ERROR ON 1ST/2ND FILE RECORD

DITTO  
ERROR-INCOMPLETE OBJECT RECORD

RTT ERROR-BST AND TRY AGAIN

RTT ERROR - BST TWICE ON SOURCE  
WRITE 1ST EOF

TURN OFF RTT TRIGGER

RTT ERROR- BST TWICE ON SOURCE  
WRITE 2ND EOF

TURN OFF RTT TRIGGER

INITIALIZE INDEX REG TO 0  
CLEAR AC  
READ SOURCE 3RD FILE RECORD

EOF  
MACHINE ERROR  
CPY CKSM INTO RECORD+1

MACHINE ERROR

	00201	0	76000	0	00006	COM
	00202	0	36100	0	00455	ACL RECORD+1
	00203	0	76000	0	00006	COM
	00204	0	10000	0	00206	TZE DUP210
	00205	0	00000	0	00342	HTR DUP350
	00206	0	76600	0	00333	DUP210 IOD
	00207	-0	76000	0	00012	RTT
	00210	0	00000	0	00342	HTR DUP350
	00211	-0	63400	1	00216	SXD DUP230,1
	00212	-0	63400	1	00235	SXD DUP260,1
	00213	0	76600	0	00221	WRS OBJECT
	00214	0	70000	2	00454	DUP220 CPY RECORD,2
	00215	1	77777	2	00216	TXI DUP230,2,-1
	00216	3	00000	2	00214	DUP230 TXH DUP220,2,**
	00217	0	76600	0	00333	DUP231 IOD
	00220	-0	76000	0	00012	RTT
ATD	00221	3	00000	0	00000	TXH
	00222	0	76400	0	00221	BST OBJECT
	00223	0	76200	0	00221	RDS OBJECT
	00224	0	70000	0	00453	DUP240 CPY DUMMY
	00225	0	02000	0	00230	TRA DUP250
A	00226	0	00000	0	00000	HTR
	00227	0	02000	0	00235	TRA DUP260
	00230	0	50000	4	00454	DUP250 CLA RECORD,4
	00231	0	34000	0	00453	CAS DUMMY
	00232	0	00000	0	00344	HTR DUP360
	00233	1	77777	4	00224	TXI DUP240,4,-1
	00234	0	00000	0	00344	HTR DUP360
D	00235	3	00000	4	00346	DUP260 TXH DUP370,4
	00236	0	76600	0	00333	IOD
	00237	-0	76000	0	00012	RTT
	00240	0	00000	0	00344	HTR DUP360
	00241	0	02000	0	00165	TRA DUP180
	00242	0	76600	0	00333	DUP270 IOD
	00243	-0	76000	0	00012	RTT
	00244	0	00000	0	00352	HTR DUP390
	00245	0	77000	0	00221	WEF OBJECT
	00246	-0	53400	7	00051	FILE40 LXI DUP031,7
T	00247	-0	75400	0	00000	PXD
	00250	0	76200	0	00225	RDS SOURCE
	00251	0	70000	1	00454	FILE41 CPY RECORD,1
	00252	1	77777	1	00251	TXI FILE41,1,-1
	00253	0	02000	0	00310	TRA FILE47
	00254	0	76600	0	00333	IOD
	00255	-0	76000	0	00012	RTT
	00256	0	00000	0	00356	HTR FILE4E1
	00257	-0	63400	1	00264	SXD FILE43,1
	00260	-0	63400	1	00303	SXD FILE46,1
	00261	0	76600	0	00221	WRS OBJECT
	00262	0	70000	2	00454	FILE42 CPY RECORD,2
	00263	1	77777	2	00264	TXI FILE43,2,-1
	00264	3	00000	2	00262	FILE43 TXH FILE42,2,**
	00265	0	76600	0	00333	FILE50 IOD
	00266	-0	76000	0	00012	RTT

EOR

CKSM FAILS READING SOURCE 3RD FILE

RTT ERROR-BST

WRITE OBJECT 3RD FILE RECORD

TURN OFF RTT TRIGGER

READ BACK OBJECT 3RD FILE RECORD

MACHINE ERROR  
EOR

COMP. ERROR ON 3RD FILE

ERROR- INCOMPLETE OBJECT RECORD

RTT ERROR-BST

RTT ERROR - BST TWICE  
WRITE 3RD FILE EOF  
DUPLICATE FILE 4

READ SOURCE FILE 4 RECORD

EOF  
EOR

RTT ERROR - BST AND TRY AGAIN

WRITE OBJECT 4TH FILE RECORD

TURN OFF RTT TRIGGER

ATD	00267	3	00000	0	00000		TXH
	00270	0	76400	0	00221		BST OBJECT
	00271	0	76200	0	00221		RDS OBJECT
	00272	0	70000	0	00453	FILE44	CPY DUMMY
	00273	0	02000	0	00276		TRA FILE45
A	00274	0	00000	0	00000		HTR
	00275	0	02000	0	00303		TRA FILE46
	00276	0	50000	4	00454	FILE45	CLA RECORD,4
	00277	0	34000	0	00453		CAS DUMMY
	00300	0	00000	0	00360		HTR FIL4E2
	00301	1	77777	4	00272		TXI FILE44,4,-1
	00302	0	00000	0	00360		HTR FIL4E2
	00303	3	00000	4	00366	FILE46	TXH FIL4E4,4,**
	00304	0	76600	0	00333		IOD
	00305	-0	76000	0	00012		RTT
	00306	0	00000	0	00360		HTR FIL4E2
	00307	0	02000	0	00246		TRA FILE40
	00310	0	76600	0	00333	FILE47	IOD
	00311	-0	76000	0	00012		RTT
	00312	0	00000	0	00362		HTR FIL4E3
	00313	0	77000	0	00221		WEF OBJECT
	00314	0	77200	0	00225		REW SOURCE
	00315	0	77200	0	00221		REW OBJECT
	00316	-0	76000	0	00012		RTT
ATD	00317	3	00000	0	00000		TXH
A	00320	0	00000	0	00000		HTR
	00321	0	00000	0	00030	DUP280	HTR DUP000
	00322	-0	76000	0	00012	DUP290	RTT
ATD	00323	3	00000	0	00000		TXH
	00324	0	76400	0	00225	DUP300	BST SOURCE
	00325	0	02000	0	00071		TRA DUP070
	00326	-0	53400	4	00051	DUP310	LXD DUP031,4
	00327	0	02000	0	00121		TRA DUP121
	00330	0	00000	0	00331	DUP320	HTR DUP330
	00331	-0	76000	0	00012	DUP330	RTT
ATD	00332	3	00000	0	00000		TXH
	00333	0	76400	0	00225		BST SOURCE
	00334	0	76400	0	00221		BST OBJECT
	00335	0	02000	0	00071		TRA DUP070
	00336	0	76400	0	00225	DUP340	BST SOURCE
	00337	0	76400	0	00225		BST SOURCE
	00340	0	76200	0	00225		RDS SOURCE
	00341	0	02000	0	00073		TRA DUP071
	00342	0	76400	0	00225	DUP350	BST SOURCE
	00343	-0	02000	0	00162		TRA DUP171
	00344	-0	53400	4	00051	DUP360	LXD DUP031,4
	00345	0	02000	0	00217		TRA DUP231
	00346	0	00000	0	00347	DUP370	HTR DUP380
	00347	0	76400	0	00225	DUP380	BST SOURCE
	00350	0	76400	0	00221		BST OBJECT
	00351	0	02000	0	00162		TRA DUP171
	00352	0	76400	0	00225	DUP390	BST SOURCE
	00353	0	76400	0	00225		BST SOURCE
	00354	0	76200	0	00225		RDS SOURCE

READ BACK OBJECT 4TH FILE RECORD

MACHINE ERROR  
EOR

COMP. ERROR ON 4TH FILE RECORD

COMP. ERROR ON 4TH FILE RECORD  
ERROR - INCOMPLETE OBJECT RECORD

RTT ERROR - BST AND TRY AGAIN

RTT ERROR - BST TWICE ON SOURCE  
WRITE 4TH FILE EOF

FINAL STOP.

	00355	0	02000	0	00167		TRA	DUP181
	00356	0	76400	0	00225	FIL4E1	BST	SOURCE
	00357	0	02000	0	00246		TRA	FILE40
	00360	-0	53400	4	00051	FIL4E2	LXD	DUP031,4
	00361	0	02000	0	00265		TRA	FILE50
	00362	0	76400	0	00225	FIL4E3	BST	SOURCE
	00363	0	76400	0	00225		BST	SOURCE
	00364	0	76200	0	00225		RDS	SOURCE
	00365	0	02000	0	00250		TRA	FILE40+2
	00366	0	00000	0	00367	FIL4E4	HTR	FIL4E5
	00367	-0	76000	0	00012	FIL4E5	RTT	
ATD	00370	3	00000	0	00000		TXH	
	00371	0	76400	0	00225		BST	SOURCE
	00372	0	76400	0	00221		BST	OBJECT
	00373	0	02000	0	00246		TRA	FILE40
					00225	SOURCE	SYN	149
					00221	OBJECT	SYN	145
					00454	RECORD	SYN	300
					00453	DUMMY	SYN	299
					00030	END		24

1  
1

REM BINARY AND SYMBOLIC SUBROUTINE LOADER FOR 704 FORTRAN II  
BINARY AND SYMBOLIC SUBROUTINE LOADER FOR 704 FORTRAN II

```

77477 LIST SYN 32575
77452 TABL SYN 32554
77453 TOOMCH SYN LIST-20
00000 ORG 0
00000 0 53400 1 00000 VR LXA 0,1
00001 0 70000 1 00002 SM CPY 2,1
00002 1 77777 1 00001 TXI SM,1,-1
00003 0 00000 1 00000 TG HTR 0,1
00004 -0 76000 0 00007 LTM
00005 0 76200 0 00321 X RCD
00006 0 70000 1 77452 RB CPY LIST-21,1
00007 1 77777 1 00006 LB TXI RB,1,-1
00010 0 00000 0 00000 R
00011 3 77470 1 00005 TXH X,1,-200
00012 -0 53400 1 77715 LXD M,1
00013 -0 63400 1 77715 SXD M,1
00014 0 60000 0 77453 STZ LIST-20
00015 0 76200 0 00321 READ RCD
00016 0 70000 0 00000 CPY VR
00017 0 02000 0 77500 TRA TEST
00020 0 00000 0 00015 HTR READ
00021 0 60000 2 00000 END STZ 0,2
00022 2 00001 2 00021 TIX END,2,1
00023 0 14000 0 00024 TOV PROG
A 00024 0 02000 0 00000 PROG TRA
00025 0 00000 0 00000 T
00026 0 00000 0 00030 S 24
00027 +000000077777 ADDRS OCT 000000077777
77500 77500 ORG LIST+1
77500 0 50000 0 00000 TEST CLA VR
77501 0 70000 0 00001 CPY SM
77502 -0 12000 0 77626 TMI PASS1
77503 0 10000 0 00015 TZE READ
77504 0 60000 0 77777 STZ PRTST
77505 -0 53400 1 00000 LXD VR,1
77506 -3 00037 1 77516 TXL REG,1,31
77507 3 00040 1 00000 TXH 0,1,32
77510 0 62100 0 00025 STA T
77511 0 40000 0 00026 ADD S
77512 0 62100 0 00026 STA S
77513 0 50000 0 00001 CLA SM
77514 0 62100 0 77520 STA U
77515 0 02000 0 00015 TRA READ
77516 0 62100 0 00010 REG STA R
77517 0 77100 0 00017 ARS 15
77520 -0 73400 4 00000 U PDX 0,4
77521 -3 00001 4 77524 TXL NR,4,1
77522 0 07400 2 77611 TSX LT,2
77523 0 62100 0 00010 STA R
77524 -0 50000 0 00000 NR CAL VR
77525 0 77100 0 00022 ARS 18
77526 0 40000 0 00010 ADD R

```

PREFIX IS 4 IF PROGRAM CARD

SIGNAL END LOADING SEQUENTIAL PROG. CARDS



D

77527	0	62100	0	77531		STA	TR
77530	-0	53400	2	00000		LXD	VR,2
77531	-3	00000	2	00000	TR	TXL	0,2
77532	0	62100	0	77577		STA	TA
77533	0	62100	0	77601		STA	SA
77534	0	62100	0	77572		STA	SD
77535	0	62100	0	77566		STA	TD
77536	0	62100	0	77543	B	STA	CP
77537	-0	50000	0	00000		CAL	VR
77540	-3	00001	4	77543		TXL	CP,4,1
77541	-0	70000	0	00007		CAD	LB
77542	-0	70000	0	00006		CAD	RB
77543	-0	70000	2	00000	CP	CAD	0,2
77544	2	00001	2	77543		TIX	CP,2,1
77545	-3	00000	4	77551		TXL	CT,4,0
77546	-3	00001	4	00015		TXL	READ,4,1
77547	-3	00002	4	77551		TXL	CT,4,2
77550	-3	00003	4	77561		TXL	RL,4,3
77551	0	60200	0	00000	CT	SLW	VR
77552	0	50000	0	00001		CLA	SM
77553	0	10000	0	77557		TZE	RT
77554	0	40200	0	00000		SUB	VR
77555	0	10000	0	77557		TZE	RT
77556	0	42000	0	00000		HPR	
77557	-3	00001	4	00015	RT	TXL	READ,4,1
77560	3	00003	4	77642		TXH	SR,4,3
77561	0	56000	0	00006	RL	LDQ	RB
77562	0	50000	0	00007	DB	CLA	LB
77563	-0	76300	0	00001		LGL	1
77564	0	60200	0	00007		SLW	LB
77565	0	12000	0	77573		TPL	AB
77566	0	50000	1	00000	TD	CLA	0,1
77567	0	77100	0	00022		ARS	18
77570	0	07400	2	77604		TSX	CB,2
77571	0	76700	0	00022		ALS	18
77572	0	62200	1	00000	SD	STD	0,1
77573	0	50000	0	00007	AB	CLA	LB
77574	-0	76300	0	00001		LGL	1
77575	0	60200	0	00007		SLW	LB
77576	0	12000	0	77602		TPL	TV
77577	0	50000	1	00000	TA	CLA	0,1
77600	0	07400	2	77604		TSX	CB,2
77601	0	62100	1	00000	SA	STA	0,1
77602	2	00001	1	77562	TV	TIX	DB,1,1
77603	0	02000	0	00015		TRA	READ
77604	0	62100	0	00010	CB	STA	R
77605	0	50000	0	00007		CLA	LB
77606	-0	76300	0	00001		LGL	1
77607	0	60200	0	00007		SLW	LB
77610	-0	12000	0	77612		TMI	LTA
77611	0	76000	0	00141	LT	SLN	1
77612	0	50200	0	00010	LTA	CLS	R
77613	0	40000	0	00025		ADD	T
77614	0	12000	0	77622		TPL	ADDS

WILL ADDRESS BE MISLEADING  
 NO, CODE IS 10, TURN ON SENSE LIGHT  
 DOES THIS ADDRESS REFER TO PROGRAM OR DATA

77615	-0	76000	0	00141	SLT 1	APPEARS TO BE DATA, BUT WHAT WAS CODE
77616	0	02000	0	77624	TRA PROGRAM	ACTUALLY PROGRAM, ADD CURRENT INCREMENT
77617	0	50000	0	00010	DATA CLA R	IS DATA REFERENCE, DECREMENT
77620	0	40100	0	77520	ADM U	
77621	0	02000	2	00001	TRA 1,2	
77622	-0	76000	0	00141	ADDS SLT 1	APPEARS TO BE PROGRAM, WHAT WAS CODE
77623	0	02000	0	77617	TRA DATA	ACTUALLY IS DATA REFERENCE, DECREMENT
77624	0	40200	0	0C026	PROGRAM SUB S	
77625	0	02000	2	00001	TRA 1,2	
77626	-0	73400	2	00000	PASS1 PDX 0,2	- WORD COUNT IN DEC. OF AC
77627	-3	00000	2	77770	TXL PASS2,2,0	WORD COUNT IS 0, GO TO 2ND PASS
77630	0	40000	0	77771	ADD TAG	- LENGTH OF SYMB. TABLE IN DEC.
77631	0	40000	0	77640	ADD DECTWO	TO ALLOW SPACE IN TABLE FOR LOC. + LENGTH
77632	0	62200	0	77713	STD STOP	STORE NEW LENGTH IN INST. TO STOP RELOC.
77633	0	40200	0	77715	SUB M	ADDRS. TABLE + 1 - WORD COUNT + LENGTH TAB
77634	0	62200	0	77667	STD OVLP	STORE LOWEST ADDRS. FOUND, TO COMPARE TO S
77635	0	36100	0	00000	ACL VR	
77636	0	40200	0	77640	SUB DECTWO	
77637	0	77100	0	00022	ARS 18	
77640	2	00002	2	77641	DECTWO TIX TXB,2,2	
77641	0	07400	4	77536	TXB TSX B,4	FORCE IR 4 FOR CHECK SUM, BUT NOT RELOCATE
77642	-0	53400	1	77771	SR LXD TAG,1	LOAD OLD TABLE LENGTH
77643	0	50000	0	77777	CLA PRST	HAS ANOTHER PROGRAM CARD PRECEDED
77644	0	10000	0	77652	TZE ONLY1	THIS ONE
77645	0	50000	0	00007	CLA LB	YES, LB HAS NAME, RB HAS
77646	0	60100	1	77451	STO TABL-1,1	ENTRY POINT
77647	0	50000	0	00006	CLA RB	
77650	0	60100	1	77452	STO TABL,1	
77651	2	00002	1	77704	TIX NCARDS,1,2	SKIP, COMPARISONS ALREADY DONE
77652	0	50000	0	00026	ONLY1 CLA S	STORE LOCATION OF TRA VECTOR IN
77653	0	60000	1	77451	STZ TABL-1,1	
77654	0	60100	1	77452	STO TABL,1	SYMBOL TABLE, S HAS ADDRESS ONLY
77655	-0	53400	4	00007	LXD LB,4	
77656	3	00000	4	77661	TXH CLAS,4,0	
77657	0	50000	0	77776	CLA BTMASK	
77660	0	60100	1	77451	STO TABL-1,1	
77661	0	50000	0	00007	CLAS CLA LB	STORE LENGTH OF VECTOR IN
77662	0	62200	1	77451	STD TABL-1,1	SYMBOL TABLE
77663	0	62100	0	00025	STA T	STORE LENGTH OF ROUTINE IN T
77664	0	40000	0	00026	ADD S	UPDATE S
77665	0	62100	0	00026	STA S	
77666	0	73400	2	00000	PAX 0,2	COMPARE S TO LOWEST ADDRESS OF TABLE
77667	3	00000	2	00003	OVLP TXH TG,2,0	TRA TG, TABLE + INST. OVERLAP
77670	0	50000	0	77520	CLA U	FIND LOWEST ADDRESS DATA WILL USE
77671	0	40200	0	00006	SUB RB	
77672	0	73400	4	00000	PAX 0,4	
77673	-0	75400	4	00000	PXD 0,4	
77674	0	77100	0	00022	ARS 18	
77675	0	10000	0	77677	TZE ACLA	
77676	0	34000	0	00027	CAS ADDRS	
77677	0	50000	0	00027	ACLA CLA ADDRS	
77700	0	76100	0	00000	NOP	
77701	0	60100	0	00027	STO ADDRS	
77702	0	40200	0	00026	SUB S	

9/2

77703	-0	12000	0	77453		TMI	TOOMCH
77704	-0	63400	2	77777	NCARDS	SXD	PRTST,2
77705	0	60000	0	00007		STZ	LB
77706	1	00002	1	77707		TXI	LTT,1,2
77707	0	50600	1	77452	LTT	CLA	TABL,1
77710	0	07400	2	77604		TSX	CB,2
77711	0	62100	1	77452		STA	TABL,1
77712	1	00002	1	77713		TXI	STOP,1,2
77713	-3	00000	1	77707	STOP	TXL	LTT,1,0
77714	-0	63400	1	77771		SXD	TAG,1
77715	-2	77452	0	00015	M	TNX	READ,0,TABL
77716	-0	50000	2	77453	VEC	CAL	TABL+1,2
77717	-0	10000	0	77723		TNZ	G3
77720	0	50000	2	77454		CLA	TABL+2,2
77721	0	62100	0	00024		STA	PROG
77722	0	02000	0	77770		TRA	PASS2
77723	-0	32000	0	77776	G3	ANA	BTMASK
77724	-0	10000	0	77770		TNZ	PASS2
77725	0	50000	2	77453		CLA	TABL+1,2
77726	-0	73400	4	00000	OLDU	PDX	0,4
77727	0	77100	0	00022		ARS	18
77730	0	40000	2	77454		ADD	TABL+2,2
77731	0	62100	0	77736		STA	A
77732	0	62100	0	77764		STA	AA
77733	0	62100	0	77766		STA	AAA
77734	0	62100	0	77741		STA	ABB
77735	-0	53400	1	77771	NXTVC	LXD	TAG,1
77736	-0	50000	4	00000	A	CAL	0,4
77737	-0	32000	0	77776		ANA	BTMASK
77740	0	10000	0	77767		TZE	TIXVEC
77741	0	50000	4	00000	ABB	CLA	0,4
77742	0	34000	1	77453	NXTNAM	CAS	TABL+1,1
77743	0	02100	0	77745	TTR	TTR	G4
77744	0	02000	0	77763		TRA	FIX
77745	2	00002	1	77742	G4	TIX	NXTNAM,1,2
77746	0	60100	0	00006	SAVNAM	STO	RB
77747	-0	53400	1	77753		LXD	TWTY,1
77750	0	50000	1	77477	CMPR	CLA	LIST,1
77751	0	10000	0	77757		TZE	STONAM
77752	0	34000	0	00006		CAS	RB
77753	-2	00024	0	77755	TWTY	TNX	G2,0,20
77754	0	02000	0	77767		TRA	TIXVEC
77755	2	00001	1	77750	G2	TIX	CMPR,1,1
77756	0	00000	0	77770		HTR	PASS2
77757	0	50000	0	00006	STONAM	CLA	RB
77760	0	60100	1	77477		STO	LIST,1
77761	0	60000	1	77500		STZ	LIST+1,1
77762	0	02000	0	77767		TRA	TIXVEC
77763	0	50000	0	77743	FIX	CLA	TTR
77764	0	60100	4	00000	AA	STO	0,4
77765	0	50000	1	77454		CLA	TABL+2,1
77766	0	62100	4	00000	AAA	STA	0,4
77767	2	00001	4	77735	TIXVEC	TIX	NXTVC,4,1
77770	1	00002	2	77771	PASS2	TXI	TAG,2,2

TRA TOOMCH, DATA + INSTR, WILL OVERLAP  
 SIGNAL TO SEQUENTIAL PROGRAM CARDS  
 MAY COMPLEMENT IF 1 IS FOUND  
 TO GET PAST LOC. + LENGTH OF VECTOR

RELOCATE ENTRY POINTS IN TABLE

SAVE LENGTH OF TABLE

LENGTH OF VECTOR

PLUS LOACTION OF VECTOR

LENGTH OF SYMBOL TABLE

LOOK FOR FIRST NAME IN TRA VECTOR  
 IN SYMBOL TABLE

LOOK AT NEXT NAME IN TABLE

STORE IN FIRST EMPTY CELL  
 IF NEW NAME

ALREADY IN TABLE, IGNORE

MORE THAN 20 ENTRIES TO BE SEARCHED FOR

GET NEXT NAME IN VECTOR  
 IR 2 IS 0 AT BEGINING

77771 -3 00000 2 77716 TAG TXL VEC,2,0  
77772 0 50000 0 77453 CLA TABL+1  
77773 -0 10000 0 77775 TNZ SEARCH  
77774 1 00324 2 00021 TXI END,2,212  
77775 0 00000 0 00014 SEARCH HTR READ-1  
77776 -300000000000 BTMASK OCT 700000000000  
77777 0 00000 0 00000 PRIST  
00000 END

0 IF ALL NAMES WERE FOUND  
CLEARS SYMBOL TABLE, LIST + LOADER

A

1  
1

	FUL		01303	LOCREC	SYN	707
			00000		ORG	0
00000	0	53400	1	00000	A	LXA 0,1
00001	0	70000	1	00002	B	CPY 2,1
00002	1	77777	1	00001	C	TXI 1,1,-1
00003	0	00001	0	00000	ONEDEC	HTR 0,0,1
00004	-3	77540	1	00012	RD	TXL WEF1,1,-160
00005	0	76200	0	00321		RCD
00006	0	70000	1	05642	CPLODR	CPY 3000-22,1
00007	1	77777	1	00006		TXI CPLODR,1,-1
00010	0	00000	0	00004		HTR RD
00011	0	02000	0	00004		TRA RD
00012	0	77000	0	00201	WEF1	WEF 1
00013	-0	76000	0	00012		RTT
00014	0	76100	0	00000		NOP
00015	0	02000	0	05670		TRA RCD
00016	0	00000	0	00001	ONE	HTR 1
00017	0	00000	0	00036	REC2	HTR 30
00020	0	00000	0	01303	ERREC	HTR LOCREC
00021	0	00000	0	00001	RDREC	HTR 1
00022	0	00006	0	00000	RDWDC	HTR 0,0,6
00023	0	00000	0	00000	REC	HTR 0
00024	0	00000	0	00000	ERAS	HTR 0
00025	0	00006	0	00000	WDC	HTR 0,0,6
00026	0	00000	0	00006	SIX	HTR 6
00027	0	00000	0	00000	TPCONT	HTR 0
				05670		ORG 3000
05670	0	76200	0	00321	RCD	RCD
05671	0	70000	0	00000		CPY A
05672	0	02000	0	05674		TRA TEST
05673	0	00000	0	05670		HTR RCD
05674	0	70000	0	00001	TEST	CPY B
05675	0	50000	0	00000		CLA A
05676	-0	12000	0	05715		TMI, CONCRD
05677	0	62100	0	05705		STA COPY
05700	0	77100	0	00022		ARS 18
05701	0	73400	4	00000		PAX 0,4
05702	0	40200	0	05705		SUB COPY
05703	0	62100	0	05705		STA COPY
05704	-0	50000	0	00000		CAL A
05705	-0	70000	4	00000	COPY	CAD 0,4
05706	2	00001	4	05705		TIX COPY,4,1
05707	0	60200	0	00002		SLW C
05710	0	50000	0	00001		CLA B
05711	0	10000	0	05670		TZE RCD
05712	0	40200	0	00002		SUB C
05713	0	10000	0	05670		TZE RCD
05714	0	00000	0	05670		HTR RCD
05715	0	70000	0	00001	CONCRD	CPY B
05716	0	02000	0	06101		TRA END2
05717	0	50000	0	00023		CLA REC
05720	0	10000	0	05741		TZE NX
05721	0	50000	0	00000		CLA A

BOOTSTRAP FOR FIRST CARD

COPY REST OF EDITOR INTO UPPER MEMORY

TURN OFF INDICATOR

REC NUMBER IN DIAG FILE, 1ST WORD OF REC  
WORD COUNT OF RECORD READ FROM TAPE 5  
REC NUMBER FROM NEW REC CARD

MINUS IF NEW RECORD CARD  
SAVE ADDRESS OF FIRST INSTRUCTION

WORD COUNT INTO IR 4  
ADD FIRST ADDRESS  
STORE BASE ADDRESS IN COPY LOOP

IGNORE CHECK SUM  
8L OVER 9R, REST OF CARD IS IGNORED  
WILL BE REPLACED BY NOP  
INIT. 0, OR HAS NUMBER OF DIAG. REC. FROM  
LAST NEW REC. CARD, REMAINS 0 IF WEF ONLY  
IS NEW CONTROL CARD WEF, 9L IS -0

965

05722	-0	10000	0	05741		TNZ	NX
05723	0	02000	0	05733		TRA	WTREC1
05724	0	07400	4	05777	ALL	TSX	READ,4
05725	0	50000	0	00021		CLA	RDREC
05726	-0	12000	0	05735		TMI	END
05727	0	50000	0	00022		CLA	RDWDC
05730	0	62200	0	00025		STD	WDC
05731	0	50000	0	06013		CLA	RDLOOP
05732	0	62100	0	06051		STA	WTLOOP
05733	0	07400	4	06046	WTREC1	TSX	WRITE,4
05734	0	02000	0	05724		TRA	ALL
05735	0	77000	0	00201	END	WEF	1
05736	0	77200	0	00201		REW	1
05737	0	60000	0	07777		STZ	4095
05740	0	02000	0	07777		TRA	4095
05741	0	50000	0	00000	NX	CLA	A
05742	0	10000	0	05733		TZE	WTREC1
05743	0	62100	0	00023		STA	REC
05744	0	50000	0	00021	NX1	CLA	RDREC
05745	-0	12000	0	05761		TMI	NX4
05746	0	40200	0	00023		SUB	REC
05747	0	12000	0	05757		TPL	NX3
05750	0	50000	0	00022		CLA	RDWDC
05751	0	62200	0	00025		STD	WDC
05752	0	50000	0	06013		CLA	RDLOOP
05753	0	62100	0	06051		STA	WTLOOP
05754	0	07400	4	06046		TSX	WRITE,4
05755	0	07400	4	05777		TSX	READ,4
05756	0	02000	0	05744		TRA	NX1
05757	0	10000	0	05761	NX3	TZE	NX4
05760	0	76400	0	00205		BST	5
05761	0	50000	0	00001	NX4	CLA	B
05762	0	40000	0	00016		ADD	ONE
05763	0	62100	0	06051		STA	WTLOOP
05764	0	62100	0	00024		STA	ERAS
05765	0	77100	0	00022		ARS	18
05766	0	40200	0	00024		SUB	ERAS
05767	0	10000	0	05774		TZE	DELETE
05770	0	12000	0	05774		TPL	DELETE
05771	0	76700	0	00022		ALS	18
05772	0	62200	0	00025		STD	WDC
05773	0	02000	0	05670		TRA	RCD
05774	0	60000	0	00022	DELETE	STZ	RDWDC
05775	0	60000	0	00025		STZ	WDC
05776	0	02000	0	05670		TRA	RCD
05777	0	50000	0	00021	READ	CLA	RDREC
06000	-0	12000	0	06033		TMI	OUT
06001	0	40200	0	00016		SUB	ONE
06002	-0	10000	0	06005		TNZ	RD2
06003	0	50000	0	00017		CLA	REC2
06004	0	02000	0	06006		TRA	RD3
06005	0	50000	0	00020	RD2	CLA	ERREC
06006	0	62100	0	06013	RD3	STA	RDLOOP
06007	0	62100	0	06031		STA	SETREC

WRITE CURRENT BUFFER  
YES, END OF CHANGES, HAS ALL OF MASTER  
BEEN WRITTEN, RDREC WILL BE -

NO, READ IN NEXT RECORD FROM MASTER

WRITE ON NEW TAPE  
AND GET NEXT FROM MASTER

IF ONLY THIS PROGRAM AND WEF CARD  
WRITE ALL OF MASTER WITHOUT CHANGES  
OTHERWISE SAVE NEW RECORD NUMBER  
GET NUMBER OF REC LEFT IN CORES BY READ  
MINUS IF NO MORE RECORDS ON MASTER  
IS RECORD IN CORE THE ONE CALLED FOR

NOT YET, WRITE CORE RECORD ON NEW TAPE

BRING NEXT RECORD FROM MASTER AND  
TEST AGAINST NEW RECORD CARD  
IF CORRECT REC, SET WORD COUNT ETC.  
READ 1 TOO MANY, SOME REC DELETED

ADD 1 TO LAST ADDRESS FOR WRITE LOOP

IF LAST ADDRESS NOT GREATER THAN  
FIRST ADDRESS DELETE THIS REC WHEN COPYING  
MASTER

HAS END OF FILE BEEN REACHED  
IF 1ST RECORD STILL IN CORE, SET  
ADDRESS TO READ IN 2ND RECORD

3RD, 4TH ETC, ADDRESS IS LOCREC IN REC 2

06010	0	60000	0	00027	STZ	TPCONT
06011	-0	53400	2	00016	RDAGIN	LXD ONE,2
06012	0	76200	0	00225		RTB 5
06013	0	70000	2	00037	RDLOOP	CPY 31,2
06014	1	77777	2	06013		TXI RDLOOP,2,-1
06015	0	02000	0	06034		TRA SETEOF
06016	0	76600	0	00333		IOD
06017	-0	76000	0	00012		RTT
06020	0	02000	0	06037		TRA BSTP5
06021	-0	75400	2	00000	FXWDC	PXD 0,2
06022	0	76000	0	00006		COM
06023	0	40000	0	00003		ADD ONEDEC
06024	0	62200	0	00022		STD RDWDC
06025	0	77100	0	00022		ARS 18
06026	0	76000	0	00003		SSP
06027	0	40000	0	06013		ADD RDLOOP
06030	0	62100	0	06013		STA RDLOOP
06031	0	50000	0	00000	SETREC	CLA 0
06032	0	62100	0	00021		STA RDREC
06033	0	02000	4	00001	OUT	TRA 1,4
06034	-0	76000	0	00003	SETEOF	SSM
06035	0	60100	0	00021		STO RDREC
06036	0	02000	4	00001		TRA 1,4
06037	-0	53400	1	00027	BSTP5	LXD TPCONT,1
06040	-3	00017	1	06042		TXL TRABST,1,15
06041	0	00000	0	06021		HTR FXWDC
06042	0	76400	0	00205	TRABST	BST 5
06043	1	00001	1	06044		TXI MM,1,1
06044	-0	63400	1	00027	MM	SXD TPCONT,1
06045	0	02000	0	06011		TRA RDAGIN
06046	-0	53400	2	00025	WRITE	LXD WDC,2
06047	-3	00000	2	06053		TXL WTOUT,2,0
06050	0	76600	0	00221		WTB 1
06051	0	70000	2	00037	WTLOOP	CPY 31,2
06052	2	00001	2	06051		TIX WTLOOP,2,1
06053	0	02000	4	00001	WTOUT	TRA 1,4
06054	0	76200	0	00225	ISDIAG	RTB 5
06055	0	70000	0	06101		CPY RTB1+1
06056	0	02000	0	06054		TRA ISDIAG
06057	0	76200	0	00225		RTB 5
06060	0	53400	2	00026		LXA SIX,2
06061	0	70000	2	00037	ISCP	CPY 31,2
06062	2	00001	2	06061		TIX ISCP,2,1
06063	0	76100	0	00000	NOP	NOP
06064	0	50000	0	00031		CLA 25
06065	0	40200	0	06077		SUB TEST1
06066	-0	10000	0	06072		TNZ TST1
06067	0	50000	0	00032		CLA 26
06070	0	40200	0	06100		SUB RTB1
06071	0	10000	0	06074		TZE TST2
06072	-0	76000	0	00003	TST1	SSM
06073	0	60100	0	00021		STO RDREC
06074	0	50000	0	06063	TST2	CLA NOP
06075	0	60100	0	05716		STO CONCRD+1

IE., ZERO

RECOMPLIMENT WORD COUNT  
AND FIND BASE ADDRESS

ADD WORD COUNT TO FIRST ADDRESS

FIRST WORD OF RECORD HAS RECORD NUMBER

SET RDREC - IF END OF MASTER FILE

PRESS START TO ACCEPT

WORD COUNT ZERO TO DELETE RECORD

SPACE OVER LIBRARY

IF MASTER FILE DOES NOT HAVE DIAG.,  
SET READ TO IGNORE, OTHERWISE  
FIRST RECORD WILL BE IN CORES

TD 06076 0 02000 0 05717 TRA CONCRD+2  
06077 3 00000 0 00001 TEST1 TXH 1  
06100 0 76200 0 00221 RTB1 RTB 1  
06101 0 76200 0 00225 END2 RTB 5  
A 06102 0 02000 0 06054 TRA ISDIAG  
00000 END

SPACE OVER END FILE GAP AT END FILE 2



1  
1

REM EXAMPLE OF DIAGNOSTIC CALLER FOR 704 FORTRAN II  
EXAMPLE OF DIAGNOSTIC CALLER FOR 704 FORTRAN II

RECNR IS SYNONYMOUS WITH THE NUMBER OF THE RECORD TO WHICH  
THE DIAGNOSTIC CALLER PERTAINS. REC\*\*\* IS THE FORTRAN RECORD  
NUMBER ASSIGNED TO THE DIAGNOSTIC CALLER.  
BEGIN IS SYNONYMOUS WITH THE LOAD ADDRESS OF THE DIAGNOSTIC  
CALLER. BEG\*\*\*\* HAS THE SAME VALUE AS BEGIN.

			00000	RECNR	SYN	***			REC	***
			00000	BEGIN	SYN	****			BEG	****
			00000		ORG	0		FORCE NEW MASTER RECORD	MR	1
00000	0	00000	0	00000	HTR	BEGIN,0,BEGIN		CARD FOR EDITOR, NEEDS	MR	2
00001	0	00000	0	00021	HTR	STOP		9 ROW, COL. 3 PUNCH	MR	3
			00000		ORG	BEGIN		CALL DIAG FROM FILE *	CD1	1
00000	-0	63400	2	00000	SXD	0,2			CD1	2
00001	-0	53400	1	00014	LXD	MEM,1			CD1	3
00002	-0	53400	2	00012	LXD	FILTST,2	* FILES TO BE SPACED OVER		CD1	4
00003	0	76600	0	00304	WDR	4	0 TO 2047 WRITTEN ON DRUM 4		CD1	5
00004	0	70000	1	04000	COPY	CPY 2048,1			CD1	6
00005	2	00001	1	00004	TIX	COPY,1,1	NEXT TIME LOOP WILL COPY INTO 25		CD1	7
00006	1	03746	1	00010	TXI	A,1,2022	UNTIL END OF RECORD SKIP		CD1	8
00007	0	02000	0	00032	TRA	26	IGNORE RECORD NUMBER		CD1	9
00010	0	76200	0	00221	A	RTB 1			CD1	10
00011	0	70000	0	00000	CPY	BEGIN	SPACE OVER RECORDS IN THIS FILE		CD1	11
00012	-2	00003	0	00010	FILTST	TXN A,0,3			CD1	12
00013	0	02000	0	00015	TRA	B	HAVE ALL 3 FILES BEEN SPACED OVER		CD1	13
00014	0	04000	0	00000	MEM	HTR RECNR,0,2048			CD1	14
00015	2	00001	2	00010	B	TIX A,2,1	NO, GO BACK TO A		CD1	15
00016	0	50000	0	00014	CLA	MEM			CD1	16
00017	0	62100	0	00002	STA	2			CD1	17
00020	0	76200	0	00221	RTB	1	YES, READ IN MAIN DIAGNOSTIC		CD1	18
00021	0	02000	0	00004	STOP	TRA COPY			CD1	19
			00000		END				CD1	20

A

1		ORG 1		00001		FORCE NEW RECORD
1				00001		ORG 1
	00001	0	00031	0	00036	HTR X-1,0,25
				00031		ORG 25
TD	00031	3	00000	0	00001	TXH 1
	00032	0	76200	0	00221	RTB 1
	00033	-0	53400	1	00036	LXD ZERO,1
	00034	0	70000	1	00036	CPY 30,1
	00035	1	77777	1	00034	TXI CP,1,-1
	00036	0	00000	0	00000	HTR 0
	00037	0	00000	0	00000	X
A				00000		END

FORCE NEW RECORD  
CARD FOR DE

READ IN REST OF DIAGNOSTIC  
READ INTO 30, TABLE SEARCH AND ALL  
CONVERTING + PRINT ETC, ROUTINES

END RECORD SKIP, EXIT TO 31  
RECORD NUMBER OF NEXT COPIED HERE

1  
1

ORG 2

00002 0 00036 0 00002  
00040 -0 75400 1 00000  
00041 0 40000 0 01233  
00042 0 60100 0 01234  
00043 -0 75400 4 00000  
00044 0 40200 0 01234  
00045 0 62200 0 01235  
00046 0 76600 0 00361  
00047 0 76000 0 00367  
00050 0 07400 4 00740  
00051 0 00172 0 00155  
00052 0 76600 0 00361  
00053 0 76600 0 00361  
00054 0 76600 0 00361  
00055 0 76600 0 00361  
00056 0 76100 0 00000  
00057 0 76100 0 00000  
00060 0 50000 0 00002  
00061 -0 32000 0 01227  
00062 0 60100 0 01236  
00063 0 40200 0 00220  
00064 -0 10000 0 00070  
00065 0 07400 4 00740  
00066 0 00220 0 00205  
00067 0 02000 0 00117  
00070 0 50000 0 01236  
00071 0 07400 4 00676  
00072 0 07400 4 00602  
00073 0 60200 0 00204  
00074 0 07400 4 00740  
00075 0 00205 0 00172  
00076 0 50000 0 01235  
00077 0 77100 0 00022  
00100 0 07400 4 00730  
00101 0 60200 0 01257  
00102 -0 50000 0 01255  
00103 0 77100 0 00030  
00104 0 56000 0 01257  
00105 -0 76300 0 00030  
00106 0 60200 0 01255  
00107 -0 76300 0 00014  
00110 0 56000 0 00717  
00111 -0 76300 0 00030  
00112 0 60200 0 01256  
00113 0 07400 4 00740  
00114 0 01257 0 01252  
00115 0 76600 0 00361  
00116 0 76600 0 00361

LIST

NOTNA

FORCE NEW RECORD  
ORG 2  
HTR XZY-1,0,30  
ORG 30  
TXH 2  
SYN 32767  
LXA ADDMSK,1  
PXD 0,1  
ADD DECONE  
STO PREFX1  
PXD 0,4  
SUB PREFX1  
STD ERWORD  
WPR  
SPR 7  
TSX PRINT,4  
HTR PR1,0,PR1+13  
WPR  
WPR  
WPR  
WPR  
NOP  
NOP  
CLA 2  
ANA ADDMSK  
STO RECORD  
SUB TW13  
TNZ NOTNA  
TSX PRINT,4  
HTR ISNONA,0,ISNONA+11  
TRA SEARCH-1  
CLA RECORD  
TSX BINDEC,4  
TSX LAJUST,4  
SLW FOREC  
TSX PRINT,4  
HTR PR2,0,FOREC+1  
CLA ERWORD  
ARS 18  
TSX OCTBCD,4  
SLW ERAS  
CAL LOC+3  
ARS 24  
LDQ ERAS  
LGL 24  
SLW LOC+3  
LGL 12  
LDQ BLANKS  
LGL 24  
SLW LOC+4  
TSX PRINT,4  
HTR LOC,0,LOC+5  
WPR  
WPR

FORCE NEW RECORD  
CARD FOR DE

MAIN RECORD

FIND NUMBER TO SUBTRACT FROM TSX  
TO GET ORIGINAL LOCATION  
THIS WILL BE USED TO RE-COMPLIMENT ANY  
OF THE TSX S TO THE DIAGNOSTIC  
IR 4 HAS BEEN SET BY TSX

TEST FOR SAP BOARD  
PRINT TITLE

LOC. 2 HAS NUMBER OF FORTRAN RECORD  
PRECEDING THE CALL IN OF THE DIAG.

IF NON-ARITHMETIC HAS CALLED DIAG  
PRINT OTHER HEADER

CONVERT TO BCD + LEFT ADJUST WORD

PRINT NUMBER OF RECORD IN WHICH  
ERROR FOUND  
IN DECREMENT

PRINT LOCATION OF STOP

```

00117 -0 53400 4 02346 LX D ERLIST,4
00120 0 50000 4 02346 SEARCH CLA ERLIST,4
00121 0 34000 0 01235 CAS ERWORD
00122 0 02000 0 00124 TRA TIXA
00123 0 02000 0 00130 TRA HAVE
00124 2 00002 4 00120 TIXA TIX SEARCH,4,2
00125 0 02000 0 00137 TRA LXDA
00126 0 76100 0 00000 NOP
00127 0 76100 0 00000 NOP
00130 0 50000 4 02347 HAVE CLA ERLIST+1,4
00131 -0 12000 0 00145 TMI DUP
00132 -0 73400 4 00000 PD PDX 0,4
00133 2 00003 4 00134 TIX RTBA,4,3
00134 0 76200 0 00221 RTBA RTB 1
00135 0 70000 0 00031 CPY 25
00136 2 00001 4 00134 TIX RTBA,4,1
00137 -0 53400 4 01232 LXDA LX D ZERO,4
00140 0 76200 0 00221 RTB 1
00141 0 70000 4 01303 CPYREC CPY LOCREC,4
00142 1 77777 4 00141 TXI CPYREC,4,-1
00143 0 76100 0 00000 NOP NOP
00144 0 02000 0 01304 TRA LOCREC+1
00145 -0 32000 0 01227 DUP ANA ADDMSK
00146 0 34000 0 01236 CAS RECORD
00147 0 02000 0 00151 TRA NOTREC
00150 0 02000 0 00153 TRA HAVREC
00151 2 00002 4 00120 NOTREC TIX SEARCH,4,2
00152 0 02000 0 00137 TRA LXDA
00153 0 50000 4 02347 HAVREC CLA ERLIST+1,4
00154 0 02000 0 00132 TRA PD
00155 606060606060 PR1 BCD 7
00156 606060606060
00157 606060606060
00160 606060606060
00161 606060606060
00162 606060606060
00163 606060606060
00164 264651635121 BCD 6FORTRAN DIAGNOSTIC PROGRAM RESULTS
00165 456024312127
00166 454662633123
00167 604751462751
00170 214460512562
00171 644363626060
00172 606060606060 PR2 BCD 2
00173 606060606060
00174 255151465160 BCD 8ERROR WHILE COMPILING IN FORTRAN RECORD NUMBER
00175 663031432560
00176 234644473143
00177 314527603145
00200 602646516351
00201 214560512523
00202 465124604564
00203 442225516060
00204 0 00000 0 00000 FOREC HTR

```

ASSORTED TSX IN DEC FIELD  
OF FIRST WORD OF LIST

UNIDENTIFYABLE, BRING IN RECORD ZERO

DUPLICATE STOPS SHOULD BE MARKED MINUS  
SECOND WORD HAS NUMBER OF RECORDS  
TO BE SPACED OVER BEFORE READING  
REDUCE NUMBER IF NOT REC 1, NOW SAME AS  
EDITOR RECORD NUMBER

END RECORD SKIP WILL CONTROL  
COPY AND TRANSFER

SKIP RECORD NUMBER  
2ND WORD WILL HAVE CORRECT ERROR RECORD  
NUMBER IN ADDRESS, FOR CORRECT FORTRAN  
RECORD NUMBER IN THE CASE OF  
DUPLICATE STOPS.

IF END OF LIST, PRINT REC. ZERO

A

97V

00205	606060606060	ISNONA	BCD 2	
00206	606060606060			
00207	255151465160			BCD 9ERROR FOUND DURING SCAN OF TABLES COMPILED BY 1 PRIME.
00210	264664452460			
00211	246451314527			
00212	606223214560			
00213	462660632122			
00214	432562602346			
00215	444731432524			
00216	602270600160			
00217	475131442533			
00220	0 00000 0 00325	TW13	HTR 213	
00221	-0 53400 2 00000	DIGRTN	LXD 0,2	RESET MEMORY
00222	0 50000 0 00314		CLA CPDR	LOOP AT LOC. 0,1 AND 2 WILL
00223	0 60100 0 00000		STO 0	COPY 2045 WORDS FROM DRUM 4
00224	0 50000 0 00315		CLA TIXO	BEGINNING AT LOC. 3
00225	0 60100 0 00001		STO 1	
00226	0 50000 0 00316		CLA HTR4	
00227	0 60100 0 00002		STO 2	
00230	0 50000 0 00674	RESTR	CLA PRTEST	SHOULD FOOTNOTE BE PRINTED
00231	0 10000 0 00235		TZE WPREND	
00232	0 76600 0 00361		WPR	YES
00233	0 07400 4 00740		TSX PRINT,4	
00234	0 00505 0 00463		HTR NEARBT,0,NEARBT+18	
00235	0 76600 0 00361	WPREND	WPR	
00236	0 76600 0 00361		WPR	
00237	0 76600 0 00361		WPR	
00240	0 76600 0 00361		WPR	
00241	0 77200 0 00202		REW 2	REWIND SO PROBLEM CAN BE RE-RUN
00242	0 77200 0 00201		REW 1	
00243	0 76100 0 00000		NOP	J CANNON
00244	0 76100 0 00000		NOP	
00245	0 76000 0 00166	SIXTST	SWT 6	SHOULD CHOICE TO NEXT BATCH BE PRINTED
00246	0 02000 0 00251		TRA SPACE1	NO
00247	0 50000 0 00304		CLA PRALT	SURE
00250	0 60100 0 00261		STO PRNT1	
00251	0 76200 0 00221	SPACE1	RTB 1	SPACE OVER FIRST FILE IN SYSTEM
00252	0 70000 0 01257		CPY ERAS	
00253	0 02000 0 00251		TRA SPACE1	
00254	0 76200 0 00221	SKIP	RTB 1	OVER REC 1, FILE 2, OUR TRA 4, THEIR WHO KNOWS
00255	0 76100 0 00000		NOP	
00256	0 07400 4 00740		TSX PRINT,4	
00257	0 00360 0 00320		HTR END,0,END+32	
00260	0 07400 4 00740		TSX PRINT,4	
00261	0 00376 0 00360	PRNT1	HTR END1,0,END1+14	
00262	0 76600 0 00361		WPR	
00263	+076000000140		OCT 076000000140	TURN OFF ALL SENSE LIGHTS
00264	0 76600 0 00361		WPR	
00265	0 76000 0 00362		SPR 2	EJECT SHEET
00266	0 76600 0 00333	DONE	IOD	
00267	-0 76000 0 00012		RTT	
00270	0 76100 0 00000		NOP	
00271	0 02000 0 03534		TRA ENDPCH	
00272	0 50000 0 00317	SPEND	CLA BST1	BACKSPACE OVER FILE MARK

00273	0 60100 0 00254	STO SKIP	AND OVER SOURCE ERROR RECORD
00274	0 60100 0 00255	STO SKIP+1	
00275	0 76000 0 00166	SWT 6	
00276	0 02000 0 00305	TRA NDWP	
00277	0 50000 0 00311	CLA PRNT2	
00300	0 60100 0 00261	STO PRNT1	
00301	0 50000 0 00143	FX6TST CLA NOP	
00302	0 60100 0 00245	STO SIXTST	
00303	0 02000 0 00221	TRA DIGRTN	
00304	0 03631 0 03540	PRALT HTR MACEN,0,MACEN+57	
00305	0 50000 0 00143	NDWP CLA NOP	DO NOT PRINT A LAST COMMENT
00306	0 60100 0 00260	STO PRNT1-1	
00307	0 60100 0 00261	STO PRNT1	
00310	0 02000 0 00301	TRA FX6TST	
00311	0 00417 0 00376	PRNT2 HTR END2,0,END2+17	MAY CONTINUE NEXT BATCH
00312	0 00463 0 00417	PRNT4 HTR END3,0,END3+36	
00313	0 03775 0 00003	DRUM HTR 3,0,2045	
00314	0 70000 4 04000	CPDR CPY 2048,4	
00315	2 00001 4 00000	TIXO TIX 0,4,1	
00316	0 02000 0 00004	HTR4 TRA 4	
00317	0 76400 0 00201	BST1 BST 1	
00320	606060606060	END BCD 7	
00321	606060606060		
00322	606060606060		
00323	606060606060		
00324	606060606060		
00325	606060606060		
00326	606060606060		
00327	254524604626	BCD	END OF DIAGNOSTIC PROGRAM RESULTS.
00330	602431212745		
00331	466263312360		
00332	475146275121		
00333	446051256264		
00334	436362336060		
00335	606060606060		
00336	606060606060		
00337	606060606060		
00340	606060606060		
00341	606060606060	BCD	
00342	606060606060		
00343	606060606060		
00344	606060606060		
00345	606060606060		
00346	606060606060		
00347	606060606060		
00350	606060606060		
00351	606060606060		
00352	606060606060		
00353	475146275121	BCD	5PROGRAM CANNOT BE CONTINUED.
00354	446023214545		
00355	466360222560		
00356	234645633145		
00357	642524336060		
00360	606060606060	END1 BCD 7	

00361 606060606060  
00362 606060606060  
00363 606060606060  
00364 606060606060  
00365 606060606060  
00366 606060606060  
00367 475125626260  
00370 626321516360  
00371 312660704664  
00372 606631623060  
00373 634660512540  
00374 516445604751  
00375 462243254433  
00376 606060606060  
00377 606060606060  
00400 606060606060  
00401 606060606060  
00402 606060606060  
00403 606060606060  
00404 606060606060  
00405 633025606270  
00406 626325446066  
00407 314343602346  
00410 456331456425  
00411 602221632330  
00412 602346444731  
00413 433145276060  
00414 606060606060  
00415 606060606060  
00416 606060606060  
00417 606060606060  
00420 606060606060  
00421 606060606060  
00422 606060606060  
00423 606060606060  
00424 606060606060  
00425 606060606060  
00426 475125626260  
00427 626321516360  
00430 312660704664  
00431 606631623060  
00432 634660234645  
00433 633145642560  
00434 222163233060  
00435 234644473143  
00436 314527736046  
00437 516042257060  
00440 314560000706  
00441 000000600000  
00442 000104017360  
00443 606060606060  
00444 606060606060  
00445 606060606060  
00446 606060606060

BCD 7PRESS START IF YOU WISH TO RE--RUN PROBLEM.

END2 BCD 7

BCD THE SYSTEM WILL CONTINUE BATCH COMPILING

END3 BCD 7

BCD PRESS START IF YOU WISH TO CONTINUE BATCH COMPILING, OR KEY

BCD IN 076000 000141.

00447 606060606060  
 00450 606060606060  
 00451 606060606060  
 00452 214524604751  
 00453 256262606263  
 00454 215163603126  
 00455 607046646066  
 00456 316230606346  
 00457 605125405164  
 00460 456047514622  
 00461 432544336060  
 00462 606060606060  
 00463 606060606060  
 00464 546063303162  
 00465 606263216325  
 00466 442545636030  
 00467 216260454660  
 00470 264651446443  
 00471 216045644422  
 00472 255133606063  
 00473 302560264651  
 00474 446443216045  
 00475 644422255160  
 00476 216262312745  
 00477 252460216045  
 00500 253127302246  
 00501 513145276062  
 00502 632163254425  
 00503 456360316260  
 00504 273165254533  
 00505 -0 63400 4 00531 FX4PR SXD IR4,4  
 00506 0 50000 0 00527 CLA ALFBET  
 00507 0 77100 0 00022 ARS 18  
 00510 -0 32000 0 01227 ANA ADDMSK  
 00511 0 07400 4 00613 TSX EXBETA,4  
 00512 0 60200 0 00536 SLW DOALF  
 00513 0 50000 0 00527 CLA ALFBET  
 00514 -0 32000 0 01227 ANA ADDMSK  
 00515 0 07400 4 00613 TSX EXBETA,4  
 00516 0 07400 4 00602 TSX LAJUST,4  
 00517 0 60200 0 00540 SLW DOBET  
 00520 -0 50000 0 00530 CAL SYM  
 00521 0 07400 4 00543 TSX ZEROUT,4  
 00522 0 60200 0 00542 SLW DOSYM  
 00523 0 07400 4 00740 TSX PRINT,4  
 00524 0 00543 0 00532 HTR PRDO,0,PRDO+9  
 00525 -0 53400 4 00531 LXD IR4,4  
 00526 0 02000 4 00001 TRA 1,4  
 00527 0 00000 0 00000 ALFBET HTR  
 00530 0 00000 0 00000 SYM HTR  
 00531 0 00000 0 00000 IR4 HTR  
 00532 606060606060 PRDO BCD 4  
 00533 606060606060  
 00534 606060606060

BCD 9AND PRESS START IF YOU WISH TO RE-RUN PROBLEM.

NEARBT BCD 1  
 BCD \* THIS STATEMENT HAS NO FORMULA NUMBER. THE FORMULA NUMBER

BCD 7ASSIGNED A NEIGHBORING STATEMENT IS GIVEN.

THIS ROUTINE PRINTS ALPH DO BETA FOR I  
 GETS ALPHA, OR NEAREST PRECEDING ALPHA,  
 AND BETA FROM WORD ALFBET, SYMBOL  
 FROM WORD SYM

BLANKS ARE TO RIGHT OF WORD

ADJUST FOR TRAILING BLANKS

UNPACK WORD

A  
 A  
 A



	00535	606060606060			
A	00536	0 00000 0 00000	DOALF	HTR	
	00537	606024466060		BCD 1	DO
A	00540	0 00000 0 00000	DOBET	HTR	
	00541	602646516060		BCD 1	FOR
A	00542	0 00000 0 00000	DOSYM	HTR	
	00543	-0 63400 4 00563	ZEROUT	SXD	ZER6,4
	00544	-0 53400 4 00564		LXD	SIX,4
	00545	0 60200 0 00562	ZER1	SLW	ZER5
	00546	-0 32000 0 01231		ANA	CHMASK
	00547	-0 10000 0 00553		TNZ	ZER2
	00550	-0 50000 0 00562		CAL	ZER5
	00551	0 77100 0 00006		ARS	6
	00552	2 00001 4 00545		TIX	ZER1,4,1
	00553	-0 50000 0 00562	ZER2	CAL	ZER5
	00554	0 56000 0 00717		LDQ	BLANKS
	00555	3 00005 4 00560	ZER3	TXH	ZER4,4,5
	00556	-0 76300 0 00006		LGL	6
	00557	1 00001 4 00555		TXI	ZER3,4,1
	00560	-0 53400 4 00563	ZER4	LXD	ZER6,4
	00561	0 02000 4 00001		TRA	1,4
A	00562	0 00000 0 00000	ZER5	HTR	
A	00563	0 00000 0 00000	ZER6	HTR	
	00564	0 00006 0 00000	SIX	HTR	0,0,6
	00565	0 60200 0 00577	RAJUST	SLW	RAJ1
	00566	-0 32000 0 01231		ANA	CHMASK
	00567	0 40200 0 00600		SUB	01BLNK
	00570	-0 10000 0 00575		TNZ	RAJ2
	00571	-0 50000 0 00577		CAL	RAJ1
	00572	0 77100 0 00006		ARS	6
	00573	0 36100 0 00601		ACL	RBLNK
	00574	0 02000 0 00565		TRA	RAJUST
	00575	-0 50000 0 00577	RAJ2	CAL	RAJ1
	00576	0 02000 4 00001		TRA	1,4
A	00577	0 00000 0 00000	RAJ1	HTR	
	00600	000000000060	01BLNK	BCD	100000
	00601	600000000000	RBLNK	BCD	1 00000
	00602	0 56000 0 00612	LAJUST	LDQ	BLNKO
	00603	0 14000 0 00604	LAJ1	TOV	LAJ2
	00604	-0 76300 0 00001	LAJ2	LGL	1
	00605	-0 14000 0 00610		TNO	LAJ3
	00606	-0 76300 0 00005		LGL	5
	00607	0 02000 0 00603		TRA	LAJ1
	00610	0 77100 0 00001	LAJ3	ARS	1
	00611	0 02000 4 00001		TRA	1,4
	00612	606060606000	BLNKO	BCD	1 0
		77013	TEIFIN	SYN	LIST-500
	00613	0 76700 0 00022	EXBETA	ALS	18
	00614	0 62200 0 00675		STD	BETAEX

ENTER CAL\*BCD WORD WHICH FORTRAN HAS STORED  
LEFT ADJUSTED, FOLLOWED BY 1 BLANK AND  
PADDLED OUT WITH ZEROS  
IE., OCT 000000000077

LAST CHARACTER WAS ZERO  
SHIFT OUT OF AC

NOW SHIFT IN A BLANK FOR EVERY 0 TAKEN OUT

LEAVE, BCD AND BLANKS, MUST BE SAVED  
WITH SLW

ENTER, CAL BCD, LEFT ADJUSTED PLUS BLANKS  
IE., OCT 000000000077

YES, MOVE WORD AND ADD BLANK AT FRONT  
IS LAST CHARACTER A BLANK

LEAVES AC WITH LEADING BLANKS, MUST BE  
SAVED WITH SLW

ENTER, CAL BCD NUMBER, LEADING BLANKS  
TURN OFF INDICATOR  
NUMBER HAS ZERO ZONE, BLANK WILL TURN  
ON INDICATOR

FIRST BIT FROM Q BACK TO P  
EXIT TRAILING BLANKS, MUST BE SAVED WITH SLW  
WILL STOP ROUTINE IF WORD IS ALL BLANKS.

ENTER WITH INTERNAL FORMULA NUMBER IN ADDRESS OF AC  
EXIT WITH EXTERNAL FORMULA NUMBER, OR NEAREST PRECEDING  
EXTERNAL FORMULA NUMBER, IN BCD IN LOGICAL PORTION  
OF AC. THIS MUST BE SAVED WITH SLW. NUMBER WILL  
BE FOLLOWED BY ASTERISK WHEN EXACT MATCH IS NOT FOUND

00615	-0	63400	4	00671	SXD	XB10,4
00616	-0	53400	4	00640	LXD	INCOR,4
00617	3	00000	4	00644	TXH	XB4,4,0
00620	0	77200	0	00202	REW	2
00621	0	53400	4	00671	LXA	XB10,4
00622	0	76200	0	00222	RTB	2
00623	0	70000	0	77012	CPY	TEIFIN-1
00624	0	02000	0	00622	TRA	XB1
00625	2	00001	4	00622	TIX	XB1,4,1
00626	0	53400	4	00640	LXA	INCOR,4
00627	0	76200	0	00222	RTB	2
00630	0	70000	0	77012	CPY	TEIFIN-1
00631	2	00001	4	00627	TIX	XB2,4,1
00632	-0	53400	4	01232	LXD	ZERO,4
00633	0	76200	0	00222	RTB	2
00634	0	70000	0	77012	CPY	TEIFIN-1
00635	0	70000	0	77012	CPY	TEIFIN-1
00636	0	70000	4	77012	CPY	TEIFIN-1,4
00637	1	00001	4	00636	TXI	XB3,4,1
00640	0	00000	0	00004	HTR	4
00641	3	00000	4	00643	TXH	XB4A,4,0
00642	-0	53400	4	01233	LXD	DECONE,4
00643	-0	63400	4	00640	SXD	INCOR,4
00644	0	50000	4	77013	CLA	TEIFIN,4
00645	-0	32000	0	01230	ANA	DECMK
00646	0	34000	0	00675	CAS	BETAEX
00647	0	02000	0	00665	TRA	XB8
00650	0	02000	0	00667	TRA	XB9
00651	0	50000	0	01227	CLA	ADDMSK
00652	0	60100	0	00674	STO	PRTEST
00653	0	60100	0	00672	STO	XB11
00654	0	50000	4	77013	CLA	TEIFIN,4
00655	-0	32000	0	01227	ANA	ADDMSK
00656	0	07400	4	00676	TSX	BINDEC,4
00657	0	53400	4	00672	LXA	XB11,4
00660	0	56000	0	00673	LDQ	ASTRSK
00661	-3	00000	4	00663	TXL	XB7,4,0
00662	-0	76300	0	00006	LGL	6
00663	-0	53400	4	00671	LXD	XB10,4
00664	0	02000	4	00001	TRA	1,4
00665	2	00001	4	00644	TIX	XB4,4,1
00666	0	02000	0	00651	TRA	XB5
00667	0	60000	0	00672	STZ	XB11
00670	0	02000	0	00654	TRA	XB6
00671	0	00000	0	00004	HTR	4,0,0
00672	0	00000	0	00000	XB11	HTR 0
00673	546060606060			ASTRSK	BCD	1*
00674	0	00000	0	00000	PRTEST	HTR 0
00675	0	00000	0	00000	BETAEX	HTR 0

IF TEIFNO IN MEMORY, SKIP READ IN

4 FILES TO BE SPACED OVER

SPACE OVER RECORDS UNTIL END FILE SKIP

IGNORE IDENTIFICATION AND WORD COUNT

READ IN TEIFNO UNTIL END OF RECORD SKIP

SET READ IN TO FAIL IF NO TEIFNO ENTRIES

COMPARE INTERNAL FORMULA NUMBERS

TO THE ONE BEING ASKED FOR

SET TEST TO ADD ASTERISK TO END OF NUMBER

SET END OF DIAG TO PRINT FOOTNOTE

GET EXTERNAL FORMULA NUMBER

CONVERT TO BCD DECIMAL

SHOULD ASTERISK BE ADDED  
YES

COMPARE TO NEXT, OR  
PRINT FIRST ENTRY WITH ASTERISK  
SET TEST TO PRINT NUMBER ONLY

ENTER, BINARY NUMBER IN ADDRESS AC. EXIT DECIMAL  
NUMBER IN BCD IN LOGICAL PORTION OF AC. MUST BE  
SAVED WITH SLW

JUST IN CASE

00676	0	76000	0	00003	BINDEC	SSP
00677	0	76500	0	00043	LRS	35

00700 -0 63400 4 00720      SXD BINA,4  
 00701 -0 53400 4 00714      LXD BINB,4  
 00702 0 50000 0 00721 CNV    CLA TEN  
 00703 0 04000 0 00710      TLQ FIN  
 00704 -0 75400 0 00000      PXD 0,0  
 00705 0 22100 0 00721      DVP TEN  
 00706 0 60200 4 00730      SLW DIG,4  
 00707 1 00001 4 00702      TXI CNV,4,1  
 00710 -0 60000 4 00730 FIN    STQ DIG,4  
 00711 -0 50000 0 00717      CAL BLANKS  
 00712 0 76700 0 00006 DEC    ALS 6  
 00713 -0 50100 4 00730      ORA DIG,4  
 00714 2 00001 4 00712 BINB   TIX DEC,4,1  
 00715 -0 53400 4 00720      LXD BINA,4  
 00716 0 02000 4 00001      TRA 1,4  
 00717 606060606060    BLANKS BCD 1  
 00720 0 00000 0 00000    BINA HTR  
 00721 +000000000012    TEN DEC 10  
                           00730 DIG    BES 6

IF MQ LESS THAN 10, CONVERSION IS FINISHED

SAVE REMAINDER IN 1 WORD OF BLOCK  
UP WORD COUNT OF BLOCK

START WITH BLANKS  
AND BRING IN REMAINDER FROM ABOVE

ENTER WITH OCTAL NUMBER IN ADDRESS OF AC. EXIT OCTAL  
CONVERTED TO BCD IN LOGICAL PORTION OF AC. THIS MUST  
BE SAVED WITH SLW

00730 0 76500 0 00017 OCTBCD LRS 15  
 00731 0 50000 0 00737      CLA BLANK  
 00732 -0 14000 0 00733      TNO OCT  
 00733 0 76700 0 00003 OCT    ALS 3  
 00734 0 76300 0 00003      LLS 3  
 00735 -0 14000 0 00733      TNO OCT  
 00736 0 02000 4 00001      TRA 1,4  
 00737 000000000060    BLANK BCD 100000  
                           00740 PRINT BSS 0  
                           00004 C    EQU 4  
 00740 0 50000 4 00001 RAN    CLA 1,4  
 00741 0 62100 0 00772      STA RNA  
 00742 0 77100 0 00022      ARS 18  
 00743 0 60100 0 00773      STO RNB  
 00744 -0 63400 4 00774      SXD RNC,4  
 00745 0 50000 0 00772 RN40   CLA RNA  
 00746 0 40000 0 00775      ADD RND  
 00747 0 34000 0 00773      CAS RNB  
 00750 0 76100 0 00000      NOP  
 00751 0 02000 0 00762      TRA RN50  
 00752 0 76700 0 00022      ALS 18  
 00753 0 40000 0 00772      ADD RNA  
 00754 0 60100 0 00760      STO RAN10  
 00755 0 77100 0 00022      ARS 18  
 00756 0 62100 0 00772      STA RNA  
 00757 0 07400 4 00776      TSX WOT,C  
 00760 0 00000 0 00000 RAN10   HTR  
 00761 0 02000 0 00745      TRA RN40  
 00762 0 50000 0 00773 RN50   CLA RNB  
 00763 0 76700 0 00022      ALS 18  
 00764 0 40000 0 00772      ADD RNA  
 00765 0 60100 0 00767      STO RN60

AC ZERO EXEPT FOR END BLANK  
TURN OFF INDICATOR

END BLANK WILL TURN ON INDICATOR

A	00766	0	07400	4	00776	TSX	WOT,C	
	00767	0	00000	0	00000	HTR		
	00770	-0	53400	4	00774	LXD	RNC,C	
	00771	0	02000	4	00002	TRA	2,C	
A	00772	0	00000	0	00000	RNA	HTR	
A	00773	0	00000	0	00000	RNB	HTR	
A	00774	0	00000	0	00000	RNC	HTR	
	00775	0	00000	0	00024	RND	HTR 20	
	00776	-0	63400	1	01073	WOT	SXD X1,1	
	00777	-0	63400	2	01101		SXD X2,2	
	01000	-0	50000	4	00001		CLA 1,4	
	01001	0	62200	0	01125		STD X4	X
	01002	0	77100	0	00022		ARS 18	X
	01003	0	40000	0	01125		ADD X4	X
	01004	0	62100	0	01032		STA C19	X
	01005	0	40200	4	00001		SUB 1,4	B-A+1 IN AC
	01006	0	10000	4	00002		TZE 2,4	
	01007	-0	12000	4	00002		TMI 2,4	
	01010	-0	63400	4	01125		SXD X4,4	
	01011	0	73400	4	00013	L11	PAX 11,4	
	01012	-0	63400	4	01123		SXD PR6,4	
	01013	0	76600	0	00361	RPR	WPR	
	01014	0	76100	0	00000		NOP	
	01015	-0	53400	4	01123		LXD PR6,4	X
D	01016	-2	00000	4	01022	PR8	TNX PR5,4	
	01017	-3	00014	4	01021		TXL PR3,4,12	
	01020	0	76000	0	00370		SPR 8	FIRST CYCLE
	01021	-0	53400	4	01123	PR3	LXD PR6,4	INITIALIZE GROUP COUNT
	01022	0	53400	2	01024	PR5	LXA PR7,2	INITIALIZE LEFT SETUP
	01023	-0	53400	1	01066		LXD YZ1,1	CLEAR CARD IMAGE
T	01024	-0	75400	0	00000	PR7	PXD	X
	01025	0	60200	1	01173	PR4	SLW LT,1	X
	01026	0	60200	1	01153		SLW RT,1	X
	01027	2	00001	1	01025		TIX PR4,1,1	X
	01030	-0	50000	0	01131	CIR	CAL COL1	INITIALIZE COLUMN INDICATOR
	01031	0	60200	0	01132	CI2	SLW COL	X
	01032	0	56000	4	00000	CI9	LDQ 0,4	OBTAIN GROUP
	01033	-0	63400	4	01226		SXD OZ2,4	STORE GROUP COUNT
	01034	0	53400	4	01036		LXA Q6,4	SET CHARACTER COUNT
T	01035	-0	75400	0	00000	CI1	PXD	
	01036	-0	76300	0	00006	Q6	LGL 6	
	01037	0	73400	1	00000		PAX 0,1	
	01040	-0	50000	0	01132		CAL COL	POSITION COLUMN INDICATOR
	01041	0	77100	4	00006		ARS 6,4	X
	01042	2	00020	1	01066		TIX YZ1,1,16	TEST FOR DIGIT
	01043	3	00017	1	01071		TXH YZ2,1,15	TEST FOR Y-ZONE
	01044	-0	60200	3	01170	CI5	ORS D,3	STORE DIGIT
	01045	2	00001	4	01035	CI4	TIX C11,4,1	COUNT CHARACTERS
	01046	0	77100	0	00001	CI3	ARS 1	SHIFT AND TEST COLUMN
	01047	-0	53400	4	01226		LXD OZ2,4	RESTORE GROUP COUNT
	01050	1	77777	4	01051		TXI C16,4,-1	COUNT GROUPS
D	01051	-3	00000	4	01053	CI6	TXL C17,4	TEST FOR LAST NON-BLANK GROUP
	01052	-0	10000	0	01031		TNZ C12	TEST FOR END OF ROW
	01053	-0	50000	2	01155	CI7	CAL 8,3,2	FORM TRUE 8,4

	01054	-0	60200	2	01160		ORS D-8,2	AND 3 ROWS AND
	01055	-0	60200	2	01165		ORS D-3,2	MOVE 8.4 AND 8.3
	01056	0	60200	2	01156		SLW 8.2,2	ROWS
	01057	-0	50000	2	01154		CAL 8.4,2	FORM TRUE 8.4
	01060	-0	60200	2	01160		ORS D-8,2	X
	01061	-0	60200	2	01164		ORS D-4,2	X
	01062	0	60200	2	01155		SLW 8.3,2	X
D	01063	-3	00000	4	01106	C18	TXL WP,4	TEST FOR END
	01064	3	00017	2	01106		TXH WP,2,15	TEST FOR RIGHT HALF
	01065	1	00020	2	01030		TXI C1R,2,16	INITIALIZE RIGHT HALF
	01066	2	00020	1	01074	YZ1	TIX XZ1,1,16	TEST FOR 16/CH/32
	01067	3	00017	1	01077		TXH XZ2,1,15	TEST FOR X-ZONE
	01070	-0	60200	3	01170		ORS D,3	STORE DIGIT
	01071	-0	60200	2	01172	YZ2	ORS Y,2	STORE Y-ZONE
	01072	2	00001	4	01035		TIX C1,4,1	COUNT CHARACTERS
TD	01073	-3	00000	0	01046	X1	TXL C13	OBTAIN NEXT GROUP
	01074	2	00020	1	01102	XZ1	TIX OZ1,1,16	TEST FOR 32/CH/48
	01075	3	00017	1	01045		TXH C14,1,15	TEST FOR BLANK
	01076	-0	60200	3	01170		ORS D,3	STORE DIGIT
	01077	-0	60200	2	01171	XZ2	ORS X,2	STORE X-ZONE
	01100	2	00001	4	01035		TIX C1,4,1	COUNT CHARACTERS
TD	01101	-3	00000	0	01046	X2	TXL C13	OBTAIN NEXT GROUP
	01102	-0	60200	2	01170	OZ1	ORS Z,2	STORE 0-ZONE
	01103	-0	60200	3	01170		ORS D,3	STORE DIGIT
	01104	2	00001	4	01035		TIX C1,4,1	COUNT CHARACTERS
TD	01105	-3	00000	0	01046		TXL C13	
	01106	0	53400	1	01226	WP7	LXA OZ,1	COPY LOOP
	01107	0	70000	1	01157	CRAN	CPY LT-12,1	
	01110	0	70000	1	01137		CPY RT-12,1	X
	01111	1	77777	1	01112		TXI T2,1,-1	
	01112	3	77764	1	01107	T2	TXH CRAN,1,-12	
D	01113	3	00000	4	01120	WP4	TXH WP5,4	
	01114	-0	53400	1	01073		LXD X1,1	NO, RELOAD INDEX REGISTERS AND RETURN
	01115	-0	53400	2	01101		LXD X2,2	X
	01116	-0	53400	4	01125	WT2	LXD X4,4	X
	01117	0	02000	4	00002	L2	TRA 2,4	X
	01120	0	76600	0	00361	WP5	WPR	
	01121	0	76000	0	00371	.	SPR 9	SECOND CYCLE
	01122	-3	00014	0	01022	WP2	TXL PR5,0,12	CONVERT REST OF LINE
A	01123	0	00000	0	00000	PR6	HTR	
	01124	606060606060				BLNKS	BCD 1	
A	01125	0	00000	0	00000	X4	HTR	
	01126	+000000000020				YZONE	OCT 20	
	01127	+000000000050				BNK	OCT 60	
	01130	+377777777777				MK2	OCT 377777777777	
	01131	-0	00000	0	00000	COL1	MZE	
					01132	COL	BSS 1	
					01153	RT	BES 16	
					01153	8.5	BSS 1	
					01154	8.4	BSS 1	
					01155	8.3	BSS 1	
					01156	8.2	BSS 1	
					01170	D	BES 9	
					01170	Z	BSS 1	

		01171	X	BSS	1	
		01172	Y	BSS	1	
		01173	LT	SYN	Y+1	
		01155	8.4L	SYN	LT-14	
		01135	8.4R	SYN	RT-14	
		01173		BSS	27	
A	01226	0	00000	0	00000	OZ HTR
						OZ2 SYN OZ
						01106 WP SYN WP7
	01227	+0000000	77777	ADDMSK	OCT	000000077777
	01230	+0777770	00000	DECMASK	OCT	077777000000
	01231	+0000000	000077	CHMASK	OCT	000000000077
	01232	0	00000	0	00000	ZERO HTR 0
	01233	+0000010	00000	DECONE	OCT	000001000000
	01234	0	00000	0	00000	PREFX1 HTR 0
	01235	0	00000	0	00000	ERWORD HTR 0
	01236	0	00000	0	00000	RECORD
	01237	6060606	06060	MACHIN	BCD	2
	01240	6060606	06060			
	01241	4421233	03145		BCD	3MACHINE ERROR
	01242	2560255	15146			
	01243	5160606	06060			
	01244	6060606	06060	SOURCE	BCD	2
	01245	6060606	06060			
	01246	6246645	12325		BCD	4SOURCE PROGRAM ERROR
	01247	6047514	62751			
	01250	2144602	55151			
	01251	4651606	06060			
	01252	6060606	06060	LOC	BCD	2
	01253	6060606	06060			
	01254	4346232	16331		BCD	3LOCATION
	01255	4645606	06060			
	01256	6060606	06060			
		01257	ERAS	BSS	20	
	01303	0	00000	0	00000	LOCREC HTR 0
	01304	+0010170	00000	OCT	001017000000	
	01305	0	00001	0	00000	HTR 0,0,1
	01306	+0000360	00000	OCT	000036000000	53
	01307	0	00170	0	00000	HTR 0,0,120 36
	01310	+0000370	00000	OCT	000037000000	90
	01311	0	00216	0	00000	HTR 0,0,142 37
	01312	+0000410	00000	OCT	000041000000	60
	01313	0	00047	0	00000	HTR 0,0,39 41
	01314	+0000460	00000	OCT	000046000000	90
	01315	0	00140	0	00000	HTR 0,0,96 46
	01316	+0000470	00000	OCT	000047000000	58
	01317	0	00047	0	00000	HTR 0,0,39 47
	01320	+0000510	00000	OCT	000051000000	56
	01321	0	00163	0	00000	HTR 0,0,115 51
	01322	+0000600	00000	OCT	000060000000	56
	01323	0	00205	0	00000	HTR 0,0,133 60
	01324	+0000610	00000	OCT	000061000000	47
	01325	0	00101	0	00000	HTR 0,0,65 61
	01326	+0000620	00000	OCT	000062000000	53

FOR PATCHING ETC.  
 ALL ERROR RECORDS READ IN HERE OVER LIST  
 ERROR IN 1 DOUBLE PRIME  
 ERROR RECORD 1

01327	0 00174 0 00000	HTR 0,0,124	62
01330	+000063000000	OCT 000063000000	53
01331	0 00174 0 00000	HTR 0,0,124	63
01332	+000064000000	OCT 000064000000	71
01333	0 00060 0 00000	HTR 0,0,48	64
01334	+000066000000	OCT 000066000000	53
01335	0 00174 0 00000	HTR 0,0,124	66
01336	+000067000000	OCT 000067000000	53
01337	0 00174 0 00000	HTR 0,0,124	67
01340	+000070000000	OCT 000070000000	92
01341	0 00047 0 00000	HTR 0,0,39	70
01342	+000072000000	OCT 000072000000	53
01343	-0 00174 0 00065	MZE 53,0,124	72
01344	+000072000000	OCT 000072000000	60
01345	0 00056 0 00000	HTR 0,0,46	72
01346	+000073000000	OCT 000073000000	53
01347	0 00174 0 00000	HTR 0,0,124	73
01350	+000074000000	OCT 000074000000	56
01351	0 00112 0 00000	HTR 0,0,74	74
01352	+000103000000	OCT 000103000000	67
01353	0 00060 0 00000	HTR 0,0,48	103
01354	+000106000000	OCT 000106000000	53
01355	0 00006 0 00000	HTR 0,0,6	106
01356	+000107000000	OCT 000107000000	58
01357	-0 00050 0 00072	MZE 58,0,40	107
01360	+000107000000	OCT 000107000000	92
01361	0 00046 0 00000	HTR 0,0,38	107
01362	+000116000000	OCT 000116000000	53
01363	0 00102 0 00000	HTR 0,0,66	116
01364	+000123000000	OCT 000123000000	47
01365	-0 00047 0 00057	MZE 47,0,39	123
01366	+000123000000	OCT 000123000000	53
01367	0 00160 0 00000	HTR 0,0,112	123
01370	+000124000000	OCT 000124000000	53
01371	0 00160 0 00000	HTR 0,0,112	124
01372	+000132000000	OCT 000132000000	53
01373	-0 00102 0 00065	MZE 53,0,66	132
01374	+000132000000	OCT 000132000000	60
01375	0 00274 0 00000	HTR 0,0,188	132
01376	+000140000000	OCT 000140000000	56
01377	0 00047 0 00000	HTR 0,0,39	140
01400	+000141000000	OCT 000141000000	92
01401	0 00142 0 00000	HTR 0,0,98	141
01402	+000150000000	OCT 000150000000	75
01403	0 00065 0 00000	HTR 0,0,53	150
01404	+000160000000	OCT 000160000000	67
01405	0 00060 0 00000	HTR 0,0,48	160
01406	+000161000000	OCT 000161000000	56
01407	0 00050 0 00000	HTR 0,0,40	161
01410	+000173000000	OCT 000173000000	60
01411	0 00274 0 00000	HTR 0,0,188	173
01412	+000216000000	OCT 000216000000	47
01413	0 00050 0 00000	HTR 0,0,40	216
01414	+000222000000	OCT 000222000000	94

01415	-0 00066 0 00136	MZE 94,0,54	222
01416	+000222000000	OCT 000222000000	105
01417	-0 00047 0 00151	MZE 105,0,39	222
01420	+000222000000	OCT 000222000000	107
01421	-0 00067 0 00153	MZE 107,0,55	222
01422	+000222000000	OCT 000222000000	115
01423	0 00047 0 00000	HTR 0,0,39	222
01424	+000223000000	OCT 000223000000	113
01425	0 00155 0 00000	HTR 0,0,109	223
01426	+000227000000	OCT 000227000000	60
01427	0 00274 0 00000	HTR 0,0,188	227
01430	+000230000000	OCT 000230000000	101
01431	0 00047 0 00000	HTR 0,0,39	230
01432	+000241000000	OCT 000241000000	107
01433	-0 00070 0 00153	MZE 107,0,56	241
01434	+000241000000	OCT 000241000000	115
01435	0 00046 0 00000	HTR 0,0,38	241
01436	+000245000000	OCT 000245000000	9
01437	-0 00147 0 00011	MZE 9,0,103	245
01440	+000245000000	OCT 000245000000	105
01441	0 00046 0 00000	HTR 0,0,38	245
01442	+000246000000	OCT 000246000000	92
01443	0 00047 0 00000	HTR 0,0,39	246
01444	+003672000000	OCT 003672000000	115
01445	0 00222 0 00000	HTR 0,0,146	3672
01446	+000247000000	OCT 000247000000	101
01447	0 00046 0 00000	HTR 0,0,38	247
01450	+000252000000	OCT 000252000000	60
01451	-0 00274 0 00074	MZE 60,0,188	252
01452	+000252000000	OCT 000252000000	105
01453	0 00244 0 00000	HTR 0,0,164	252
01454	+000255000000	OCT 000255000000	103
01455	0 00156 0 00000	HTR 0,0,110	255
01456	+000256000000	OCT 000256000000	73
01457	0 00060 0 00000	HTR 0,0,48	256
01460	+000260000000	OCT 000260000000	96
01461	-0 00046 0 00140	MZE 96,0,38	260
01462	+000260000000	OCT 000260000000	98
01463	0 00046 0 00000	HTR 0,0,38	260
01464	+000263000000	OCT 000263000000	67
01465	0 00060 0 00000	HTR 0,0,48	263
01466	+000264000000	OCT 000264000000	7
01467	0 00150 0 00000	HTR 0,0,104	264
01470	+000270000000	OCT 000270000000	56
01471	0 00017 0 00000	HTR 0,0,15	270
01472	+000277000000	OCT 000277000000	92
01473	-0 00046 0 00134	MZE 92,0,38	277
01474	+000277000000	OCT 000277000000	113
01475	0 00037 0 00000	HTR 0,0,31	277
01476	+000301000000	OCT 000301000000	67
01477	0 00247 0 00000	HTR 0,0,167	301
01500	+003730000000	OCT 003730000000	115
01501	0 00151 0 00000	HTR 0,0,105	3730
01502	+000303000000	OCT 000303000000	73



01503	0 00124 0 00000	HTR 0,0,84	303
01504	+000305000000	OCT 000305000000	56
01505	-0 00047 0 00070	MZE 56,0,39	305
01506	+000305000000	OCT 000305000000	60
01507	0 00274 0 00000	HTR 0,0,188	305
01510	+000311000000	OCT 000311000000	9
01511	0 00152 0 00000	HTR 0,0,106	311
01512	+000312000000	OCT 000312000000	113
01513	0 00245 0 00000	HTR 0,0,165	312
01514	+000314000000	OCT 000314000000	90
01515	0 00167 0 00000	HTR 0,0,119	314
01516	+000321000000	OCT 000321000000	90
01517	0 00217 0 00000	HTR 0,0,143	321
01520	+000327000000	OCT 000327000000	86
01521	0 00133 0 00000	HTR 0,0,91	327
01522	+000330000000	OCT 000330000000	90
01523	0 00141 0 00000	HTR 0,0,97	330
01524	+000331000000	OCT 000331000000	58
01525	0 00164 0 00000	HTR 0,0,116	331
01526	+000334000000	OCT 000334000000	56
01527	-0 00050 0 00070	MZE 56,0,40	334
01530	+000334000000	OCT 000334000000	60
01531	0 00274 0 00000	HTR 0,0,188	334
01532	+000336000000	OCT 000336000000	86
01533	0 00213 0 00000	HTR 0,0,139	336
01534	+000340000000	OCT 000340000000	58
01535	0 00206 0 00000	HTR 0,0,134	340
01536	+000341000000	OCT 000341000000	96
01537	-0 00040 0 00140	MZE 96,0,32	341
01540	+000341000000	OCT 000341000000	67
01541	-0 00060 0 00103	MZE 67,0,48	341
01542	+000341000000	OCT 000341000000	98
01543	0 00040 0 00000	HTR 0,0,32	341
01544	+000345000000	OCT 000345000000	5
01545	0 00242 0 00000	HTR 0,0,162	345
01546	+000350000000	OCT 000350000000	58
01547	-0 00113 0 00072	MZE 58,0,75	350
01550	+000350000000	OCT 000350000000	62
01551	0 00125 0 00000	HTR 0,0,85	350
01552	+000352000000	OCT 000352000000	113
01553	0 00041 0 00000	HTR 0,0,33	352
01554	+000354000000	OCT 000354000000	64
01555	0 00235 0 00000	HTR 0,0,157	354
01556	+000356000000	OCT 000356000000	92
01557	0 00143 0 00000	HTR 0,0,99	356
01560	+000357000000	OCT 000357000000	58
01561	0 00165 0 00000	HTR 0,0,117	357
01562	+000363000000	OCT 000363000000	60
01563	0 00274 0 00000	HTR 0,0,188	363
01564	+000366000000	OCT 000366000000	58
01565	0 00207 0 00000	HTR 0,0,135	366
01566	+000375000000	OCT 000375000000	58
01567	0 00114 0 00000	HTR 0,0,76	375
01570	+000377000000	OCT 000377000000	56

01571 -0 00274 0 00070  
01572 +000377000000  
01573 0 00042 0 00000  
01574 +000410000000  
01575 -0 00115 0 00072  
01576 +000410000000  
01577 0 00153 0 00000  
01600 +000417000000  
01601 0 00210 0 00000  
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01603 0 00274 0 00000  
01604 +000425000000  
01605 -0 00036 0 00103  
01606 +000425000000  
01607 -0 00267 0 00111  
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01614 +000430000000  
01615 0 00116 0 00000  
01616 +000434000000  
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01620 +000437000000  
01621 0 00134 0 00000  
01622 +000441000000  
01623 0 00044 0 00000  
01624 +000442000000  
01625 -0 00274 0 00074  
01626 +000442000000  
01627 0 00047 0 00000  
01630 +000443000000  
01631 0 00243 0 00000  
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01633 0 00117 0 00000  
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01635 -0 00211 0 00076  
01636 +000454000000  
01637 0 00024 0 00000  
01640 +000460000000  
01641 0 00154 0 00000  
01642 +000465000000  
01643 0 00046 0 00000  
01644 +000500000000  
01645 0 00047 0 00000  
01646 +000510000000  
01647 -0 00120 0 00070  
01650 +000510000000  
01651 0 00270 0 00000  
01652 +000517000000  
01653 0 00126 0 00000  
01654 +000520000000  
01655 -0 00121 0 00070  
01656 +000520000000

MZE 56,0,188  
OCT 000377000000  
HTR 0,0,34  
OCT 000410000000  
MZE 58,0,77  
OCT 000410000000  
HTR 0,0,107  
OCT 000417000000  
HTR 0,0,136  
OCT 000424000000  
HTR 0,0,188  
OCT 000425000000  
MZE 67,0,30  
OCT 000425000000  
MZE 73,0,183  
OCT 000425000000  
HTR 0,0,38  
OCT 000427000000  
HTR 0,0,147  
OCT 000430000000  
HTR 0,0,78  
OCT 000434000000  
HTR 0,0,19  
OCT 000437000000  
HTR 0,0,92  
OCT 000441000000  
HTR 0,0,36  
OCT 000442000000  
MZE 60,0,188  
OCT 000442000000  
HTR 0,0,39  
OCT 000443000000  
HTR 0,0,163  
OCT 000446000000  
HTR 0,0,79  
OCT 000454000000  
MZE 62,0,137  
OCT 000454000000  
HTR 0,0,20  
OCT 000460000000  
HTR 0,0,108  
OCT 000465000000  
HTR 0,0,38  
OCT 000500000000  
HTR 0,0,39  
OCT 000510000000  
MZE 56,0,80  
OCT 000510000000  
HTR 0,0,184  
OCT 000517000000  
HTR 0,0,86  
OCT 000520000000  
MZE 56,0,81  
OCT 000520000000

377  
115  
377  
58  
410  
96  
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517  
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520  
113

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01662 +000524000000  
01663 0 00166 0 00000  
01664 +000533000000  
01665 0 00033 0 00000  
01666 +000534000000  
01667 0 00212 0 00000  
01670 +000544000000  
01671 0 00274 0 00000  
01672 +000546000000  
01673 0 00043 0 00000  
01674 +000553000000  
01675 0 00127 0 00000  
01676 +000556000000  
01677 0 00237 0 00000  
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01707 0 00047 0 00000  
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01717 0 00025 0 00000  
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01723 0 00246 0 00000  
01724 +000674000000  
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01726 +000707000000  
01727 0 00024 0 00000  
01730 +000711000000  
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01743 0 00020 0 00000  
01744 +000756000000

HTR 0,0,163 520  
OCT 000521000000 60  
HTR 0,0,188 521  
OCT 000524000000 62  
HTR 0,0,118 524  
OCT 000533000000 92  
HTR 0,0,27 533  
OCT 000534000000 62  
HTR 0,0,138 534  
OCT 000544000000 60  
HTR 0,0,188 544  
OCT 000546000000 2  
HTR 0,0,35 546  
OCT 000553000000 62  
HTR 0,0,87 553  
OCT 000556000000 64  
HTR 0,0,159 556  
OCT 000562000000 92  
MZE 92,0,100 562  
OCT 000562000000 113  
HTR 0,0,37 562  
OCT 000604000000 92  
HTR 0,0,28 604  
OCT 000607000000 60  
HTR 0,0,39 607  
OCT 000613000000 56  
HTR 0,0,188 613  
OCT 000624000000 98  
HTR 0,0,148 624  
OCT 000627000000 60  
HTR 0,0,40 627  
OCT 000643000000 64  
HTR 0,0,21 643  
OCT 000654000000 56  
HTR 0,0,188 654  
OCT 000661000000 75  
HTR 0,0,166 661  
OCT 000674000000 60  
HTR 0,0,82 674  
OCT 000707000000 64  
HTR 0,0,20 707  
OCT 000711000000 62  
HTR 0,0,158 711  
OCT 000716000000 62  
HTR 0,0,88 716  
OCT 000720000000 60  
HTR 0,0,83 720  
OCT 000734000000 45  
HTR 0,0,39 734  
OCT 000747000000 56  
HTR 0,0,16 747  
OCT 000750000000 56  
HTR 0,0,16 750  
OCT 000756000000 64

01745 0 00026 0 00000  
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01747 0 00251 0 00000  
01750 +000765000000  
01751 0 00145 0 00000  
01752 +001000000000  
01753 0 00274 0 00000  
01754 +001001000000  
01755 0 00157 0 00000  
01756 +001006000000  
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01762 +001023000000  
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01764 +001031000000  
01765 0 00075 0 00000  
01766 +001041000000  
01767 0 00027 0 00000  
01770 +001076000000  
01771 0 00253 0 00000  
01772 +001135000000  
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01774 +001135000000  
01775 0 00146 0 00000  
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02003 0 00132 0 00000  
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02007 -0 00076 0 00026  
02010 +001221000000  
02011 0 00215 0 00000  
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02013 0 00063 0 00000  
02014 +001234000000  
02015 0 00271 0 00000  
02016 +001240000000  
02017 0 00135 0 00000  
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02023 0 00071 0 00000  
02024 +001307000000  
02025 0 00252 0 00000  
02026 +001320000000  
02027 0 00274 0 00000  
02030 +001341000000  
02031 0 00220 0 00000  
02032 +001345000000

HTR 0,0,22 756  
OCT 000762000000 75  
HTR 0,0,169 762  
OCT 000765000000 92  
HTR 0,0,101 765  
OCT 001000000000 56  
HTR 0,0,188 1000  
OCT 001001000000 24  
HTR 0,0,111 1001  
OCT 001006000000 45  
HTR 0,0,45 1006  
OCT 001022000000 75  
HTR 0,0,166 1022  
OCT 001023000000 64  
HTR 0,0,89 1023  
OCT 001031000000 24  
HTR 0,0,61 1031  
OCT 001041000000 64  
HTR 0,0,23 1041  
OCT 001076000000 45  
HTR 0,0,171 1076  
OCT 001135000000 62  
MZE 62,0,47 1135  
OCT 001135000000 92  
HTR 0,0,102 1135  
OCT 001141000000 45  
HTR 0,0,40 1141  
OCT 001160000000 22  
HTR 0,0,191 1160  
OCT 001175000000 62  
HTR 0,0,90 1175  
OCT 001211000000 75  
HTR 0,0,140 1211  
OCT 001221000000 22  
MZE 22,0,62 1221  
OCT 001221000000 75  
HTR 0,0,141 1221  
OCT 001231000000 45  
HTR 0,0,51 1231  
OCT 001234000000 62  
HTR 0,0,185 1234  
OCT 001240000000 75  
HTR 0,0,93 1240  
OCT 001261000000 62  
HTR 0,0,186 1261  
OCT 001274000000 22  
HTR 0,0,57 1274  
OCT 001307000000 22  
HTR 0,0,170 1307  
OCT 001320000000 56  
HTR 0,0,188 1320  
OCT 001341000000 92  
HTR 0,0,144 1341  
OCT 001345000000 22

02033	0 00072 0 00000	HTR 0,0,58	1345
02034	+001347000000	OCT 001347000000	92
02035	0 00221 0 00000	HTR 0,0,145	1347
02036	+001377000000	OCT 001377000000	22
02037	0 00073 0 00000	HTR 0,0,59	1377
02040	+001444000000	OCT 001444000000	22
02041	0 00074 0 00000	HTR 0,0,60	1444
02042	+001531000000	OCT 001531000000	56
02043	0 00274 0 00000	HTR 0,0,188	1531
02044	+001634000000	OCT 001634000000	75
02045	0 00251 0 00000	HTR 0,0,169	1634
02046	+001767000000	OCT 001767000000	56
02047	0 00274 0 00000	HTR 0,0,188	1767
02050	+001777000000	OCT 001777000000	75
02051	0 00251 0 00000	HTR 0,0,169	1777
02052	+002230000000	OCT 002230000000	75
02053	0 00273 0 00000	HTR 0,0,187	2230
02054	+002155000000	OCT 002155000000	56
02055	0 00021 0 00000	HTR 0,0,17	2155
02056	+002163000000	OCT 002163000000	56
02057	0 00022 0 00000	HTR 0,0,18	2163
02060	+002655000000	OCT 002655000000	75
02061	0 00031 0 00000	HTR 0,0,25	2655
02062	+003001000000	OCT 003001000000	88
02063	0 00240 0 00000	HTR 0,0,160	3001
02064	+003064000000	OCT 003064000000	65
02065	0 00250 0 00000	HTR 0,0,168	3064
02066	+003143000000	OCT 003143000000	65
02067	0 00060 0 00000	HTR 0,0,48	3143
02070	+003156000000	OCT 003156000000	65
02071	0 00030 0 00000	HTR 0,0,24	3156
02072	+003253000000	OCT 003253000000	88
02073	0 00241 0 00000	HTR 0,0,161	3253
02074	+003540000000	OCT 003540000000	88
02075	0 00136 0 00000	HTR 0,0,94	3540
02076	+004006000000	OCT 004006000000	51
02077	0 00053 0 00000	HTR 0,0,43	4006
02100	+004007000000	OCT 004007000000	51
02101	0 00053 0 00000	HTR 0,0,43	4007
02102	+004026000000	OCT 004026000000	51
02103	0 00103 0 00000	HTR 0,0,67	4026
02104	+004031000000	OCT 004031000000	75
02105	0 00251 0 00000	HTR 0,0,169	4031
02106	+004035000000	OCT 004035000000	51
02107	0 00200 0 00000	HTR 0,0,128	4035
02110	+004040000000	OCT 004040000000	51
02111	0 00007 0 00000	HTR 0,0,7	4040
02112	+004054000000	OCT 004054000000	51
02113	0 00104 0 00000	HTR 0,0,68	4054
02114	+004124000000	OCT 004124000000	51
02115	0 00256 0 00000	HTR 0,0,174	4124
02116	+004155000000	OCT 004155000000	34
02117	0 00105 0 00000	HTR 0,0,69	4155
02120	+004157000000	OCT 004157000000	51

02121	0 00257 0 00000	HTR 0,0,175	4157
02122	+004160000000	OCT 004160000000	34
02123	0 00010 0 00000	HTR 0,0,8	4160
02124	+004161000000	OCT 004161000000	34
02125	0 00201 0 00000	HTR 0,0,129	4161
02126	+004303000000	OCT 004303000000	75
02127	0 00251 0 00000	HTR 0,0,169	4303
02130	+004307000000	OCT 004307000000	51
02131	0 00064 0 00000	HTR 0,0,52	4307
02132	+004417000000	OCT 004417000000	88
02133	0 00171 0 00000	HTR 0,0,121	4417
02134	+004405000000	OCT 004405000000	34
02135	0 00260 0 00000	HTR 0,0,176	4405
02136	+004453000000	OCT 004453000000	88
02137	0 00137 0 00000	HTR 0,0,95	4453
02140	+004533000000	OCT 004533000000	51
02141	0 00261 0 00000	HTR 0,0,177	4533
02142	+004570000000	OCT 004570000000	34
02143	0 00061 0 00000	HTR 0,0,49	4570
02144	+004623000000	OCT 004623000000	51
02145	0 00254 0 00000	HTR 0,0,172	4623
02146	+004666000000	OCT 004666000000	51
02147	0 00050 0 00000	HTR 0,0,40	4666
02150	+005037000000	OCT 005037000000	34
02151	0 00011 0 00000	HTR 0,0,9	5037
02152	+005232000000	OCT 005232000000	34
02153	0 00255 0 00000	HTR 0,0,173	5232
02154	+005273000000	OCT 005273000000	34
02155	0 00275 0 00000	HTR 0,0,189	5273
02156	+005560000000	OCT 005560000000	34
02157	0 00051 0 00000	HTR 0,0,41	5560
02160	+005721000000	OCT 005721000000	27
02161	0 00262 0 00000	HTR 0,0,178	5721
02162	+005742000000	OCT 005742000000	27
02163	0 00231 0 00000	HTR 0,0,153	5742
02164	+005763000000	OCT 005763000000	27
02165	0 00231 0 00000	HTR 0,0,153	5763
02166	+005764000000	OCT 005764000000	27
02167	0 00231 0 00000	HTR 0,0,153	5764
02170	+005773000000	OCT 005773000000	51
02171	0 00232 0 00000	HTR 0,0,154	5773
02172	+006004000000	OCT 006004000000	32
02173	0 00225 0 00000	HTR 0,0,149	6004
02174	+006044000000	OCT 006044000000	27
02175	0 00012 0 00000	HTR 0,0,10	6044
02176	+006063000000	OCT 006063000000	32
02177	0 00275 0 00000	HTR 0,0,189	6063
02200	+006065000000	OCT 006065000000	27
02201	0 00013 0 00000	HTR 0,0,11	6065
02202	+006234000000	OCT 006234000000	51
02203	0 00014 0 00000	HTR 0,0,12	6234
02204	+006253000000	OCT 006253000000	32
02205	0 00263 0 00000	HTR 0,0,179	6253
02206	+006256000000	OCT 006256000000	32

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02212 +006357000000  
02213 0 00050 0 00000  
02214 +006373000000  
02215 0 00227 0 00000  
02216 +006376000000  
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02223 0 00275 0 00000  
02224 +006534000000  
02225 0 00012 0 00000  
02226 +006635000000  
02227 0 00264 0 00000  
02230 +006710000000  
02231 0 00226 0 00000  
02232 +006736000000  
02233 0 00161 0 00000  
02234 +006737000000  
02235 0 00161 0 00000  
02236 +006744000000  
02237 0 00106 0 00000  
02240 +006762000000  
02241 0 00050 0 00000  
02242 +006765000000  
02243 0 00054 0 00000  
02244 +006767000000  
02245 0 00107 0 00000  
02246 +007023000000  
02247 0 00265 0 00000  
02250 +007027000000  
02251 0 00050 0 00000  
02252 +007045000000  
02253 0 00016 0 00000  
02254 +007052000000  
02255 0 00202 0 00000  
02256 +007053000000  
02257 0 00172 0 00000  
02260 +007056000000  
02261 0 00202 0 00000  
02262 +007057000000  
02263 0 00172 0 00000  
02264 +007070000000  
02265 0 00110 0 00000  
02266 +007073000000  
02267 0 00266 0 00000  
02270 +007075000000  
02271 0 00175 0 00000  
02272 +007076000000  
02273 0 00175 0 00000  
02274 +007100000000

HTR 0,0,179  
OCT 006353000000  
HTR 0,0,155  
OCT 006357000000  
HTR 0,0,40  
OCT 006373000000  
HTR 0,0,151  
OCT 006376000000  
HTR 0,0,152  
OCT 006432000000  
HTR 0,0,13  
OCT 006475000000  
HTR 0,0,189  
OCT 006534000000  
HTR 0,0,10  
OCT 006635000000  
HTR 0,0,180  
OCT 006710000000  
HTR 0,0,150  
OCT 006736000000  
HTR 0,0,113  
OCT 006737000000  
HTR 0,0,113  
OCT 006744000000  
HTR 0,0,70  
OCT 006762000000  
HTR 0,0,40  
OCT 006765000000  
HTR 0,0,44  
OCT 006767000000  
HTR 0,0,71  
OCT 007023000000  
HTR 0,0,181  
OCT 007027000000  
HTR 0,0,40  
OCT 007045000000  
HTR 0,0,14  
OCT 007052000000  
HTR 0,0,130  
OCT 007053000000  
HTR 0,0,122  
OCT 007056000000  
HTR 0,0,130  
OCT 007057000000  
HTR 0,0,122  
OCT 007070000000  
HTR 0,0,72  
OCT 007073000000  
HTR 0,0,182  
OCT 007075000000  
HTR 0,0,125  
OCT 007076000000  
HTR 0,0,125  
OCT 007100000000

6256  
51  
6353  
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7052  
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7053  
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7056  
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7057  
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7073  
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7076  
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02275 0 00035 0 00000  
 02276 +007103000000  
 02277 0 00203 0 00000  
 02300 +007110000000  
 02301 0 00234 0 00000  
 02302 +007112000000  
 02303 0 00162 0 00000  
 02304 +007123000000  
 02305 0 00111 0 00000  
 02306 +007135000000  
 02307 0 00204 0 00000  
 02310 +007143000000  
 02311 0 00274 0 00000  
 02312 +007250000000  
 02313 0 00173 0 00000  
 02314 +007303000000  
 02315 0 00016 0 00000  
 02316 +007320000000  
 02317 0 00005 0 00000  
 02320 +007454000000  
 02321 0 00032 0 00000  
 02322 +007555000000  
 02323 0 00177 0 00000  
 02324 +007563000000  
 02325 0 00176 0 00000  
 02326 +007620000000  
 02327 0 00276 0 00000  
 02330 +007627000000  
 02331 0 00100 0 00000  
 02332 +007632000000  
 02333 0 00011 0 00000  
 02334 +007720000000  
 02335 0 00077 0 00000  
 02336 +007751000000  
 02337 -0 00300 0 00026  
 02340 +007751000000  
 02341 0 00062 0 00000  
 02342 +007760000000  
 02343 0 00052 0 00000  
 02344 +016004000000  
 02345 0 00032 0 00000  
 02346 0 01042 0 00000  
 03534 -0 53400 4 00313  
 03535 0 76200 0 00304  
 03536 0 46000 0 00313  
 03537 0 02000 0 00000  
 03540 606060606060  
 03541 606060606060  
 03542 606060606060  
 03543 606060606060  
 03544 606060606060  
 03545 606060606060  
 03546 606060606060

HTR 0,0,29  
 OCT 007103000000  
 HTR 0,0,131  
 OCT 007110000000  
 HTR 0,0,156  
 OCT 007112000000  
 HTR 0,0,114  
 OCT 007123000000  
 HTR 0,0,73  
 OCT 007135000000  
 HTR 0,0,132  
 OCT 007143000000  
 HTR 0,0,188  
 OCT 007250000000  
 HTR 0,0,123  
 OCT 007303000000  
 HTR 0,0,14  
 OCT 007320000000  
 HTR 0,0,5  
 OCT 007454000000  
 HTR 0,0,26  
 OCT 007555000000  
 HTR 0,0,127  
 OCT 007563000000  
 HTR 0,0,126  
 OCT 007620000000  
 HTR 0,0,190  
 OCT 007627000000  
 HTR 0,0,64  
 OCT 007632000000  
 HTR 0,0,9  
 OCT 007720000000  
 HTR 0,0,63  
 OCT 007751000000  
 MZE 22,0,192  
 OCT 007751000000  
 HTR 0,0,50  
 OCT 007760000000  
 HTR 0,0,42  
 OCT 016004000000  
 HTR 0,0,26  
 ERLIST HTR 0,0,ERLIST-1-LOCREC  
 03534 ORG83534  
 ENDPCH LXD DRUM,4  
 RDR 4  
 LDA DRUM  
 TRA 0  
 MACEN BCD 7

7100  
 27  
 7103  
 43  
 7110  
 27  
 7112  
 27  
 7123  
 27  
 7135  
 55  
 7143  
 27  
 7250  
 41  
 7303  
 27 DO NEST  
 7320 DO NESTING  
 75  
 7454  
 21  
 7555  
 21  
 7563  
 21  
 7620  
 21  
 7627  
 36  
 7632  
 21  
 7720  
 21  
 7751  
 36  
 7751  
 30  
 7760  
 75  
 16004  
 DEC HAS NUMBER OF ENTRIES SO FAR

612



03547 475125626260  
03550 626321516360  
03551 312660704664  
03552 606631623060  
03553 634660512540  
03554 516445604751  
03555 462243254460  
03556 606060606060  
03557 606060606060  
03560 606060606060  
03561 606060606060  
03562 606060606060  
03563 606060606060  
03564 606060606060  
03565 606060606060  
03566 606060606060  
03567 606060606060  
03570 606060606060  
03571 606060606060  
03572 606060606060  
03573 465160422570  
03574 603145600007  
03575 060000006000  
03576 000001040160  
03577 606060606060  
03600 606060606060  
03601 606060606060  
03602 606060606060  
03603 606060606060  
03604 606060606060  
03605 606060606060  
03606 606060606060  
03607 606060606060  
03610 606060606060  
03611 606060606060  
03612 606060606060  
03613 606060606060  
03614 606060606060  
03615 606060606060  
03616 606060606060  
03617 214524604751  
03620 256262606263  
03621 215163603126  
03622 607046646066  
03623 316230606346  
03624 602346456331  
03625 458425602221  
03626 632330602346  
03627 444731433145  
03630 276060606060  
03631 0 00000 0 00000 XZY  
00000

BCD PRESS START IF YOU WISH TO RE-RUN PROBLEM

BCD

BCD OR KEY IN 076000 000141

BCD

BCD AND PRESS START IF YOU WISH TO CONTINUE BATCH COMPILING

A

END

1  
 1  
 00003 0 01303 0 01330  
 TD 01303 3 00000 0 00003  
 01304 0 50000 0 01235  
 01305 0 77100 0 00022  
 01306 0 07400 4 00730  
 01307 0 60200 0 01315  
 01310 0 07400 4 00740  
 01311 0 01331 0 01313  
 01312 0 02000 0 00221  
 01313 606060606060 PR  
 01314 606060606060  
 A 01315 0 00000 0 00000 NOLIST HTR  
 01316 606330316260  
 01317 255151465160  
 01320 316260454663  
 01321 604331626325  
 01322 246031456063  
 01323 302560243121  
 01324 274546626331  
 01325 236047514627  
 01326 512144602551  
 01327 514651604331  
 01330 626333606060  
 A 01331 0 00000 0 00000 X  
 00000

FORCE NEW RECORD  
 ORG 3  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 3  
 CLA ERWORD  
 ARS 18  
 TSX OCTBCD,4  
 SLW NOLIST  
 TSX PRINT,4  
 HTR PR,0,PR+14  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE

STOP NOT IN THIS LIST

BCD THIS ERROR IS NOT LISTED IN THE DIAGNOSTIC PROGRAM ERROR LI

BCD 1ST.

END

1  
1

ORG 4

00004 0 01303 0 03533  
01303 3 00000 0 00004  
01304 -0 53400 1 00030  
01305 2 00001 1 01307  
01306 -0 53400 1 01232  
01307 -0 63400 1 01334 A  
01310 -0 53400 1 01232  
01311 0 76600 0 00361 AB  
01312 -0 53400 2 01232  
01313 0 50000 1 77777  
01314 -0 32000 0 01230  
01315 0 40200 0 01234  
01316 -0 32000 0 01230  
01317 0 34000 2 03532 AE  
01320 0 02000 0 01322  
01321 0 02000 0 01325  
01322 1 00002 2 01323 AC  
01323 -3 00076 2 01317 AD  
01324 0 02000 0 01330  
01325 0 50000 2 03533 BHAV  
01326 0 62100 0 01327  
01327 0 02000 0 00000 BA  
01330 0 76400 0 00201 NO  
01331 0 76400 0 00201  
01332 0 60100 0 01235  
01333 0 02000 0 00137  
01334 -3 00000 1 01311 NXTER  
01335 0 76600 0 00361  
01336 0 50000 0 00316  
01337 0 60100 0 00271  
01340 0 02000 0 00272  
01341 0 50000 1 77776 TEIFNO  
01342 -0 32000 0 01227  
01343 0 07400 4 00676  
01344 0 60200 0 01355  
01345 0 07400 4 00740  
01346 0 01365 0 01350  
01347 1 00002 1 01334  
01350 60606060606060 PRTEIF  
01351 60606060606060  
01352 633025602646  
01353 514464432160  
01354 456444222551  
01355 0 00000 0 00000 TBETA  
01356 603162602464  
01357 474331232163  
01360 252460314560  
01361 633025606246  
01362 645123256047  
01363 514627512144  
01364 606060606060

FORCE NEW RECORD

ORG 4  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 4  
LXD 24,1  
TIX A,1,1  
LXD ZERO,1  
SXD NXTER,1  
LXD ZERO,1  
WPR  
LXD ZERO,2  
CLA LIST,1  
ANA DECMSK  
SUB PREFX1  
ANA DECMSK  
CAS ER1PRM,2  
TRA AC  
TRA BHAV  
TXI AD,2,2  
TXL AE,2,62  
TRA NO  
CLA ER1PRM+1,2  
STA BA  
TRA  
BST 1  
BST 1  
STO ERWORD  
TRA LXDA  
TXL AB,1,0  
WPR  
CLA HTR4  
STO DONE+3  
TRA SPEND  
CLA LIST-1,1  
ANA ADDMSK  
TSX BINDEC,4  
SLW TBETA  
TSX PRINT,4  
HTR PRTEIF,0,PRTEIF+13  
TXI NXTER,1,2  
BCD 2  
BCD 3THE FORMULA NUMBER  
HTR  
BCD 7 IS DUPLICATED IN THE SOURCE PROGRAM

FORCE NEW RECORD  
CARD FOR DE

1 DOUBLE PRIME  
IN DEC OF 24,1 NUMBER OF ENTRIES  
MADE BY NON-ARITHMETIC DIAGNOSTIC

SET END OF ERROR LIST TEST

SPACE BETWEEN ERROR COMMENTS

GET UNCOMPLIMENTED LOCATION

2 WORD ENTRIES IN THIS LIST

62 STOPS IN LIST SO FAR  
CANNOT IDENTIFY

SPACE BACK TO PRINT RECORD ZERO

AND SAVE OCTAL LOCATION

NUMBER OF ERROR ENTRIES MINUS 1  
FINISHED WITH ERROR LIST, SPACE PRINTER

BETA, WHICH IS DUPLICATED IN SOURCE  
PROGRAM, IS IN ADDRESS OF LIST

2WORD ENTRIES IN ERROR LIST

01365	0	50000	0	01541	MINB1	CLA	ADTMI
01366	0	73400	4	00000		PAX	0,4
01367	0	62100	0	01504		STA	WHICHA
01370	-0	50000	0	01445		CAL	N1
01371	1	00042	4	01451		TXI	BETAPR,4,34
01372	0	50000	0	01541	MINB2	CLA	ADTMI
01373	0	73400	4	00000		PAX	0,4
01374	0	62100	0	01504		STA	WHICHA
01375	-0	50000	0	01446		CAL	N2
01376	1	00042	4	01451		TXI	BETAPR,4,34
01377	0	50000	0	01541	MINB3	CLA	ADTMI
01400	0	73400	4	00000		PAX	0,4
01401	0	62100	0	01504		STA	WHICHA
01402	-0	50000	0	01447		CAL	N3
01403	1	00042	4	01451		TXI	BETAPR,4,34
01404	0	50000	0	01542	TSXTFO	CLA	ADTZR
01405	0	73400	4	00000		PAX	0,4
01406	0	62100	0	01504		STA	WHICHA
01407	-0	50000	0	01444		CAL	N
01410	1	00042	4	01451		TXI	BETAPR,4,34
01411	0	50000	0	01543	BTIFG1	CLA	ADT1
01412	0	73400	4	00000		PAX	0,4
01413	0	62100	0	01504		STA	WHICHA
01414	-0	50000	0	01443		CAL	SOMN
01415	1	00042	4	01451		TXI	BETAPR,4,34
01416	0	50000	0	01544	BTIFG2	CLA	ADT2
01417	0	02000	0	01412		TRA	BTIFG1+1
01420	0	50000	0	01545	B1TIF3	CLA	ADT3
01421	0	02000	0	01366		TRA	MINB1+1
01422	0	50000	0	01545	B2TIF3	CLA	ADT3
01423	0	02000	0	01373		TRA	MINB2+1
01424	0	50000	0	01546	B1TIF4	CLA	ADT4
01425	0	02000	0	01366		TRA	MINB1+1
01426	0	50000	0	01546	B2TIF4	CLA	ADT4
01427	0	02000	0	01373		TRA	MINB2+1
01430	0	50000	0	01547	B1TIF5	CLA	ADT5
01431	0	02000	0	01366		TRA	MINB1+1
01432	0	50000	0	01547	B2TIF5	CLA	ADT5
01433	0	02000	0	01373		TRA	MINB2+1
01434	0	50000	0	01550	TIF6B	CLA	ADT6
01435	0	02000	0	01405		TRA	TSXTFO+1
01436	0	50000	0	01551	DONOB	CLA	ADDO
01437	0	73400	4	00000		PAX	0,4
01440	0	62100	0	01504		STA	WHICHA
01441	-0	50000	0	01450		CAL	B
01442	1	00016	4	01451		TXI	BETAPR,4,14
01443	624644256045				SOMN	BCD	1SOME N
01444	456060606060				N	BCD	1N
01445	450160606060				N1	BCD	1N1
01446	450260606060				N2	BCD	1N2
01447	450360606060				N3	BCD	1N3
01450	226060606060				B	BCD	1B
01451	-0	63400	4	01504	BETAPR	SXD	WHICHA,4
01452	0	60200	0	01526	SLW	BETA	AWD

SELECT ADDRESS OF PARTICULAR TIFGO ENTRY  
FOR PRINT ROUTINE

AND PICK UP BCD FOR COMMENT  
ADD LENGTH OF COMMENT TO ADDRESS

SAME PROCESS AS FOR TIFGO ENTRIES

SOME TIFGO, OR DO, STATEMENT REFERS TO  
A NONEXISTANT BETA

01453 0 56000 0 01526  
 01454 -0 50000 0 01525  
 01455 0 77100 0 00022  
 01456 -0 76300 0 00022  
 01457 0 60200 0 01525  
 01460 -0 76300 0 00022  
 01461 0 56000 0 00717  
 01462 -0 76300 0 00022  
 01463 0 60200 0 01526  
 01464 0 50000 1 77777  
 01465 0 07400 4 00613  
 01466 0 07400 4 00602  
 01467 0 60200 0 01513  
 01470 0 56000 0 01513  
 01471 -0 50000 0 01512  
 01472 0 77100 0 00006  
 01473 -0 76300 0 00006  
 01474 0 60200 0 01512  
 01475 -0 76300 0 00036  
 01476 0 56000 0 00717  
 01477 -0 76300 0 00006  
 01500 0 60200 0 01513  
 01501 0 07400 4 00740  
 01502 0 01541 0 01506  
 01503 0 07400 4 00740  
 01504 0 00000 0 00000  
 01505 1 00001 1 01334  
 01506 606060606060  
 01507 606060606060  
 01510 626321632544  
 01511 254563604564  
 01512 442225516060  
 01513 0 00000 0 00000  
 01514 512526255162  
 01515 606346602160  
 01516 454645402567  
 01517 316263254563  
 01520 602646514464  
 01521 432160456444  
 01522 222551602346  
 01523 515125624746  
 01524 452431452760  
 01525 634660606060  
 01526 606060606060  
 01527 606060606060  
 01530 606060606060  
 01531 606060606060  
 01532 606060606060  
 01533 606060606060  
 01534 314560633025  
 01535 606370472560  
 01536 462660626321  
 01537 632544254563  
 01540 606060606060

LDQ BETAWD  
 CAL BETAWD-1  
 ARS 18  
 LGL 18  
 SLW BETAWD-1  
 LGL 18  
 LDQ BLANKS  
 LGL 18  
 SLW BETAWD  
 CLA LIST,1  
 TSX EXBETA,4  
 TSX LAJUST,4  
 SLW FORMNB  
 LDQ FORMNB  
 CAL FORMNB-1  
 ARS 6  
 LGL 6  
 SLW FORMNB-1  
 LGL 30  
 LDQ BLANKS  
 LGL 6  
 SLW FORMNB  
 TSX PRINT,4  
 HTR NOBETA,0,NOBETA+27  
 TSX PRINT,4

MOVE WORD INTO COMMENT

MOVE EXTERNAL FORMULA NUMBER INTO COMMENT

WHICHA  
NOBETA

TXI NXTER,1,1  
BCD 2

1 WORD ENTRY IN ERROR LIST

BCD 3STATEMENT NUMBER

A

FORMNB HTR  
BCD

REFERS TO A NON-EXISTENT FORMULA NUMBER CORRESPONDING TO

BETAWD BCD 6

BCD 5IN THE TYPE OF STATEMENT

01541	0 00000 0	01552	ADTMI	HTR	TISMIN
01542	0 00000 0	01614	ADTZR	HTR	TISZRO
01543	0 00000 0	01656	ADT1	HTR	TIS1
01544	0 00000 0	01720	ADT2	HTR	TIS2
01545	0 00000 0	01762	ADT3	HTR	TIS3
01546	0 00000 0	02024	ADT4	HTR	TIS4
01547	0 00000 0	02066	ADT5	HTR	TIS5
01550	0 00000 0	02130	ADT6	HTR	TIS6
01551	0 00000 0	02172	ADDO	HTR	DOS
01552	606060606060		TISMIN	BCD	4
01553	606060606060				
01554	606060606060				
01555	606060606060				
01556	602160603126		BCD	A	IF ( E ) N1, N2, N3
01557	607460256034				
01560	604501736045				
01561	027360450360				
01562	606060606060				
01563	606060606060				
01564	606060606060				
01565	606060606060				
01566	606060606060				
01567	606060606060				
01570	606060606060		BCD		
01571	606060606060				
01572	606060606060				
01573	606060606060				
01574	606060606060				
01575	606060606060				
01576	606060606060				
01577	606060606060				
01600	606060606060				
01601	606060606060				
01602	606060606060		BCD		
01603	606060606060				
01604	606060606060				
01605	606060606060				
01606	606060606060				
01607	606060606060				
01610	606060606060				
01611	606060606060				
01612	606060606060				
01613	606060606060				
01614	606060606060		TISZRO	BCD	4
01615	606060606060				
01616	606060606060				
01617	606060606060				
01620	602160602746		BCD	A	GO TO N
01621	606346604560				
01622	606060606060				
01623	606060606060				
01624	606060606060				
01625	606060606060				
01626	606060606060				

01627 606060606060  
01630 606060606060  
01631 606060606060  
01632 606060606060  
01633 606060606060  
01634 606060606060  
01635 606060606060  
01636 606060606060  
01637 606060606060  
01640 606060606060  
01641 606060606060  
01642 606060606060  
01643 606060606060  
01644 606060606060  
01645 606060606060  
01646 606060606060  
01647 606060606060  
01650 606060606060  
01651 606060606060  
01652 606060606060  
01653 606060606060  
01654 606060606060  
01655 606060606060  
01656 606060606060  
01657 606060606060  
01660 606060606060  
01661 606060606060  
01662 602160602746  
01663 606346604360  
01664 746045017360  
01665 450273604544  
01666 603460606060  
01667 606060606060  
01670 606060606060  
01671 606060606060  
01672 606060606060  
01673 606060606060  
01674 606060606060  
01675 606060606060  
01676 606060606060  
01677 606060606060  
01700 606060606060  
01701 606060606060  
01702 606060606060  
01703 606060606060  
01704 606060606060  
01705 606060606060  
01706 606060606060  
01707 606060606060  
01710 606060606060  
01711 606060606060  
01712 606060606060  
01713 606060606060  
01714 606060606060

BCD

BCD

TISI BCD 4

BCD A GO TO L ( N1, N2, NM )

BCD

BCD

01715 606060606060  
01716 606060606060  
01717 606060606060  
01720 606060606060  
01721 606060606060  
01722 606060606060  
01723 606060606060  
01724 602160602746  
01725 606346607460  
01726 450173604502  
01727 736045446034  
01730 604160606060  
01731 606060606060  
01732 606060606060  
01733 606060606060  
01734 606060606060  
01735 606060606060  
01736 606060606060  
01737 606060606060  
01740 606060606060  
01741 606060606060  
01742 606060606060  
01743 606060606060  
01744 606060606060  
01745 606060606060  
01746 606060606060  
01747 606060606060  
01750 606060606060  
01751 606060606060  
01752 606060606060  
01753 606060606060  
01754 606060606060  
01755 606060606060  
01756 606060606060  
01757 606060606060  
01760 606060606060  
01761 606060606060  
01762 606060606060  
01763 606060606060  
01764 606060606060  
01765 606060606060  
01766 602160603126  
01767 607460622545  
01770 622560626631  
01771 632330604260  
01772 346045017360  
01773 450260606060  
01774 606060606060  
01775 606060606060  
01776 606060606060  
01777 606060606060  
02000 606060606060  
02001 606060606060  
02002 606060606060

TIS2 BCD 4

BCD A GO TO ( N1, N2, NM ) J

BCD

BCD

TIS3 BCD 4

BCD A IF ( SENSE SWITCH K ) N1, N2

BCD 9

1100



02003 606060606060  
02004 606060606060  
02005 606060606060  
02006 606060606060  
02007 606060606060  
02010 606060606060  
02011 465160606060  
02012 602160603126  
02013 607460622545  
02014 622560433127  
02015 306360426034  
02016 604501736045  
02017 026060606060  
02020 606060606060  
02021 606060606060  
02022 606060606060  
02023 606060606060  
02024 606060606060  
02025 606060606060  
02026 606060606060  
02027 606060606060  
02030 602160603126  
02031 602431653124  
02032 256023302523  
02033 426045017360  
02034 450260606060  
02035 606060606060  
02036 606060606060  
02037 606060606060  
02040 606060606060  
02041 606060606060  
02042 606060606060  
02043 606060606060  
02044 606060606060  
02045 606060606060  
02046 606060606060  
02047 606060606060  
02050 606060606060  
02051 606060606060  
02052 606060606060  
02053 606060606060  
02054 606060606060  
02055 606060606060  
02056 606060606060  
02057 606060606060  
02060 606060606060  
02061 606060606060  
02062 606060606060  
02063 606060606060  
02064 606060606060  
02065 606060606060  
02066 606060606060  
02067 606060606060  
02070 606060606060

BCD 10R  
BCD A IF ( SENSE LIGHT K ) N1, N2

TIS4 BCD 4

BCD A IF DIVIDE CHECK N1, N2

BCD

BCD

TIS5 BCD 4

02071	606060606060	
02072	602160603126	BCD A IF ACCUMULATOR OVERFLOW N1, N2
02073	602123236444	
02074	644321634651	
02075	604665255126	
02076	434666604501	
02077	736045026060	
02100	606060606060	
02101	606060606060	
02102	606060606060	
02103	606060606060	
02104	606060606060	BCD 9
02105	606060606060	
02106	606060606060	
02107	606060606060	
02110	606060606060	
02111	606060606060	
02112	606060606060	
02113	606060606060	
02114	606060606060	
02115	465160606060	BCD 10R
02116	602160603126	BCD A IF QUOTIENT OVERFLOW N1, N2
02117	605064466331	
02120	254563604665	
02121	255126434666	
02122	604501736045	
02123	026060606060	
02124	606060606060	
02125	606060606060	
02126	606060606060	
02127	606060606060	
02130	606060606060	TIS6 BCD 4
02131	606060606060	
02132	606060606060	
02133	606060606060	
02134	602160602162	BCD A ASSIGN K TO N
02135	623127456042	
02136	606346604560	
02137	606060606060	
02140	606060606060	
02141	606060606060	
02142	606060606060	
02143	606060606060	
02144	606060606060	
02145	606060606060	
02146	606060606060	BCD
02147	606060606060	
02150	606060606060	
02151	606060606060	
02152	606060606060	
02153	606060606060	
02154	606060606060	
02155	606060606060	
02156	606060606060	

02157	606060606060		
02160	606060606060		BCD
02161	606060606060		
02162	606060606060		
02163	606060606060		
02164	606060606060		
02165	606060606060		
02166	606060606060		
02167	606060606060		
02170	606060606060		
02171	606060606060		
02172	606060606060	DOS	BCD 4
02173	606060606060		
02174	606060606060		
02175	606060606060		
02176	602160602446		BCD A DO B I = N1, N2, N3
02177	602260316013		
02200	604501736045		
02201	027360450360		
02202	606060606060		
02203	606060606060		
02204	606060606060		
02205	606060606060		
02206	606060606060		
02207	606060606060		
02210	-0 53400 4 02256	TSXH	LXD XTABLE,4
02211	0 50000 1 77777		CLA LIST,1
02212	0 76700 0 00022		ALS 18
02213	-0 32000 0 01230		ANA DECMSK
02214	0 40200 0 01234		SUB PREFX1
02215	-0 32000 0 01230		ANA DECMSK
02216	0 34000 4 02256	TSHCAS	CAS XTABLE,4
02217	0 02000 0 02221		TRA TSXH1
02220	0 02000 0 02223		TRA HVNOX
02221	2 00002 4 02216	TSXH1	TIX TSHCAS,4,2
02222	0 02000 0 01330		TRA NO
02223	0 50000 4 02257	HVNOX	CLA XTABLE+1,4
02224	0 62100 0 02225		STA TSHTRA
02225	0 02000 0 00000	TSHTRA	TRA
02226	+000316000000		OCT 000316000000
02227	0 00000 0 02257		HTR SAVEB1
02230	+000327000000		OCT 000327000000
02231	0 00000 0 02261		HTR SAVEB2
02232	+000337000000		OCT 000337000000
02233	0 00000 0 02262		HTR SAVEB3
02234	+000352000000		OCT 000352000000
02235	0 00000 0 02263		HTR TIFOB
02236	+000374000000		OCT 000374000000
02237	0 00000 0 02265		HTR TRADX1
02240	+000421000000		OCT 000421000000
02241	0 00000 0 02267		HTR TRADX2
02242	+000443000000		OCT 000443000000
02243	0 00000 0 02271		HTR TIF3B1
02244	+000453000000		OCT 000453000000

FIND THE KIND OF TIFGO ENTRY WHICH  
IS TRYING TO TURN CONTROL OVER TO A  
NON-EXECUTABLE STATEMENT

CANNOT IDENTIFY, PRINT OCTAL LOCATION

02245	0	00000	0	02273	HTR	TIF3B2
02246	+000467000000				OCT	000467000000
02247	0	00000	0	02274	HTR	TIF4B1
02250	+000477000000				OCT	000477000000
02251	0	00000	0	02276	HTR	TIF4B2
02252	+000513000000				OCT	000513000000
02253	0	00000	0	02277	HTR	TIF5B1
02254	+000523000000				OCT	000523000000
02255	0	00000	0	02300	HTR	TIF5B2
02256	0	00030	0	00000	XTABLE	HTR 0,0,24
02257	0	50000	0	01541	SAVEB1	CLA ADTMI
02260	0	02000	0	02301		TRA NOXBTA
02261	0	02000	0	02257	SAVEB2	TRA SAVEB1
02262	0	02000	0	02257	SAVEB3	TRA SAVEB1
02263	0	50000	0	01542	TIFOB	CLA ADTZR
02264	0	02000	0	02301		TRA NOXBTA
02265	0	50000	0	01543	TRADX1	CLA ADT1
02266	0	02000	0	02301		TRA NOXBTA
02267	0	50000	0	01544	TRADX2	CLA ADT2
02270	0	02000	0	02301		TRA NOXBTA
02271	0	50000	0	01545	TIF3B1	CLA ADT3
02272	0	02000	0	02301		TRA NOXBTA
02273	0	02000	0	02271	TIF3B2	TRA TIF3B1
02274	0	50000	0	01546	TIF4B1	CLA ADT4
02275	0	02000	0	02301		TRA NOXBTA
02276	0	02000	0	02274	TIF4B2	TRA TIF4B1
02277	0	02000	0	02300	TIF5B1	TRA TIF5B2
02300	0	50000	0	01547	TIF5B2	CLA ADT5
02301	0	62100	0	02343	NOXBTA	STA ADDTD
02302	0	40000	0	02401		ADD DEC34
02303	0	76700	0	00022		ALS 18
02304	0	62200	0	02343		STD ADDTD
02305	0	50000	1	77776		CLA LIST-1,1
02306	0	07400	4	00613		TSX EXBETA,4
02307	0	07400	4	00602		TSX LAJUST,4
02310	0	60200	0	01257		SLW ERAS
02311	-0	50000	0	02364		CAL TIFOR
02312	0	77100	0	00014		ARS 12
02313	0	56000	0	01257		LDQ ERAS
02314	-0	76300	0	00014		LGL 12
02315	0	60200	0	02364		SLW TIFOR
02316	-0	76300	0	00030		LGL 24
02317	0	56000	0	00717		LDQ BLANKS
02320	-0	76300	0	00014		LGL 12
02321	0	60200	0	02365		SLW TIFOR+1
02322	0	50000	1	77776		CLA LIST-1,1
02323	0	77100	0	00022		ARS 18
02324	0	07400	4	00613		TSX EXBETA,4
02325	0	07400	4	00602		TSX LAJUST,4
02326	0	60200	0	01257		SLW ERAS
02327	-0	50000	0	02351		CAL NONB-1
02330	0	56000	0	01257		LDQ ERAS
02331	0	77100	0	00006		ARS 6
02332	-0	76300	0	00006		LGL 6

A TIFGO STATEMENT HAS ATTEMPTED TO  
TURN OVER CONTROL OF THE PROGRAM TO A  
NON EXECUTABLE STATEMENT

GET EXTERNAL NUMBER OF TIFGO ENTRY

GET EXTERNAL NUMBER OF STATEMENT  
WHICH IS NOT EXECUTABLE

	02333	0	60200.0	02351		SLW	NONB-1		
	02334	-0	76300	0	00036	LGL	30		
	02335	0	56000	0	00717	LDQ	BLANKS		
	02336	-0	76300	0	00006	LGL	6		
	02337	0	60200	0	02352	SLW	NONB		
	02340	0	07400	4	00740	TSX	PRINT,4		
	02341	0	02401	0	02345	HTR	BTNONX,0,BTNONX+28		
	02342	0	07400	4	00740	TSX	PRINT,4		
A	02343	0	00000	0	00000	ADDDT	HTR		
	02344	1	00002	1	01334				
	02345	606060606060				BTNONX	BCD 2		2WORD ENTRY IN ERROR LIST
	02346	606060606060							
	02347	626321632544					BCD 2STATEMENT NU		
	02350	254563604564							
	02351	442225516060					BCD 1MBER		
A	02352	0	00000	0	00000	NONB	HTR		
	02353	316260454663					BCD 9IS NOT EXECUTABLE. IT IS REFERRED TO BY STATEMENT NUM		
	02354	602567252364							
	02355	632122432533							
	02356	606031636031							
	02357	626051252625							
	02360	515125246063							
	02361	466022706062							
	02362	632163254425							
	02363	456360456444							
	02364	222551606060				TIFOR	BCD 7BER		
	02365	606060606060							
	02366	606060606060							
	02367	606060606060							
	02370	606060606060							
	02371	606060606060							
	02372	606060606060							
	02373	663031233060					BCD 6WHICH IS OF THE FOLLOWING TYPE		
	02374	316260462660							
	02375	633025602646							
	02376	434346663145							
	02377	276063704725							
	02400	606060606060							
	02401	0	00000	0	00042	DEC34	HTR 34		
	02402	0	50000	1	77776	DOBTNX	CLA LIST-1,1		BETA IS NOT AN EXECUTABLE STATEMENT
	02403	0	60100	0	00527		STO ALFBET		IN ALPHA DO BETA
	02404	0	50000	1	77775		CLA LIST-2,1		
	02405	0	60100	0	00530		STO SYM		
	02406	0	07400	4	00740		TSX PRINT,4		
	02407	0	02426	0	02412		HTR DOBTX,0,DOBTX+12		
	02410	0	07400	4	00505		TSX FX4PR,4		PRINT DO STATEMENT
	02411	1	00003	1	01334		TXI NXTER,1,3		3 WORD ENTRY IN ERROR LIST
	02412	606060606060				DOBTX	BCD 2		
	02413	606060606060							
	02414	633025605121					BCD THE RANGE OF THIS DO ENDS WITH A NON-EXECUTABLE STATEMENT		
	02415	452725604626							
	02416	606330316260							
	02417	244660254524							
	02420	626066316330							

02421	602160454645			
02422	402567252364			
02423	632122432560			
02424	626321632544			
02425	254563606060			
02426	0 50000 1 77776	CONBET	CLA LIST-1,1	IN ALPHA DO BETA, BETA IS A CONDITIONAL
02427	0 60100 0 00527		STO ALFBET	TRANSFER, THAT IS, A TIFGO ENTRY
02430	0 50000 1 77775		CLA LIST-2,1	
02431	0 60100 0 00530		STO SYM	
02432	0 07400 4 00740		TSX PRINT,4	
02433	0 02453 0 02436		HTR CONBT,0,CONBT+13	
02434	0 07400 4 00505		TSX FX4PR,4	PRINT DO STATEMENT
02435	1 00003 1 01334		TXI NXTER,1,3	3 WORD ENTRY IN ERROR LIST
02436	606060606060	CONBT	BCD 2	
02437	606060606060			
02440	633025605121		BCD	THE RANGE OF THIS DO ENDS WITH A CONDITIONAL TRANSFER STATEM
02441	452725604626			
02442	606330316260			
02443	244660254524			
02444	626066316330			
02445	602160234645			
02446	243163314645			
02447	214360635121			
02450	456226255160			
02451	626321632544			
02452	254563606060		BCD IENT	
02453	0 50000 1 77776	DOALNX	CLA LIST-1,1	ALPHA PLUS 1, IN ALPHA DO BETA,
02454	0 60100 0 00527		STO ALFBET	IS NOT EXECUTABLE
02455	0 50000 1 77775		CLA LIST-2,1	
02456	0 60100 0 00530		STO SYM	
02457	0 07400 4 00740		TSX PRINT,4	
02460	0 02502 0 02463		HTR DOALX,0,DOALX+15	
02461	0 07400 4 00505		TSX FX4PR,4	PRINT DO STATEMENT
02462	1 00003 1 01334		TXI NXTER,1,3	3 WORD ENTRIES IN ERROR LIST
02463	606060606060	DOALX	BCD 2	
02464	606060606060			
02465	633025606263		BCD	THE STATEMENT IMMEDIATELY FOLLOWING THIS DO IS NOT AN EXECUT
02466	216325442545			
02467	636031444425			
02470	243121632543			
02471	706026464343			
02472	466631452760			
02473	633031626024			
02474	466031626045			
02475	466360214560			
02476	256725236463			
02477	212243256062		BCD 3ABLE STATEMENT	
02500	632163254425			
02501	456360606060			
02502	0 50000 1 77777	CHBTX	CLA LIST,1	THE SYMBOL, OR A VARIABLE IN A DO STATEMENT
02503	0 76700 0 00022		ALS 18	DOES NOT BEGIN WITH I J K ETC
02504	-0 32000 0 01230		ANA DECMSK	
02505	0 40200 0 01234		SUB PREFX1	CONVERT TSX TO NUMBER OF STOP WHERE THIS
02506	-0 32000 0 01230		ANA DECMSK	

02507	0	53400	4	01232		LXA	ZERO,4
02510	0	34000	4	02621	CHBCAS	CAS	BLIST-1,4
02511	0	02000	0	02513		TRA	CHBTXI
02512	0	02000	0	02516		TRA	HVCHB
02513	1	00002	4	02514	CHBTXI	TXI	CHBTXL,4,2
02514	-3	00006	4	02510	CHBTXL	TXL	CHBCAS,4,6
02515	0	02000	0	01330		TRA	NO
02516	-0	50000	4	02622	HVCHB	CAL	BLIST,4
02517	0	10000	0	02623		TZE	CHBDO
02520	0	56000	4	02622		LDQ	BLIST,4
02521	-0	50000	0	02602		CAL	THE
02522	0	77100	0	00014		ARS	12
02523	-0	76300	0	00014		LGL	12
02524	0	60200	0	02602		SLW	THE
02525	-0	76300	0	00006		LGL	6
02526	0	56000	0	02603		LDQ	THE+1
02527	-0	77300	0	00006		RQL	6
02530	-0	76300	0	00036		LGL	30
02531	0	60200	0	02603		SLW	THE+1
02532	0	50000	1	77775		CLA	LIST-2,1
02533	0	60100	0	00527		STO	ALFBET
02534	0	50000	1	77774		CLA	LIST-3,1
02535	0	60100	0	00530		STO	SYM
02536	-0	50000	1	77776		CAL	LIST-1,1
02537	0	07400	4	00543		TSX	ZEROUT,4
02540	0	07400	4	00565		TSX	RAJUST,4
02541	0	60200	0	01257		SLW	ERAS
02542	0	56000	0	01257		LDQ	ERAS
02543	-0	50000	0	02606		CAL	DOPRAM
02544	0	77100	0	00014		ARS	12
02545	-0	76300	0	00014		LGL	12
02546	0	60200	0	02606		SLW	DOPRAM
02547	-0	76300	0	00030		LGL	24
02550	0	56000	0	02607		LDQ	DOPRAM+1
02551	-0	77300	0	00030		RQL	24
02552	-0	76300	0	00014		LGL	12
02553	0	60200	0	02607		SLW	DOPRAM+1
02554	0	07400	4	00740		TSX	PRINT,4
02555	0	02600	0	02562		HTR	VRBL,0,VRBL+14
02556	0	07400	4	00505		TSX	FX4PR,4
02557	0	07400	4	00740		TSX	PRINT,4
02560	0	02613	0	02600		HTR	VRPR,0,VRPR+11
02561	1	00004	1	01334		TXI	NXTER,1,4
02562		606060606060			VRBL	BCD	2
02563		606060606060					
02564		214560314563					
02565		252725516065					
02566		215131212243					
02567		256044646263					
02570		602225273145					
02571		606631633060					
02572		316041604260					
02573		436044604651					
02574		604533606031					

WAS PICKED UP  
DETERMINE WHETHER SYMBOL, N1, N2 OR N3

CANNOT IDENTIFY, PRINT ERROR RECORD ZERO  
BCD FOR N1,N2 OR N3, BUT INDEXING  
SYMBOL IS ZERO, WILL BE PROCESS BY ITSELF

MOVE PARAMETER INTO COMMENT

SHIFT FIRST BLANK OUT OF MQ

ARRANGE TO PRINT DO STATEMENT

REMOVE ZEROS FROM VARIABLE NAME AND  
ADJUST TO RIGHT

PUT HALF OF WORD IN COMMENT

PUT IN OTHER HALF

PRINT DO STATEMENT

4 WORD ENTRIES IN ERROR LIST

BCD AN INTEGER VARIABLE MUST BEGIN WITH I J K L M OR N. IN THE

02575	456063302560			
02576	244660626321		BCD 2DO STATEMENT	
02577	632544254563			
02600	606060606060	VRPR	BCD 2	
02601	606060606060			
02602	633025606060	THE	BCD 1THE	
02603	606031452425		BCD 3 INDEXING PARAMET	
02604	673145276047			
02605	215121442563			
02606	255173606060	DOPRAM	BCD 1ER,	
02607	606060607360		BCD 4 , IS INCORRECT.	
02610	316260314523			
02611	465151252363			
02612	336060606060			
02613	+000716000000		OCT 000716000000	
02614	035124606060		BCD 13RD	IJKN3 IN NON-ARITH DIAG
02615	+000703000000		OCT 000703000000	
02616	024524606060		BCD 12ND	IJKN2
02617	+000670000000		OCT 000670000000	
02620	016263606060		BCD 11ST	IJKN1
02621	+000656000000		OCT 000656000000	IJKSYM
02622	0 00000 0 00000	BLIST	HTR 0	ZERO INDICATES TO PROGRAM THIS IS SYMBOL
02623	0 50000 1 77775	CHBDO	CLA LIST-2,1	ARRANGE TO PRINT DO STATEMENT
02624	0 60100 0 00527		STO ALFBET	
02625	0 50000 1 77774		CLA LIST-3,1	
02626	0 60100 0 00530		STO SYM	
02627	0 07400 4 00740		TSX PRINT,4	
02630	0 02656 0 02633		HTR CHDOPR,0,CHDOPR+19	
02631	0 07400 4 00505		TSX FX4PR,4	
02632	1 00004 1 01334		TXI NXTER,1,4	4 WORD ENTRIES IN ERROR LIST
02633	606060606060	CHDOPR	BCD 2	
02634	606060606060			
02635	214560314563		BCD AN INTEGER VARIABLE MUST BEGIN WITH I J K L M OR N.	THE IND
02636	252725516065			
02637	215131212243			
02640	256044646263			
02641	602225273145			
02642	606631633060			
02643	316041604260			
02644	436044604651			
02645	604533606063			
02646	302560314524			
02647	256760627044		BCD 7EX SYMBOL IS INCORRECT IN THE STATEMENT	
02650	224643603162			
02651	603145234651			
02652	512523636031			
02653	456063302560			
02654	626321632544			
02655	254563606060			
02656	-0 53400 2 01232	CHATSX	LXD ZERO,2	AN ILLEGAL CHARACTER HAS BEEN FOUND IN
02657	0 50000 1 77777		CLA LIST,1	SOME NAME
02660	0 76700 0 00022		ALS 18	UNCOMPLIMENTED LOCATION WILL SHOW
02661	-0 32000 0 01230		ANA DECMSK	KIND OF STATEMENT USING THIS NAME
02662	0 40200 0 01234		SUB PREFIX1	



02663	-0	32000	0	01230		ANA	DECMASK
02664	0	34000	2	02704	CB	CAS	CHA2WD,2
02665	0	02000	0	02667		TRA	TXIC
02666	0	02000	0	02717		TRA	PR2WD
02667	1	00002	2	02670	TXIC	TXI	CA,2,2
02670	-3	00006	2	02664	CA	TXL	CB,2,6
02671	0	34000	2	02716	CC	CAS	CHA3WD,2
02672	0	02000	0	02674		TRA	CTIX
02673	0	02000	0	03020		TRA	PR3WD
02674	2	00002	2	02671	CTIX	TIX	CC,2,2
02675	0	02000	0	01330		TRA	NO
02676	+000131000000					OCT	000131000000
02677	0	00000	0	03000		HTR	FRSB
02700	+000143000000					OCT	000143000000
02701	0	00000	0	02770		HTR	SZ
02702	+000163000000					OCT	000163000000
02703	0	00000	0	03010		HTR	SBAR
02704	+000175000000				CHA2WD	OCT	000175000000
02705	0	00000	0	02760		HTR	CMON
02706	+000653000000					OCT	000653000000
02707	0	00000	0	00000		HTR	0
02710	+000665000000					OCT	000665000000
02711	600162636031					BCD	1 1ST I
02712	+000700000000					OCT	000700000000
02713	600245246031					BCD	1 2ND I
02714	+000713000000					OCT	000713000000
02715	600351246031					BCD	1 3RD I
02716	0	00000	0	00000	CHA3WD		
02717	0	50000	2	02705	PR2WD	CLA	CHA2WD+1,2
02720	0	62100	0	02722		STA	CHACLA
02721	-0	53400	2	01232		LXD	ZERO,2
02722	0	50000	2	00000	CHACLA	CLA	0,2
02723	0	60100	2	02750		STO	DA,2
02724	1	77777	2	02725		TXI	CHATXH,2,-1
02725	3	77770	2	02722	CHATXH	TXH	CHACLA,2,-8
02726	-0	50000	1	77776		CAL	LIST-1,1
02727	0	07400	4	00543		TSX	ZEROUT,4
02730	0	07400	4	00565		TSX	RAJUST,4
02731	0	60200	0	02741		SLW	D
02732	0	07400	4	00740		TSX	PRINT,4
02733	0	02760	0	02735		HTR	PRCHA,0,PRCHA+19
02734	1	00002	1	01334		TXI	NXTER,1,2
02735	606060606060				PRCHA	BCD	2
02736	606060606060						
02737	633025606270					BCD	2THE SYMBOL,
02740	442246437360						
02741	0	00000	0	00000	D	HTR	
02742	736023464563					BCD	6, CONTAINS AN ILLEGAL CHARACTER. IT
02743	213145626021						
02744	456031434325						
02745	272143602330						
02746	215121236325						
02747	513360603163						
02750	606060606060				DA	BCD	8

IS THIS FROM ONE OF THE SIZ, COMMON  
FUNCTION ETC., STATEMENTS

OR DOES THE NAME APPEAR IN A DO STATEMENT

PRINT UNIDENTIFYABLE STOP

TSXA IN NON ARITH DIAG

TSXB

TSXC

TSXD

PUNSYN

PUNN1

PUNN2

PUNN3

PRINT IDENTIFICATION OF STATEMENT  
IN WHICH NAME WAS FOUND  
TRANSFER 8 WORDS ABOUT STATEMENT  
INTO COMMENT

UNPACK NAME AND MOVE TO RIGHT

2 WORD ENTRY IN ERROR LIST

A

1549

02751	606060606060			
02752	606060606060			
02753	606060606060			
02754	606060606060			
02755	606060606060			
02756	606060606060			
02757	606060606060			
02760	602147472521	CMON	BCD 8 APPEARS IN A COMMON STATEMENT.	
02761	516260314560			
02762	216023464444			
02763	464560626321			
02764	632544254563			
02765	336060606060			
02766	606060606060			
02767	606060606060			
02770	602147472521	SZ	BCD 8 APPEARS IN A DIMENSION STATEMENT.	
02771	516260314560			
02772	216024314425			
02773	456231464560			
02774	626321632544			
02775	254563336060			
02776	606060606060			
02777	606060606060			
03000	602147472521	FRSB	BCD 8 APPEARS AS THE NAME OF A FORTRAN FUNCTION.	
03001	516260216260			
03002	633025604521			
03003	442560462660			
03004	216026465163			
03005	512145602664			
03006	452363314645			
03007	336060606060			
03010	602147472521	SBAR	BCD 8 APPEARS AS AN ARGUMENT OF A SUBROUTINE.	
03011	516260216260			
03012	214560215127			
03013	644425456360			
03014	462660216062			
03015	642251466463			
03016	314525336060			
03017	606060606060			
03020	0 50000 2 02717	PR3WD	CLA CHA3WD+1,2	1ST,2ND,OR 3RD PARAMETER
03021	0 10000 0 03060		TZE SYMDO	ZERO IF SYMBOL REFERED TO
03022	0 60100 0 03047		STO PAR	
03023	-0 50000 1 77776		CAL LIST-1,1	UNPACK NAME AND MOVE TO RIGHT
03024	0 07400 4 00543		TSX ZEROUT,4	
03025	0 07400 4 00565		TSX RAJUST,4	
03026	0 60200 0 03053		SLW WRPAR	
03027	0 07400 4 00740		TSX PRINT,4	
03030	0 03060 0 03037		HTR PARAPR,0,PARAPR+17	
03031	0 50000 1 77775		CLA LIST-2,1	PRINT ALPHA TO BETA STATEMENT AND
03032	0 60100 0 00527		STO ALFBET	SYMBOL
03033	0 50000 1 77774		CLA LIST-3,1	
03034	0 60100 0 00530		STO SYM	
03035	0 07400 4 00505		TSX FX4PR,4	
03036	1 00004 1 01334		TXI NXTER,1,4	4 WORD ENTRIES IN ERROR LIST

	03037	606060606060	PARAPR	BCD 2	
	03040	606060606060			
	03041	633025512560			BCD 6THERE IS AN ILLEGAL CHARACTER IN THE
	03042	316260214560			
	03043	314343252721			
	03044	436023302151			
	03045	212363255160			
	03046	314560633025			
A	03047	0 00000 0 00000	PAR	HTR	
	03050	452425673145			BCD 3INDEXING PARAMETER
	03051	276047215121			
	03052	442563255160			
A	03053	0 00000 0 00000	WRPAR	HTR	
	03054	736046266063			BCD 4, OF THE DO STATEMENT
	03055	302560244660			
	03056	626321632544			
	03057	254563606060			
	03060	0 07400 4 00740	SYMDO	TSX PRINT,4	
	03061	0 03106 0 03070		HTR SYMDPR,0,SYMDPR+14	
	03062	0 50000 1 77775		CLA LIST-2,1	
	03063	0 60100 0 00527		STO ALFBET	PRINT ALPHA DO BETA FOR SYMBOL
	03064	0 50000 1 77774		CLA LIST-3,1	WITH ILLEGAL CHARACTER
	03065	0 60100 0 00530		STO SYM	
	03066	0 07400 4 00505		TSX FX4PR,4	
	03067	1 00004 1 01334		TXI NXTER,1,4	4 WORD ENTRIES IN ERROR LIST
	03070	606060606060	SYMDPR	BCD 2	
	03071	606060606060			
	03072	633025512560			BCD THERE IS AN ILLEGAL CHARACTER IN THE INDEXING SYMBOL OF THE
	03073	316260214560			
	03074	314343252721			
	03075	436023302151			
	03076	212363255160			
	03077	314560633025			
	03100	603145242567			
	03101	314527606270			
	03102	442246436046			
	03103	266063302560			
	03104	244660626321			BCD 2DO STATEMENT
	03105	632544254563			
	03106	0 50000 1 77777	NOTRA	CLA LIST,1	ALPHA+1,INTERNAL FORMULA NUMBER,
	03107	-0 32000 0 01227		ANA ADDMSK	IN ADDRESS OF LIST. THIS IS NUMBER OF AN
	03110	0 07400 4 00613		TSX EXBETA,4	EXECUTABLE STATEMENT WHICH FOLLOWS A
	03111	0 07400 4 00602		TSX LAJUST,4	TIFGO ENTRY OR A STOP, BUT WHICH IS NEVER
	03112	0 60200 0 03137		SLW EXTN1	TRANSFERED TO IN THE FLOW OF THE PROBLEM
	03113	0 07400 4 00740		TSX PRINT,4	
	03114	0 03140 0 03116		HTR PRNOTR,0,PRNOTR+18	
	03115	1 00001 1 01334		TXI NXTER,1,1	1 WORD ENTRY IN ERROR LIST
	03116	606060606060	PRNOTR	BCD 2	
	03117	606060606060			
	03120	216047215163			BCD A PART OF THE PROGRAM CANNOT BE REACHED. IT IS LOCATED AT 0
	03121	604626606330			
	03122	256047514627			
	03123	512144602321			
	03124	454546636022			

03125 256051252123  
 03126 302524336060  
 03127 316360316260  
 03130 434623216325  
 03131 246021636046  
 03132 516041646263  
 03133 602225434666  
 03134 606263216325  
 03135 442545636045  
 03136 644422255160  
 03137 0 00000 0 00000  
 03140 0 50000 1 77777  
 03141 0 07400 4 00613  
 03142 0 07400 4 00602  
 03143 0 60200 0 03165  
 03144 0 07400 4 00740  
 03145 0 03166 0 03147  
 03146 1 00001 1 01334  
 03147 606060606060  
 03150 606060606060  
 03151 216026512550  
 03152 642545237060  
 03153 626321632544  
 03154 254563602346  
 03155 456321314562  
 03156 606346466044  
 03157 214570602251  
 03160 214523302562  
 03161 602646516063  
 03162 302560264651  
 03163 446443216045  
 03164 644422255160  
 03165 0 00000 0 00000  
 03166 -0 50000 1 77776  
 03167 0 07400 4 00543  
 03170 0 60200 0 03221  
 03171 0 56000 0 03221  
 03172 -0 50000 0 03220  
 03173 0 77100 0 00014  
 03174 -0 76300 0 00014  
 03175 0 60200 0 03220  
 03176 -0 76300 0 00030  
 03177 0 56000 0 00717  
 03200 -0 76300 0 00014  
 03201 0 60200 0 03221  
 03202 0 07400 4 00740  
 03203 0 03222 0 03205  
 03204 1 00002 1 01334  
 03205 606060606060  
 03206 606060606060  
 03207 214560314523  
 03210 464562316263  
 03211 254563602550  
 03212 643165214325

BCD 5R JUST BELOW STATEMENT NUMBER

A

EXTN1 HTR  
 FRETIF CLA LIST,1 INTERNAL FORMULA NUMBER  
 TSX EXBETA,4 IN ADDRESS OF LIST. SECTION 4 WILL STOP  
 TSX LAJUST,4 WHEN THERE ARE MORE BRANCHES THAN  
 SLW FRALFA NECESSARY FOR A TIFGO ENTRY.  
 TSX PRINT,4  
 HTR PRFREQ,0,PRFREQ+15  
 TXI NXTER,1,1 1 WORD ENTRY IN ERROR LIST  
 PRFREQ BCD 2

BCD A FREQUENCY STATEMENT CONTAINS TOO MANY BRANCHES FOR THE FOR

BCD 2MULA NUMBER

A

FRALFA HTR  
 NOTEQV CAL LIST-1,1 THIS IS STILL IN BCD FORM, BUT MAY BE  
 TSX ZEROUT,4 FOLLOWED BY 1 BLANK AND ZEROS. THIS NAME  
 SLW EQWD HAS BEEN ASSIGNED INCONSISTANT VALUES IN  
 LDQ EQWD EQUIVALENCE STATEMENTS  
 CAL EQWD-1  
 ARS 12 MOVE WORD INTO REST OF COMMENT  
 LGL 12  
 SLW EQWD-1  
 LGL 24  
 LDQ BLANKS  
 LGL 12  
 SLW EQWD  
 TSX PRINT,4  
 HTR PREQ,0,PREQ+13  
 TXI NXTER,1,2 2 WORD ENTRIES IN ERROR LIST  
 PREQ BCD 2

BCD AN INCONSISTENT EQUIVALENCE STATEMENT HAS BEEN MADE ABOUT

114

03213	452325606263			
03214	216325442545			
03215	636030216260			
03216	222525456044			
03217	212425602122			
03220	466463606060			
A 03221	0 00000 0 00000	EQWD	HTR	
03222	0 07400 4 00740	BADWC	TSX PRINT,4	
03223	0 01244 0 01237		HTR MACHIN,0,MACHIN+5	
03224	0 50000 1 77776		CLA LIST-1,1	
03225	0 07400 4 00730		TSX OCTBCD,4	
03226	0 60200 0 01257		SLW ERAS	
03227	0 56000 0 01257		LDQ ERAS	
03230	-0 50000 0 03314		CAL BDWD	
03231	0 77100 0 00030		ARS 24	
03232	-0 76300 0 00030		LGL 24	
03233	0 60200 0 03314		SLW BDWD	
03234	-0 76300 0 00014		LGL 12	
03235	0 56000 0 00717		LDQ BLANKS	
03236	-0 76300 0 00030		LGL 24	
03237	0 60200 0 03315		SLW BDWD+1	
03240	0 07400 4 00740		TSX PRINT,4	
03241	0 03410 0 03300		HTR PRBDWC,0,PRBDWC+72	
03242	0 02000 0 03275		TRA ENDMAC	
03243	0 07400 4 00740	NOIDEN	TSX PRINT,4	
03244	0 01244 0 01237		HTR MACHIN,0,MACHIN+5	
03245	0 50000 1 77776		CLA LIST-1,1	
03246	0 07400 4 00730		TSX OCTBCD,4	
03247	0 60200 0 01257		SLW ERAS	
03250	0 56000 0 01257		LDQ ERAS	
03251	-0 50000 0 03423		CAL IDENWD	
03252	0 77100 0 00022		ARS 18	
03253	-0 76300 0 00022		LGL 18	
03254	0 60200 0 03423		SLW IDENWD	
03255	-0 76300 0 00022		LGL 18	
03256	0 56000 0 03424		LDQ IDENWD+1	
03257	-0 77300 0 00022		RQL 18	
03260	-0 76300 0 00022		LGL 18	
03261	0 60200 0 03424		SLW IDENWD+1	
03262	0 07400 4 00740		TSX PRINT,4	
03263	0 03431 0 03410		HTR PRNOI,0,PRNOI+17	
03264	0 07400 4 00740		TSX PRINT,4	
03265	0 03410 0 03350		HTR MACHER,0,MACHER+32	
03266	0 02000 0 03275		TRA ENDMAC	
03267	0 07400 4 00740	WHATIF	TSX PRINT,4	
03270	0 01244 0 01237		HTR MACHIN,0,MACHIN+5	
03271	0 07400 4 00740		TSX PRINT,4	
03272	0 03446 0 03431		HTR NOTIF,0,NOTIF+13	
03273	0 07400 4 00740		TSX PRINT,4	
03274	0 03364 0 03350		HTR MACHER,0,MACHER+12	
03275	0 50000 0 00316	ENDMAC	CLA HTR4	SET RETURN SO PROBLEM CAN BE
03276	0 60100 0 00266		STO DONE	RE-RUN FOR MACHINE ERROR
03277	0 02000 0 00230		TRA RESTRT	
03300	606060606060	PRBDWC	BCD 2	

L  
03301 606060606060  
03302 255151465160  
03303 314560512521  
03304 243145276051  
03305 252346512460  
03306 265146446063  
03307 214725600233  
03310 606051252346  
03311 512460312425  
03312 456331263123  
03313 216331464560  
03314 316260606060  
03315 606060606060  
03316 606060606060  
03317 606060606060  
03320 606060606060  
03321 606060606060  
03322 606060606060  
03323 606060606060  
03324 606060606060  
03325 606060606060  
03326 664651246023  
03327 466445636024  
03330 462562604546  
03331 636021275125  
03332 256066316330  
03333 602346644563  
03334 603145605125  
03335 234651243360  
03336 606060606060  
03337 606060606060  
03340 606060606060  
03341 606060606060  
03342 606060606060  
03343 606060606060  
03344 606060606060  
03345 606060606060  
03346 606060606060  
03347 606060606060  
03350 606060606060  
03351 606060606060  
03352 475146222122  
03353 437060442123  
03354 303145256025  
03355 515146516066  
03356 302545606321  
03357 224325606621  
03360 626023464447  
03361 314325246022  
03362 706001604751  
03363 314425336060  
03364 606060606060  
03365 606060606060  
03366 606060606060

BCD ERROR IN READING RECORD FROM TAPE 2. RECORD IDENTIFICATION

BDWD BCD IS

BCD WORD COUNT DOES NOT AGREE WITH COUNT IN RECORD.

BCD 8

MACHER BCD 2

BCD PROBABLY MACHINE ERROR WHEN TABLE WAS COMPILED BY 1 PRIME.

BCD

03367 606060606060  
03370 606060606060  
03371 606060606060  
03372 606060606060  
03373 606060606060  
03374 606060606060  
03375 606060606060  
03376 263165256021  
03377 636325444763  
03400 626030216525  
03401 602225254560  
03402 442124256063  
03403 466051252124  
03404 606330316260  
03405 512523465124  
03406 602346515125  
03407 236343703360  
03410 606060606060  
03411 606060606060  
03412 512523465124  
03413 602651464460  
03414 632147256002  
03415 602321454546  
03416 636022256031  
03417 242545633126  
03420 312524336060  
03421 633031626051  
03422 252346512460  
03423 302162606060  
03424 606060603145  
03425 602124245125  
03426 626260462660  
03427 263151626360  
03430 664651243360  
03431 606060606060  
03432 606060606060  
03433 254563517060  
03434 314560633126  
03435 274673605125  
03436 234651246006  
03437 736026314325  
03440 600573606321  
03441 472560027360  
03442 232145454663  
03443 602225603124  
03444 254563312631  
03445 252433606060  
03446 +000301000000  
03447 0 00000 0 03267  
03450 +001125000000  
03451 0 00000 0 02502  
03452 +000650000000  
03453 0 00000 0 02453  
03454 +000641000000

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

PRNOI BCD 2

BCD 9RECORD FROM TAPE 2 CANNOT BE IDENTIFIED. THIS RECORD

IDENWD BCD 1HAS

BCD 5 IN ADDRESS OF FIRST WORD.

NOTIF BCD 2

BCD ENTRY IN TIFGO, RECORD 6, FILE 5, TAPE 2, CANNOT BE IDENTIFI

BCD 1ED.

OCT 000301000000

HTR WHATIF

OCT 001125000000

HTR CHBTSX

OCT 000650000000

HTR DOALNX

OCT 000641000000

03455	0	00000	0	02402	HTR	DOBTNX
03456	+	000727000000			OCT	000727000000
03457	0	00000	0	02426	HTR	CONBET
03460	+	000623000000			OCT	000623000000
03461	0	00000	0	01436	HTR	DONOBT
03462	+	001062000000			OCT	001062000000
03463	0	00000	0	02210	HTR	TSXH
03464	+	000534000000			OCT	000534000000
03465	0	00000	0	01434	HTR	TIF6B
03466	+	000521000000			OCT	000521000000
03467	0	00000	0	01432	HTR	B2TIF5
03470	+	000511000000			OCT	000511000000
03471	0	00000	0	01430	HTR	B1TIF5
03472	+	000475000000			OCT	000475000000
03473	0	00000	0	01426	HTR	B2TIF4
03474	+	000465000000			OCT	000465000000
03475	0	00000	0	01424	HTR	B1TIF4
03476	+	000451000000			OCT	000451000000
03477	0	00000	0	01422	HTR	B2TIF3
03500	+	000441000000			OCT	000441000000
03501	0	00000	0	01420	HTR	B1TIF3
03502	+	000417000000			OCT	000417000000
03503	0	00000	0	01416	HTR	BTIFG2
03504	+	000372000000			OCT	000372000000
03505	0	00000	0	01411	HTR	BTIFG1
03506	+	000350000000			OCT	000350000000
03507	0	00000	0	01404	HTR	TSXTFO
03510	+	000335000000			OCT	000335000000
03511	0	00000	0	01377	HTR	MINB3
03512	+	000325000000			OCT	000325000000
03513	0	00000	0	01372	HTR	MINB2
03514	+	000314000000			OCT	000314000000
03515	0	00000	0	01365	HTR	MINB1
03516	+	000775000000			OCT	000775000000
03517	0	00000	0	03166	HTR	NOTEQV
03520	+	000762000000			OCT	000762000000
03521	0	00000	0	03140	HTR	FRETIF
03522	+	000070000000			OCT	000070000000
03523	0	00000	0	03222	HTR	BADWC
03524	+	000110000000			OCT	000110000000
03525	0	00000	0	03243	HTR	NOIDEN
03526	+	000576000000			OCT	000576000000
03527	0	00000	0	03106	HTR	NOTRA
03530	+	000212000000			OCT	000212000000
03531	0	00000	0	01341	HTR	TEIFNO
03532	+	001110000000			OCT	001110000000
03533	0	00000	0	02656	HTR	CHATSX
03534	0	00000	0	00000		

ER1PRM

X

END

IE,TSXE FROM NON-ARITH DIAP

A



1  
1

ORG 5

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00005 0 01303 0 01421  
 01303 3 00000 0 00005  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 -0 53400 1 07302  
 01307 2 00002 1 01310  
 01310 -0 63400 1 01336  
 01311 -0 53400 1 01232  
 01312 0 50000 1 77777  
 01313 0 10000 0 01343  
 01314 0 50000 0 01421  
 01315 -0 10000 0 01322  
 01316 0 07400 4 00740  
 01317 0 01372 0 01355  
 01320 -0 63400 4 01421  
 01321 0 76600 0 00361  
 01322 0 50000 1 77777  
 01323 0 60100 0 00527  
 01324 0 50000 1 77776  
 01325 0 60100 0 00530  
 01326 0 07400 4 00505  
 01327 0 50000 1 77775  
 01330 0 60100 0 00527  
 01331 0 50000 1 77774  
 01332 0 60100 0 00530  
 01333 0 07400 4 00505  
 01334 0 76600 0 00361  
 01335 1 00004 1 01336  
 01336 -3 00000 1 01312  
 01337 0 76600 0 00361  
 01340 0 07400 4 00740  
 01341 0 01403 0 01372  
 01342 0 02000 0 00272  
 01343 0 60000 0 01421  
 01344 0 76600 0 00361  
 01345 0 07400 4 00740  
 01346 0 01421 0 01403  
 01347 0 50000 1 77776  
 01350 0 60100 0 00527  
 01351 0 50000 1 77775  
 01352 0 60100 0 00530  
 01353 0 07400 4 00505  
 01354 1 00003 1 01336  
 01355 606060606060  
 01356 606060606060  
 01357 633025602446  
 01360 606263216325  
 01361 442545636260  
 01362 314560633025  
 01363 602646434346

ERNBR

DONX1

NXTDO

DO1

DOTST

ONEDO

NONEST

ORG 5  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 5.  
 SYN 3778  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 LXN ERNBR,1  
 TIX DONX1,1,2  
 SXD DOTST,1  
 LXN ZERO,1  
 CLA LIST,1  
 TZE ONEDO  
 CLA MORDOS  
 TNZ DO1  
 TSX PRINT,4  
 HTR NONEST,0,NONEST+13  
 SXD MORDOS,4  
 WPR  
 CLA LIST,1  
 STO ALFBET  
 CLA LIST-1,1  
 STO SYM  
 TSX FX4PR,4  
 CLA LIST-2,1  
 STO ALFBET  
 CLA LIST-3,1  
 STO SYM  
 TSX FX4PR,4  
 WPR  
 TXI DOTST,1,4  
 TXL NXTDO,1,0  
 WPR  
 TSX PRINT,4  
 HTR ENDNST,0,ENDNST+9  
 TRA SPEND  
 STZ MORDOS  
 WPR  
 TSX PRINT,4  
 HTR DOPR,0,DOPR+14  
 CLA LIST-1,1  
 STO ALFBET  
 CLA LIST-2,1  
 STO SYM  
 TSX FX4PR,4  
 TXI DOTST,1,3  
 BCD 2

7320 FT 27  
OCTAL 7302

DO NOT PRINT COMMENT FOR SUCCEEDING  
ERRORS

PRINT 1ST DO  
AND 2ND

BCD THE DO STATEMENTS IN THE FOLLOWING LIST ARE NOT CORRECTLY NE

01364 663145276043  
01365 316263602151  
01366 256045466360  
01367 234651512523  
01370 634370604525  
01371 626325246060  
01372 606060606060  
01373 606060606060  
01374 234651512523  
01375 636063302560  
01376 244660452562  
01377 633145276022  
01400 252646512560  
01401 512521626225  
01402 442243703360  
01403 606060606060  
01404 606060606060  
01405 633025606263  
01406 216325442545  
01407 636045644422  
01410 255160254524  
01411 314527602160  
01412 244660316260  
01413 212246652560  
01414 316360314560  
01415 633025606246  
01416 645123256047  
01417 514627512144  
01420 336060606060  
01421 0 00000 0 00000 MORDOS HTR 0  
01422 0 00000 0 00000 X  
00000

BCD 1STED  
ENDNST BCD 2

BCD 7CORRECT THE DO NESTING BEFORE REASSEMBLY.

DOPR BCD 2

BCD THE STATEMENT NUMBER ENDING A DO IS ABOVE IT IN THE SOURCE P

BCD 2ROGRAM.

END

A

118

1  
1

ORG 6

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00006 0 01303 0 01436  
 01303 3 00000 0 00006  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 76200 0 00304  
 01307 0 46000 0 01350  
 01310 0 53400 1 01351  
 01311 0 70000 1 01276  
 01312 0 70000 1 01277  
 01313 0 70000 1 01277  
 01314 0 70000 1 01277  
 01315 2 00001 1 01311  
 01316 0 53400 1 01351  
 01317 0 50000 1 01276  
 01320 -0 10000 0 01331  
 01321 2 00001 1 01317  
 01322 0 50000 0 01351  
 01323 0 76700 0 00002  
 01324 0 40000 0 01350  
 01325 0 62100 0 01350  
 01326 0 40200 0 01352  
 01327 -0 10000 0 01306  
 01330 0 50000 0 01232  
 01331 0 77100 0 00022  
 01332 0 07400 4 00613  
 01333 0 60200 0 01257  
 01334 -0 50000 0 01373  
 01335 0 77100 0 00030  
 01336 0 56000 0 01257  
 01337 -0 76300 0 00030  
 01340 0 60200 0 01373  
 01341 -0 76300 0 00014  
 01342 0 56000 0 00717  
 01343 -0 76300 0 00030  
 01344 0 60200 0 01374  
 01345 0 07400 4 00740  
 01346 0 01437 0 01353  
 01347 0 02000 0 00272  
 01350 0 00000 0 00200  
 01351 0 00000 0 00017  
 01352 0 00000 0 07700  
 01353 606060606060  
 01354 606060606060  
 01355 633025606225  
 01356 636046266024  
 01357 466026465144  
 01360 644321626066  
 01361 303123306022  
 01362 252731456260  
 01363 465160632551  
 01364 443145216325

RDDR

COPYW

NEXT

PROCES

A

L(15)  
BUFSIZ  
PR

ORG 6  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 6  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 RDR 4  
 LDA A  
 LXA L(15),1  
 CPY ERAS+15,1  
 CPY ERAS+16,1  
 CPY ERAS+16,1  
 CPY ERAS+16,1  
 TIX COPYW,1,1  
 LXA L(15),1  
 CLA ERAS+15,1  
 TNZ PROCES  
 TIX NEXT,1,1  
 CLA L(15)  
 ALS 2  
 ADD A  
 STA A  
 SUB BUFSIZ  
 TNZ RDDR  
 CLA ZERO  
 ARS 18  
 TSX EXBETA,4  
 SLW ERAS  
 CAL PR1  
 ARS 24  
 LDQ ERAS  
 LGL 24  
 SLW PR1  
 LGL 12  
 LDQ BLANKS  
 LGL 24  
 SLW PR1+1  
 TSX PRINT,4  
 HTR PR,0,PR+52  
 TRA SPEND  
 HTR8200  
 HTR 15  
 HTR 4032  
 BCD 2

BCD THE SET OF DO FORMULAS WHICH BEGINS OR TERMINATES IN THE VIC

106 FT 53

NOR BUFFER NOW ON DRUM 4.

COPY FIRST WORD OF 4 WORD ENTRY.  
IGNORE NEXT THREE.

IF NOT LOCATION SYMBOL OF CIT,  
WORD WILL BE ZERO.

IN THE DECREMENT THERE IS THE  
ALPHA OF SOME STATEMENT NUMBER.

STARTING DRUM ADDRESS

SIZE OF NOR BUFFER + INITIAL ADDRESS.

01365 626031456063  
 01366 302560653123  
 01367 314531637060  
 01370 462660626321  
 01371 632544254563  
 01372 604564442225  
 01373 516060606060  
 01374 606060606060  
 01375 606060606060  
 01376 606060606060  
 01377 606060606060  
 01400 606060606060  
 01401 302162602731  
 01402 652545605131  
 01403 622560634660  
 01404 634646604421  
 01405 457060314562  
 01406 635164236331  
 01407 464562336060  
 01410 512566513163  
 01411 256047514627  
 01412 512144602145  
 01413 246062314447  
 01414 433126706024  
 01415 466045256263  
 01416 314527606060  
 01417 606060606060  
 01420 606060606060  
 01421 606060606060  
 01422 606060606060  
 01423 606060606060  
 01424 606060606060  
 01425 465160512524  
 01426 642325606330  
 01427 256045644422  
 01430 255160462660  
 01431 626422622351  
 01432 314763602346  
 01433 442231452163  
 01434 314645623360  
 01435 606060606060  
 01436 606060606060  
 01437 0 00000 0 00000 X  
 00000

A

BCD 4INITY OF STATEMENT NUMBE

PRI BCD 6R

BCD HAS GIVEN RISE TO TOO MANY INSTRUCTIONS. REWRITE PROGRAM AN

BCD D SIMPLIFY DO NESTING

BCD OR REDUCE THE NUMBER OF SUBSCRIPT COMBINATIONS.

END

1  
1

ORG 7

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

00007 0 01303 0 01404 00007  
 01303 3 00000 0 00007  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 76200 0 00304  
 01307 0 46000 0 01332  
 01310 0 70000 0 01257  
 01311 0 50000 0 01257  
 01312 0 77100 0 00022  
 01313 0 07400 4 00613  
 01314 0 60200 0 01257  
 01315 -0 50000 0 01346  
 01316 0 77100 0 00014  
 01317 0 56000 0 01257  
 01320 -0 76300 0 00014  
 01321 0 60200 0 01346  
 01322 -0 76300 0 00030  
 01323 0 56000 0 01347  
 01324 -0 77300 0 00030  
 01325 -0 76300 0 00014  
 01326 0 60200 0 01347  
 01327 0 07400 4 00740  
 01330 0 01405 0 01333  
 01331 0 02000 0 00272  
 01332 0 00000 0 01076 A  
 01333 606060606060 PR  
 01334 606060606060  
 01335 632127632127  
 01336 606321224325  
 01337 606231712560  
 01340 302162602225  
 01341 254560256723  
 01342 252524252433  
 01343 606024466062  
 01344 632163254425  
 01345 456360456444  
 01346 222551600102 PR1  
 01347 030405546031 PR2  
 01350 626046452560  
 01351 462660216045  
 01352 256263604626  
 01353 602446606263  
 01354 216325442545  
 01355 636260606060  
 01356 606060606060  
 01357 606060606060  
 01360 606060606060  
 01361 663031233060  
 01362 234645632131  
 01363 456273604651  
 01364 603021626027

ORG 7  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 7  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 RDR 4  
 LDA A  
 CPY ERAS  
 CLA ERAS  
 ARS 18  
 TSX EXBETA,4  
 SLW ERAS  
 CAL PR1  
 ARS 12  
 LDQ ERAS  
 LGL 12  
 SLW PR1  
 LGL 24  
 LDQ PR2  
 RQL 24  
 LGL 12  
 SLW PR2  
 TSX PRINT,4  
 HTR PR,0,PR+42  
 TRA SPEND  
 HTR81076  
 BCD 2

4040 FT 51

TAGTAG TABLE ON DRUM 4.

COPY FIRST WORD OF 4 WORD ENTRY.

BCD 9TAGTAG TABLE SIZE HAS BEEN EXCEEDED. DO STATEMENT NUM

BCD 1BER 12  
 BCD 1345\* I  
 BCD 9S ONE OF A NEST OF DO STATEMENTS

BCD WHICH CONTAINS, OR HAS GIVEN RISE TO, TOO MANY SUBSCRIPT COM

01365 316525456051  
 01366 316225606346  
 01367 736063464660  
 01370 442145706062  
 01371 642262235131  
 01372 476360234644  
 01373 223145216331  
 01374 464562336060  
 01375 512566513163  
 01376 256062466451  
 01377 232560475146  
 01400 275121443360  
 01401 606060606060  
 01402 606060606060  
 01403 606060606060  
 01404 606060606060  
 01405 0 00000 0 00000 X  
 00000

BCD BINATIONS. REWRITE SOURCE PROGRAM.

A

END

1022

1  
1

ORG 8

00010 0 01303 0 00010 01332  
01303

Td 01303 3 00000 0 00010  
01304 0 07400 4 00740  
01305 0 01252 0 01244  
01306 0 07400 4 00740  
01307 0 01333 0 01311  
01310 0 02000 0 00272  
01311 606060606060 PR  
01312 606060606060  
01313 475146275121  
01314 446030216260  
01315 444651256063  
01316 302145600500  
01317 602446606263  
01320 216325442545  
01321 636260314560  
01322 216045256263  
01323 336060512566  
01324 513163256047  
01325 514627512144  
01326 606631633060  
01327 623144474325  
01330 516024466062  
01331 635164236364  
01332 512533606060  
01333 0 00000 0 00000 X  
00000

A

FORCE NEW RECORD  
ORG 8  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 8  
TSX PRINT,4  
HTR SOURCE,0,SOURCE+6  
TSX PRINT,4  
HTR PR,0,PR+18  
TRA SPEND  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
4160 FT 34

BCD PROGRAM HAS MORE THAN 50 DO STATEMENTS IN A NEST. REWRITE P

BCD 6ROGRAM WITH SIMPLER DO STRUCTURE.

END

1  
1

	ORG 9			00011
	00011	0	01303	0 01612
				01303
TD	01303	3	00000	0 00011
	01304	0	07400	4 00740
	01305	0	01252	0 01244
	01306	-0	53400	1 77777
	01307	-3	00001	1 01515
	01310	-3	00002	1 01370
	01311	-3	00003	1 01520
	01312	-3	00004	1 01522
	01313	0	07400	4 00740
	01314	0	01370	0 01316
	01315	0	02000	0 00272
	01316	606060606060		
	01317	606060606060		
	01320	636267234644		
	01321	606321224325		
	01322	602567232525		
	01323	246260226426		
	01324	262551606231		
	01325	712533606063		
	01326	302551256021		
	01327	512560634646		
	01330	604421457060		
	01331	512543216331		
	01332	652560234645		
	01333	626321456360		
	01334	242526314531		
	01335	633146456233		
	01336	606060606060		
	01337	606060606060		
	01340	606060606060		
	01341	606060606060		
	01342	606060606060		
	01343	606060606060		
	01344	633025606321		
	01345	224325603162		
	01346	602364446443		
	01347	216331652560		
	01350	466525516063		
	01351	302560254563		
	01352	315125604751		
	01353	462243254433		
	01354	606051256651		
	01355	316325606246		
	01356	645123256047		
	01357	514627512144		
	01360	336060606060		
	01361	606060606060		
	01362	606060606060		
	01363	606060606060		

PR

FORCE NEW RECORD

ORG 9  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 9  
9  
TSX PRINT,4  
HTR SOURCE,0,SOURCE+6  
LXD877777,1  
TXL DRMTAG,1,1  
TXL CHGTAG,1,2  
TXL NAMKEY,1,3  
TXL TRASTO,1,4  
TSX PRINT,4  
HTR PR,0,PR+42  
TRA SPEND  
BCD 2

FORCE NEW RECORD

CARD FOR DE :  
5037 FT 34  
7632 FT 36

BCD TSXCOM TABLE EXCEEDS BUFFER SIZE. THERE ARE TOO MANY RELATI

BCD VE CONSTANT DEFINITIONS.

BCD THE TABLE IS CUMULATIVE OVER THE ENTIRE PROBLEM. REWRITE SO

BCD URCE PROGRAM.

1024



01364	606060606060	
01365	606060606060	
01366	606060606060	
01367	606060606060	
01370	0 07400 4 00740	CHGTAG TSX PRINT,4
01371	0 01515 0 01373	HTR PR1,0,PR1+82
01372	0 02000 0 00272	TRA SPEND
01373	606060606060	PR1 BCD 2
01374	606060606060	
01375	233027632127	BCD CHGTAG TABLE EXCEEDS BUFFER SIZE. AN ENTRY IS MADE IN THIS
01376	606321224325	
01377	602567232525	
01400	246260226426	
01401	262551606231	
01402	712533606021	
01403	456025456351	
01404	706031626044	
01405	212425603145	
01406	606330316260	
01407	632122432560	BCD TABLE WHEN THERE ARE AT LEAST TWO
01410	663025456063	
01411	302551256021	
01412	512560216360	
01413	432521626360	
01414	636646606060	
01415	606060606060	
01416	606060606060	
01417	606060606060	
01420	606060606060	
01421	626422622351	BCD SUBSCRIPT COMBINATIONS WITH THE SAME SYMBOLS, COEFFICIENTS,
01422	314763602346	
01423	442231452163	
01424	314645626066	
01425	316330606330	
01426	256062214425	
01427	606270442246	
01430	436273602346	
01431	252626312331	
01432	254563627360	
01433	214524604325	BCD AND LEADING DIMENSIONS
01434	212431452760	
01435	243144254562	
01436	314645626060	
01437	606060606060	
01440	606060606060	
01441	606060606060	
01442	606060606060	
01443	606060606060	
01444	606060606060	
01445	663163303145	BCD WITHIN THE SAME NEST WHICH HAS AT LEAST ONE, BUT NOT ALL, CO
01446	606330256062	
01447	214425604525	
01450	626360663031	
01451	233060302162	

Faint, illegible text, possibly bleed-through from the reverse side of the page. The text is scattered across the page and is too light to transcribe accurately.



01452 602163604325  
01453 216263604645  
01454 257360226463  
01455 604546636021  
01456 434373602346  
01457 456351464343  
01460 314527602446  
01461 626031456023  
01462 464444464533  
01463 606060606060  
01464 606060606060  
01465 606060606060  
01466 606060606060  
01467 606060606060  
01470 606060606060  
01471 633025606321  
01472 224325603162  
01473 602364446443  
01474 216331652560  
01475 466525516021  
01476 434360452562  
01477 636260314560  
01500 633025604751  
01501 462243254433  
01502 606051256651  
01503 316325606246  
01504 645123256047  
01505 514627512144  
01506 336060606060  
01507 606060606060  
01510 606060606060  
01511 606060606060  
01512 606060606060  
01513 606060606060  
01514 606060606060  
01515 0 50000 0 01611 DRMTAG CLA DRTG  
01516 0 60100 0 01527 STO PR3  
01517 0 02000 0 01522 TRA TRASTO  
01520 0 50000 0 01612 NAMKEY CLA NMKY  
01521 0 60100 0 01527 STO PR3  
01522 0 07400 4 00740 TRASTO TSX PRINT,4  
01523 0 01611 0 01525 HTR PR2,0,PR2+52  
01524 0 02000 0 00272 TRA SPEND  
01525 606060606060 PR2 BCD 2  
01526 606060606060  
01527 635121626346 PR3 BCD TRASTO TABLE EXCEEDS BUFFER SIZE. THE SUBSCRIPT COMBINATION  
01530 606321224325  
01531 602567232525  
01532 246260226426  
01533 262551606231  
01534 712533606063  
01535 302560626422  
01536 622351314763  
01537 602346442231

BCD NTROLLING DOS IN COMMON.

BCD THE TABLE IS CUMULATIVE OVER ALL NESTS IN THE PROBLEM. REWR

BCD ITE SOURCE PROGRAM.

01540 452163314645  
01541 626021452460  
01542 264346666062  
01543 635164236364  
01544 512560316260  
01545 634646602346  
01546 444743256760  
01547 606060606060  
01550 606060606060  
01551 606060606060  
01552 606060606060  
01553 663163303145  
01554 602446604525  
01555 626362336060  
01556 633031626063  
01557 212243256031  
01560 626023644464  
01561 432163316525  
01562 604665255160  
01563 214343604525  
01564 626362336060  
01565 512566513163  
01566 256062466451  
01567 232560475146  
01570 275121446021  
01571 452460606060  
01572 606060606060  
01573 606060606060  
01574 606060606060  
01575 606060606060  
01576 606060606060  
01577 623144474331  
01600 267060626422  
01601 622351314763  
01602 602346442231  
01603 452163314645  
01604 626046516024  
01605 466045256263  
01606 606263516423  
01607 636451253360  
01610 606060606060  
01611 245144632127  
01612 452144422570  
01613 0 00000 0 00000 X

BCD S AND FLOW STRUCTURE IS TOO COMPLEX

BCD WITHIN DO NESTS. THIS TABLE IS CUMULATIVE OVER ALL NESTS.

BCD REWRITE SOURCE PROGRAM AND

BCD SIMPLIFY SUBSCRIPT COMBINATIONS OR DO NEST STRUCTURE.

DRTG BCD 1DRMTAG  
NMKY BCD 1NAMKEY  
END

A

00000

1.47

1  
1

TD

ORG 10  
 00012 0 01303 0 00012  
 01303 3 00000 0 00012  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01344 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 635121456226  
 01314 255160212424  
 01315 512562626043  
 01316 256525436031  
 01317 626027512521  
 01320 632551606330  
 01321 214560020033  
 01322 606051254751  
 01323 462751214460  
 01324 634660254331  
 01325 443145216325  
 01326 606351214562  
 01327 262551626063  
 01330 466024466260  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 663163306043  
 01340 256525436260  
 01341 275125216325  
 01342 516063302145  
 01343 600200336060  
 01344 0 00000 0 00000 X  
 00000

A

FORCE NEW RECORD

ORG 10  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 10  
 10

FORCE NEW RECORD  
CARD FOR DE

6044 FT 27  
 6534 FT 27

TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+27  
 TRA SPEND  
 BCD 2

BCD TRANSFER ADDRESS LEVEL IS GREATER THAN 20. REPROGRAM TO ELI

BCD MINUTE TRANSFERS TO DOS

BCD 5 WITH LEVELS GREATER THAN 20.

END

1  
1

TD

A

ORG 11  
 00013 0 01303 0 00013  
 01303 3 00000 0 00013  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 50000 0 06300  
 01307 0 77100 0 00022  
 01310 0 07400 4 00613  
 01311 0 60200 0 01257  
 01312 0 56000 0 01257  
 01313 -0 50000 0 01332  
 01314 0 77100 0 00006  
 01315 -0 76300 0 00006  
 01316 0 60200 0 01332  
 01317 -0 76300 0 00036  
 01320 0 56000 0 00717  
 01321 -0 76300 0 00006  
 01322 0 60200 0 01333  
 01323 0 07400 4 00740  
 01324 0 01346 0 01326  
 01325 0 02000 0 00272  
 01326 606060606060  
 01327 606060606060  
 01330 626321632544  
 01331 254563604564  
 01332 442225516060  
 01333 606060606060  
 01334 635121456226  
 01335 255162603145  
 01336 634660633025  
 01337 605121452725  
 01340 604626602160  
 01341 244660265146  
 01342 446046646362  
 01343 312425603163  
 01344 626051214527  
 01345 253360606060  
 01346 0 00000 0 00000 X  
 00000

PR

PR1

PR2

FORCE NEW RECORD  
 ORG 11  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 11  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 CLA 3264  
 ARS 18  
 TSX EXBETA,4  
 SLW ERAS  
 LDQ ERAS  
 CAL PR1  
 ARS 6  
 LGL 6  
 SLW PR1  
 LGL 30  
 LDQ BLANKS  
 LGL 6  
 SLW PR2  
 TSX PRINT,4  
 HTR PR,0,PR+16  
 TRA SPEND  
 BCD 2  
 BCD 2STATEMENT NU  
 BCD 1MBER  
 BCD 1  
 BCD TRANSFERS INTO THE RANGE OF A DO FROM OUTSIDE ITS RANGE.  
 END

FORCE NEW RECORD  
 CARD FOR DE  
 6065 FT 27  
 6300 OCTAL

127

1  
1  
TD  
ORG 12  
00014 0 01303 0 01373  
01303 3 00000 0 00014  
01304 0 07400 4 00740  
01305 0 01252 0 01244  
01306 0 50000 0 05244  
01307 0 77100 0 00022  
01310 0 07400 4 00613  
01311 0 60200 0 01334  
01312 0 56000 0 01334  
01313 -0 50000 0 00717  
01314 -0 76300 0 00036  
01315 0 60200 0 01334  
01316 0 56000 0 01335  
01317 -0 76300 0 00036  
01320 0 60200 0 01335  
01321 0 07400 4 00740  
01322 0 01374 0 01324  
01323 0 02000 0 00272  
01324 606060606060 PR  
01325 606060606060  
01326 634646604421  
01327 457060244662  
01330 602545246021  
01331 636062632163  
01332 254425456360  
01333 456444222551  
01334 600102030405  
01335 336060633060  
01336 316260234645  
01337 243163314645  
01340 736031456023  
01341 464541644523  
01342 633146456066  
01343 316330606264  
01344 226223513147  
01345 636023464526  
01346 312764512163  
01347 314645627360  
01350 606060606060  
01351 606060606060  
01352 302162605125  
01353 626443632524  
01354 603145606346  
01355 466044214570  
01356 603145626351  
01357 642363314645  
01360 623360605125  
01361 665131632560  
01362 475146275121  
01363 446021452460  
01364 622547215121

FORCE NEW RECORD  
ORG 12  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 12  
TSX PRINT,4  
HTR SOURCE,0,SOURCE+6  
CLA 2724  
ARS 18  
TSX EXBETA,4  
SLW BETA  
LDQ BETA  
CAL BLANKS  
LGL 30  
SLW BETA  
LDQ BETA+1  
LGL 30  
SLW BETA+1  
TSX PRINT,4  
HTR PR,0,PR+40  
TRA SPEND  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
6234 FT 51  
VCTR - OCTAL 5244

BCD 6TOO MANY DOS END AT STATEMENT NUMBER

BETA BCD 1 12345  
BCD . TH IS CONDITION, IN CONJUNCTION WITH SUBSCRIPT CONFIGURAT

BCD 3IONS,

BCD HAS RESULTED IN TOO MANY INSTRUCTIONS. REWRITE PROGRAM AND

BCD 8SEPARATE DO ENDS BY USING CONTINUE STATEMENTS.

01365 632560244660  
01366 254524626022  
01367 706064623145  
01370 276023464563  
01371 314564256062  
01372 632163254425  
01373 456362336060  
01374 0 00000 0 00000 X  
00000

A

END



```

1
1
    ORG 13
00015 0 01303 0 01334 00015
          01303
TD 01303 3 00000 0 00015
01304 0 07400 4 00740
01305 0 01252 0 01244
01306 0 07400 4 00740
01307 0 01335 0 01311
01310 0 02000 0 00272
01311 606060606060 PR
01312 606060606060
01313 633025606521
01314 513121224325
01315 604721512144
01316 256325516046
01317 266021602446
01320 603162605125
01321 242526314525
01322 246022706063
01323 302560314524
01324 256760627044
01325 224643604626
01326 602160244660
01327 626321632544
01330 254563606631
01331 633031456063
01332 302560244633
01333 606060606060
01334 606060606060
01335 0 00000 0 00000 X
          00000
A

```

```

FORCE NEW RECORD
ORG 13
HTR X-1,0,LOCREC
ORG LOCREC
TXH 13
TSX PRINT,4
HTR SOURCE,0,SOURCE+6
TSX PRINT,4
HTR PR,0,PR+20
TRA SPEND
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
6432 FT 27

```

BCD THE VARIABLE PARAMETER OF A DO IS REDEFINED BY THE INDEX SYM

BCD 8BOL OF A DO STATEMENT WITHIN THE DO.

END

1  
1

ORG 14  
 00016 0 01303 0 01355  
 01303 3 00000 0 00016  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01356 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060  
 01312 606060606060  
 01313 214560314563  
 01314 255144252431  
 01315 216325602346  
 01316 512560632122  
 01317 432560316260  
 01320 266443433360  
 01321 605125665131  
 01322 632560624664  
 01323 512325604751  
 01324 462751214460  
 01325 214524604446  
 01326 243126706063  
 01327 302560456444  
 01330 222551604626  
 01331 604764512560  
 01332 512543216331  
 01333 652560234645  
 01334 626321456360  
 01335 606060606060  
 01336 606060606060  
 01337 626422622351  
 01340 314763602346  
 01341 442231452163  
 01342 314645627360  
 01343 312533736062  
 01344 642262235131  
 01345 476362736045  
 01346 466062704422  
 01347 464360462660  
 01350 663031233060  
 01351 316260644524  
 01352 255160234645  
 01353 635146436046  
 01354 266021602446  
 01355 336060606060  
 01356 0 00000 0 00000 X  
 00000

A

FORCE NEW RECORD

ORG 14  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 14  
 14  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+37  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

7303 FT 41  
 7045 FT 43

PR

BCD AN INTERMEDIATE CORE TABLE IS FULL. REWRITE SOURCE PROGRAM

BCD AND MODIFY THE NUMBER OF PURE RELATIVE CONSTANT

BCD SUBSCRIPT COMBINATIONS, IE., SUBSCRIPTS, NO SYMBOL OF WHICH

BCD SIS UNDER CONTROL OF A DO.

END

1  
1

ORG 15

FORCE NEW RECORD

FORCE NEW RECORD

00017 0 01303 0 01432  
 01303 3 00000 0 00017  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01433 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060  
 01312 606060606060  
 01313 233027632127  
 01314 606321224325  
 01315 602567232525  
 01316 246260226426  
 01317 262551606231  
 01320 712533606021  
 01321 456025456351  
 01322 706031626044  
 01323 212425603145  
 01324 606330316260  
 01325 632122432560  
 01326 663025456063  
 01327 302551256021  
 01330 512560216360  
 01331 432521626360  
 01332 636646606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 626422622351  
 01340 314763602346  
 01341 442231452163  
 01342 314645626066  
 01343 316330606330  
 01344 256062214425  
 01345 606270442246  
 01346 436273602346  
 01347 252626312331  
 01350 254563627360  
 01351 214524604325  
 01352 212431452760  
 01353 243144254562  
 01354 314645626060  
 01355 606060606060  
 01356 606060606060  
 01357 606060606060  
 01360 606060606060  
 01361 606060606060  
 01362 606060606060  
 01363 663163303145  
 01364 606330256062

ORG 15  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 15  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+82  
 TRA SPEND  
 BCD 2

CARD FOR DE  
 270 FT 56

TD

PR

BCD CHGTAG TABLE EXCEEDS BUFFER SIZE. AN ENTRY IS MADE IN THIS

BCD TABLE WHEN THERE ARE AT LEAST TWO

BCD SUBSCRIPT COMBINATIONS WITH THE SAME SYMBOLS, COEFFICIENTS,

BCD AND LEADING DIMENSIONS

BCD WITHIN THE SAME NEST WHICH HAS AT LEAST ONE, BUT NOT ALL, CO

01365 214425604525  
01366 626360663031  
01367 233060302162  
01370 602163604325  
01371 216263604645  
01372 257360226463  
01373 604546636021  
01374 434373602346  
01375 456351464343  
01376 314527602446  
01377 626031456023  
01400 464444464533  
01401 606060606060  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 633025606321  
01410 224325603162  
01411 602364446443  
01412 216331652560  
01413 466525516021  
01414 434360452562  
01415 636260314560  
01416 633025604751  
01417 462243254433  
01420 606051256651  
01421 316325606246  
01422 645123256047  
01423 514627512144  
01424 336060606060  
01425 606060606060  
01426 606060606060  
01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 0 00000 0 00000 X  
00000

BCD NTROLLING DOS IN COMMON.

BCD THE TABLE IS CUMULATIVE OVER ALL NESTS IN THE PROBLEM. REWR

BCD ITE SOURCE PROGRAM.

END

A

```

1
1
    ORG 16
    00020
    60020 0 01303 0 01333
    01303 3 00000 0 00020
    01304 0 07400 4 00740
    01305 0 01252 0 01244
    01306 0 07400 4 00740
    01307 0 01334 0 01311
    01310 0 02000 0 00272
    01311 606060606060 PR
    01312 606060606060
    01313 216026465163
    01314 512145602664
    01315. 452363314645
    01316 603021626022
    01317 252545602425
    01320 263145252460
    01321 216360216047
    01322 463145636031
    01323 456063302560
    01324 624664512325
    01325 604751462751
    01326 214460466330
    01327 255160633021
    01330 456021636031
    01331 636260222527
    01332 314545314527
    01333 336060606060
    01334 0 00000 0 00000 X
    00000
A

```

```

FORCE NEW RECORD
ORG 16
HTR X-1,0,LOCREC
ORG LOCREC
TXH 16
    16
TSX PRINT,4
HTR SOURCE,0,SOURCE+6
TSX PRINT,4
HTR PR,0,PR+19
TRA SPEND
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
    750 FT 56
    747 FT 56

```

BCD A FORTRAN FUNCTION HAS BEEN DEFINED AT A POINT IN THE SOURCE

BCD 7 PROGRAM OTHER THAN AT ITS BEGINNING.

END

1  
1

TD

A

00021 0 01303 0 01325 00021  
 01303 3 00000 0 00021 01303  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01326 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 216044644363  
 01314 316521513121  
 01315 632560464725  
 01316 456062642251  
 01317 466463314525  
 01320 603021626046  
 01321 454370604645  
 01322 256021512764  
 01323 442545636062  
 01324 472523312631  
 01325 252433606060  
 01326 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

ORG 17  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 17  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+13  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

2155 FT 56

BCD A MULTIVARIATE OPEN SUBROUTINE HAS ONLY ONE ARGUMENT SPECIFI

BCD 1ED.

END

```

1
1
    ORG 18
00022 0 01303 0 01327 00022
    01303
TD 01303 3 00000 0 00022
01304 0 07400 4 00740
01305 0 01252 0 01244
01306 0 07400 4 00740
01307 0 01330 0 01311
01310 0 02000 0 00272
01311 606060606060 PR
01312 606060606060
01313 444651256021
01314 512764442545
01315 636260302165
01316 256022252545
01317 606264474743
01320 312524606330
01321 214560215125
01322 605125506431
01323 512524602270
01324 602145604647
01325 254560626422
01326 514664633145
01327 253360606060
A 01330 0 00000 0 00000 X
    00000

```

```

FORCE NEW RECORD
ORG 18
HTR X-1,0,LOCREC
ORG LOCREC
TXH 18
TSX PRINT,4
HTR SOURCE,0,SOURCE+6
TSX PRINT,4
HTR PR,0,PR+15
TRA SPEND
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
2163 FT 56

```

BCD MORE ARGUMENTS HAVE BEEN SUPPLIED THAN ARE REQUIRED BY AN OP

BCD 3EN SUBROUTINE.

END

1  
1

TD

A

00023 0 01303 0 01351 00023  
 01303 3 00000 0 00023 01303  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01352 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 264346666046  
 01314 266047514627  
 01315 512144603162  
 01316 606346466023  
 01317 464447432567  
 01320 336060452567  
 01321 636025456351  
 01322 706023214545  
 01323 466360222560  
 01324 442124256031  
 01325 456043316263  
 01326 604626602221  
 01327 623123602243  
 01330 462342623360  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 512566513163  
 01340 256047514627  
 01341 512144606631  
 01342 633060262566  
 01343 255160635121  
 01344 456226255160  
 01345 212424512562  
 01346 622562736046  
 01347 516024466031  
 01350 456063664660  
 01351 472151636233  
 01352 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

ORG 19  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 19  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+33  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 434 FT 62

BCD FLOW OF PROGRAM IS TOO COMPLEX. NEXT ENTRY CANNOT BE MADE I

BCD N LIST OF BASIC BLOCKS.

BCD REWRITE PROGRAM WITH FEWER TRANSFER ADDRESSES, OR DO IN TWO

BCD 1PARTS.

END



```

1
1
      ORG 20
00024 0 01303 0 01330
      01303
TD 01303 3 00000 0 00024
01304 0 07400 4 00740
01305 0 01252 0 01244
01306 0 07400 4 00740
01307 0 01331 0 01311
01310 0 02000 0 00272
01311 606060606060 PR
01312 606060606060
01313 216047215163
01314 604626606330
01315 256062466451
01316 232560475146
01317 275121446030
01320 216260454660
01321 474662623122
01322 432560472163
01323 306046266026
01324 434666606346
01325 603163336060
01326 233025234260
01327 475146275121
01330 443360606060
01331 0 00000 0 00000 X
      00000
A

```

```

FORCE NEW RECORD
ORG 20
HTR X-1,0,LOCREC
ORG LOCREC
TXH 20
      20
TSX PRINT,4
HTR SOURCE,0,SOURCE+6
TSX PRINT,4
HTR PR,0,PR+16
TRA SPEND
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
      454 FT 64
      707 FT 64

```

BCD A PART OF THE SOURCE PROGRAM HAS NO POSSIBLE PATH OF FLOW TO

BCD 4 IT. CHECK PROGRAM.

END

1  
1

ORG 21

00025 0 01303 0 01331  
 01303 3 00000 0 00025  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01332 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 444651256063  
 01314 302145600205  
 01315 602431626331  
 01316 452363606270  
 01317 442246436260  
 01320 646225246031  
 01321 456021626231  
 01322 274525246027  
 01323 466063466062  
 01324 632163254425  
 01325 456362336060  
 01326 623144474331  
 01327 267060624664  
 01330 512325604751  
 01331 462751214433  
 01332 0 00000 0 00000 X  
 00000

TD

A

FORCE NEW RECORD

ORG 21  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 21  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+17  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

643 FT 64

BCD MORE THAN 25 DISTINCT SYMBOLS USED IN ASSIGNED GO TO STATEME

BCD SNTS. SIMPLIFY SOURCE PROGRAM.

END

1  
1

ORG 22

00026 0 01303 0 01334 00026  
 01303 3 00000 0 00026 01303  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01335 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 263167244662  
 01314 606321224325  
 01315 603162602664  
 01316 434333606063  
 01317 302551256021  
 01320 512560634646  
 01321 604421457060  
 01322 635121456226  
 01323 255162606346  
 01324 602446606263  
 01325 216325442545  
 01326 636233606051  
 01327 256651316325  
 01330 606246645123  
 01331 256047514627  
 01332 512144336060  
 01333 606060606060  
 01334 606060606060  
 01335 0 00000 0 00000 X  
 00000

TD

FORCE NEW RECORD

ORG 22  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 22  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+20  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

756 FT 64

BCD FIXDOS TABLE IS FULL. THERE ARE TOO MANY TRANSFERS TO DO ST

BCD STATEMENTS. REWRITE SOURCE PROGRAM.

END

A

1  
1

TD

A

ORG 23

00027 0 01303 0 01342 00027  
 01303 3 00000 0 00027 01303  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01343 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 622563606321  
 01314 224325603162  
 01315 602664434333  
 01316 606063302551  
 01317 256021512560  
 01320 634646604421  
 01321 457060216262  
 01322 312745604651  
 01323 606225456225  
 01324 604331273063  
 01325 606263216325  
 01326 442545636273  
 01327 604651606346  
 01330 466044214570  
 01331 606351214562  
 01332 262551626063  
 01333 466024466233  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 512566513163  
 01340 256062466451  
 01341 232560475146  
 01342 275121443360  
 01343 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

FORCE NEW RECORD

ORG 23  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 23  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+26  
 TRA SPEND  
 BCD 2

CARD FOR DE  
 1041 FT 64

BCD SET TABLE IS FULL. THERE ARE TOO MANY ASSIGN OR SENSE LIGHT

BCD STATEMENTS, OR TOO MANY TRANSFERS TO DOS.

BCD 4REWRITE SOURCE PROGRAM.

END

1  
1

ORG 24

00030 0 01303 0 01346  
01303  
01303 3 00000 0 00030  
01304 0 07400 4 00740  
01305 0 01252 0 01244  
01306 0 07400 4 00740  
01307 0 01347 0 01311  
01310 0 02000 0 00272  
01311 606060606060 \*PR  
01312 606060606060  
01313 264346666046  
01314 266047514627  
01315 512144603162  
01316 606346466023  
01317 464447432567  
01320 336060635121  
01321 606321224325  
01322 603021626063  
01323 464660442145  
01324 706025456351  
01325 312562336060  
01326 512566513163  
01327 256047514627  
01330 512144606631  
01331 633060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 262566255160  
01340 635121456226  
01341 255160212424  
01342 512562622562  
01343 736046516024  
01344 466031456063  
01345 664660472151  
01346 636233606060  
01347 0 00000 0 00000 X  
00000

A

FORCE NEW RECORD  
ORG 24  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 24  
TSX PRINT,4  
HTR SOURCE,0,SOURCE+6  
TSX PRINT,4  
HTR PR,0,PR+30  
TRA SPEND  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
3156 FT 64

BCD FLOW OF PROGRAM IS TOO COMPLEX. TRA TABLE HAS TOO MANY ENTR

BCD IES. REWRITE PROGRAM WITH

BCD 8FEWER TRANSFER ADDRESSES, OR DO IN TWO PARTS.

END

104

1  
1

ORG 25

FORCE NEW RECORD

00031 0 01303 0 01333  
 01303 3 00000 0 00031  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01334 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060  
 01312 606060606060  
 01313 623171256046  
 01314 266051252731  
 01315 464560632122  
 01316 432560256723  
 01317 252524626005  
 01320 006025456351  
 01321 312562336060  
 01322 475146222122  
 01323 437060634646  
 01324 604421457060  
 01325 622547215121  
 01326 632560244660  
 01327 452562636233  
 01330 606051254751  
 01331 462751214460  
 01332 475146224325  
 01333 443360606060  
 01334 0 00000 0 00000 X

.ORG 25  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 25  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+19  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 2655 FT 75

TD

PR

BCD SIZE OF REGION TABLE EXCEEDS 50 ENTRIES. PROBABLY TOO MANY

BCD 7SEPARATE DO NESTS. REPROGRAM PROBLEM.

A

00000

END

1145

```

1
1
    ORG 26
00032 0 01303 0 01334 00032
    01303 3 00000 0 00032
    01304 0 07400 4 00740
    01305 0 01252 0 01244
    01306 0 07400 4 00740
    01307 0 01335 0 01311
    01310 0 02000 0 00272
    01311 606060606060 PR
    01312 606060606060
    01313 622523633146
    01314 456005606321
    01315 224325626025
    01316 672325252460
    01317 245164446062
    01320 317125336060
    01321 475146224325
    01322 446031626063
    01323 464660434645
    01324 277360465160
    01325 302162606346
    01326 466044214570
    01327 606351214562
    01330 262551623360
    01331 605125475146
    01332 275121446047
    01333 514622432544
    01334 336060606060
    01335 0 00000 0 00000 X
    00000
A

```

```

FORCE NEW RECORD
ORG 26
HTR X-1,0,LOCREC
ORG LOCREC
TXH 26
26
TSX PRINT,4
HTR SOURCE,0,SOURCE+6
TSX PRINT,4
HTR PR,0,PR+20
TRA SPEND
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
16004 FT 75
7447 FT 75

```

BCD SECTION 5 TABLES EXCEED DRUM SIZE. PROBLEM IS TOO LONG, OR

BCD 8HAS TOO MANY TRANSFERS. REPROGRAM PROBLEM.

END

1  
1

ORG 27

00033 0 01303 0 01334  
 01303 3 00000 0 00033  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01335 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060 PR  
 01312 606060606060  
 01313 633025512560  
 01314 302165256022  
 01315 252545604546  
 01316 605125262551  
 01317 254523256260  
 01320 442124256031  
 01321 456063302560  
 01322 475146275121  
 01323 446063466021  
 01324 606521513121  
 01325 224325606630  
 01326 312330606621  
 01327 626043316263  
 01330 252460216260  
 01331 216062642251  
 01332 466463314525  
 01333 602151276444  
 01334 254563336060  
 01335 0 00000 0 00000 X  
 00000

A

FORCE NEW RECORD

ORG 27  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 27  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+20  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

533 FT 92

BCD THERE HAVE BEEN NO REFERENCES MADE IN THE PROGRAM TO A VARIA

BCD 8BLE WHICH WAS LISTED AS A SUBROUTINE ARGUMENT.

END



```

1
1
      ORG 28
00034 0 01303 0 01333 00034
      01303
TD 01303 3 00000 0 00034
01304 0 07400 4 00740
01305 0 01252 0 01244
01306 0 07400 4 00740
01307 0 01334 0 01311
01310 0 02000 0 00272
01311 606060606060 PR
01312 606060606060
01313 633025512560
01314 302165256022
01315 252545604665
01316 255160017300
01317 000060512526
01320 255125452325
01321 626063466062
01322 642251466463
01323 314525602151
01324 276444254563
01325 626031456063
01326 302560475146
01327 275121443360
01330 604446243126
01331 706062466451
01332 232560475146
01333 275121443360
01334 0 00000 0 00000 X
      00000
A

```

```

FORCE NEW RECORD
ORG 28
HTR X-1,0,LOCREC
ORG LOCREC
TXH 28
TSX PRINT,4
HTR SOURCE,0,SOURCE+6
TSX PRINT,4
HTR PR,0,PR+19
TRA SPEND
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
604 FT 92

```

BCD THERE HAVE BEEN OVER 1,000 REFERENCES TO SUBROUTINE ARGUMENT

BCD 7S IN THE PROGRAM. MODIFY SOURCE PROGRAM.

END

1  
1

TD

00035 0 01303 0 00035  
 01303 3 00000 0 00035  
 01304 0 07400 4 00740  
 01305 0 01365 0 01307  
 01306 0 02000 0 00272  
 01307 606060606060 PR  
 01310 606060606060  
 01311 464725456062  
 01312 642251466463  
 01313 314525604546  
 01314 636031456024  
 01315 312363314645  
 01316 215170606462  
 01317 252460227060  
 01320 622523633146  
 01321 456003336060  
 01322 633031626031  
 01323 452431232163  
 01324 256260633021  
 01325 636063302560  
 01326 627062632544  
 01327 606321472560  
 01330 606060606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 662162603144  
 01336 475146472551  
 01337 437060252431  
 01340 632524606630  
 01341 254560212424  
 01342 316331464560  
 01343 662162604421  
 01344 242560634660  
 01345 243123633146  
 01346 452151706046  
 01347 266046472545  
 01350 606264225146  
 01351 646331452562  
 01352 606462252460  
 01353 227060606060  
 01354 606060606060  
 01355 606060606060  
 01356 606060606060  
 01357 606060606060  
 01360 606060606060  
 01361 622523633146  
 01362 456001602145  
 01363 246062252363  
 01364 314645600333

FORCE NEW RECORD

ORG 29  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 29  
 TSX PRINT,4  
 HTR PR,0,PR+46  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

7100 FT 56

BCD OPEN SUBROUTINE NOT IN DICTIONARY USED BY SECTION 3. THIS I

BCD INDICATES THAT THE SYSTEM TAPE

BCD WAS IMPROPERLY EDITED WHEN ADDITION WAS MADE TO DICTIONARY O

BCD F OPEN SUBROUTINES USED BY

BCD 4SECTION 1 AND SECTION 3.

01365 0 00000 0 00000 X  
00000

END

1  
1

ORG 30

00036 0 01303 0 01354 00036  
 01303 3 00000 0 00036  
 01304 0 07400 4 00740  
 01305 0 01355 0 01315  
 01306 0 76000 0 00166  
 01307 0 02000 0 00221  
 01310 0 50000 0 00312  
 01311 0 60100 0 00311  
 01312 0 50000 0 01232  
 01313 0 62200 0 00316  
 01314 0 02000 0 00272  
 01315 606060606060 PR  
 01316 606060606060  
 01317 624664512325  
 01320 604751462751  
 01321 214460234645  
 01322 632131456260  
 01323 214560314343  
 01324 252721436047  
 01325 216330604626  
 01326 602643466673  
 01327 604651602160  
 01330 442123303145  
 01331 256025515146  
 01332 516030216260  
 01333 512562644363  
 01334 252460314560  
 01335 214560314447  
 01336 466262312243  
 01337 256060606060  
 01340 606060606060  
 01341 606060606060  
 01342 606060606060  
 01343 302143636021  
 01344 266325516021  
 01345 602431653124  
 01346 256023302523  
 01347 426063256263  
 01350 336060233025  
 01351 234260624664  
 01352 512325604751  
 01353 462751214433  
 01354 606060606060  
 01355 0 00000 0 00000 X  
 00000

TD

FORCE NEW RECORD  
 ORG 30  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 30  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 SWT 6  
 TRA DIGRTN  
 CLA PRNT4  
 STO PRNT2  
 CLA ZERO  
 STD HTR4  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 425 FT 67

BCD SOURCE PROGRAM CONTAINS AN ILLEGAL PATH OF FLOW, OR A MACHIN

BCD E ERROR HAS RESULTED IN AN IMPOSSIBLE

BCD HALT AFTER A DIVIDE CHECK TEST. CHECK SOURCE PROGRAM.

A

END

1  
1

ORG 31 00037  
00037 0 01303 0 01400 01303

TD 01303 3 00000 0 00037  
01304 0 07400 4 00740  
01305 0 01400 0 01315  
01306 0 76000 0 00166  
01307 0 02000 0 00221  
01310 0 50000 0 00312  
01311 0 60100 0 00311  
01312 0 50000 0 01232  
01313 0 62200 0 00316  
01314 0 02000 0 00272  
01315 606060606060 PR  
01316 606060606060  
01317 214560216363  
01320 254447636063  
01321 466026314524  
01322 602160452144  
01323 256031456063  
01324 302560314563  
01325 255145214343  
01326 706024252631  
01327 452524606521  
01330 513121224325  
01331 606321224325  
01332 603021626026  
01333 213143252433  
01334 606031266063  
01335 302560624664  
01336 512325604751  
01337 462751214460  
01340 222531452760  
01341 606060606060  
01342 606060606060  
01343 234644473143  
01344 252460316260  
01345 256763512544  
01346 254370604321  
01347 512725736063  
01350 303162606263  
01351 464760442170  
01352 603145243123  
01353 216325602145  
01354 604665255143  
01355 214760462660  
01356 632122432562  
01357 603145602346  
01360 512560442544  
01361 465170336060  
01362 452144256031  
01363 456050642562  
01364 633146456060

FORCE NEW RECORD  
ORG 31 FORCE NEW RECORD  
HTR X-1,0,LOCREC CARD FOR DE  
ORG LOCREC  
TXH 31 277 FT 113  
TSX PRINT,4  
HTR PR,0,PR+51  
SWT 6  
TRA DIGRTN  
CLA PRNT4  
STO PRNT2  
CLA ZERO  
STD HTR4  
TRA SPEND  
BCD 2

BCD AN ATTEMPT TO FIND A NAME IN THE INTERNALLY DEFINED VARIABLE

BCD TABLE HAS FAILED. IF THE SOURCE PROGRAM BEING

BCD COMPILED IS EXTREMELY LARGE, THIS STOP MAY INDICATE AN OVERL

BCD AP OF TABLES IN CORE MEMORY. NAME IN QUESTION

01365 606060606060  
01366 606060606060  
01367 316260626346  
01370 512524603145  
01371 604325266360  
01372 444662636002  
01373 006022316362  
01374 604626604346  
01375 232163314645  
01376 600105073360  
01377 606060606060  
01400 606060606060  
01401 0 00000 0 00000 X  
00000

BCD IS STORED IN LEFT MOST 20 BITS OF LOCATION 157.

END

A

1  
1

ORG 32

00040 0 01303 0 00040  
01303 3 00000 0 00040

TD 01304 0 07400 4 00740  
01305 0 01405 0 01404  
01306 0 76000 0 00166  
01307 0 02000 0 00221  
01310 0 50000 0 00312  
01311 0 60100 0 00311  
01312 0 50000 0 01232  
01313 0 62200 0 00316  
01314 0 02000 0 00272  
01315 606060606060 PR  
01316 606060606060  
01317 214560216363  
01320 254447636030  
01321 216260222525  
01322 456044212425  
01323 606346602162  
01324 623127456063  
01325 664660465160  
01326 444651256062  
01327 634651212725  
01330 604346232163  
01331 314645626063  
01332 466063302560  
01333 622144256065  
01334 215131212243  
01335 256045214425  
01336 336060262131  
01337 436451256046  
01340 266060606060  
01341 606060606060  
01342 606060606060  
01343 622523633146  
01344 456001604751  
01345 314425604651  
01346 606225236331  
01347 464560056047  
01350 513144256031  
01351 456063302560  
01352 475125472151  
01353 216331464560  
01354 462660633025  
01355 606321224325  
01356 626046266025  
01357 506431652143  
01360 254523256023  
01361 432162622562  
01362 603021626046  
01363 232364515125

FORCE NEW RECORD  
ORG 32  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 32  
32  
TSX PRINT,4  
HTR PR,0,PR+56  
SWT 6  
TRA DIGRTN  
CLA PRNT4  
STO PRNT2  
CLA ZERO  
STD HTR4  
TRA SPEND  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
341 FT 96  
341 FT 98

BCD AN ATTEMPT HAS BEEN MADE TO ASSIGN TWO OR MORE STORAGE LOCAT

BCD IONS TO THE SAME VARIABLE NAME. FAILURE OF

BCD SECTION 1 PRIME OR SECTION 5 PRIME IN THE PREPARATION OF THE

BCD TABLES OF EQUIVALENCE CLASSES HAS OCCURRED,

01364 247360606060  
01365 606060606060  
01366 606060606060  
01367 465160633025  
01370 512560316260  
01371 214560314523  
01372 464562316263  
01373 214523706031  
01374 456023464444  
01375 464573602550  
01376 643165736021  
01377 452460243144  
01400 606225456325  
01401 452325626031  
01402 456062466451  
01403 232560432145  
01404 276421272533  
01405 0 00000 0 00000 X  
00000

BCD OR THERE IS AN INCONSISTANCY IN COMMON, EQUIV, AND DIM SENTE

BCD 4NCES IN SOURCE LANGUAGE.

END

A



1  
1

ORG 33

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00041 0 01303 0 01403  
01303 3 00000 0 00041  
01304 0 76200 0 00304  
01305 0 46000 0 01325  
01306 0 70000 0 01257  
01307 -0 50000 0 01257  
01310 0 77100 0 00022  
01311 0 56000 0 00717  
01312 -0 76300 0 00022  
01313 0 60200 0 01403  
01314 0 07400 4 00740  
01315 0 01404 0 01326  
01316 0 76000 0 00166  
01317 0 02000 0 00221  
01320 0 50000 0 00312  
01321 0 60100 0 00311  
01322 0 50000 0 01232  
01323 0 62200 0 00316  
01324 0 02000 0 00272  
01325 0 00000 0 00726 A  
01326 606060606060 PR  
01327 606060606060  
01330 214560216363  
01331 254447636063  
01332 466026314524  
01333 602145604647  
01334 255121633146  
01335 456021222251  
01336 256531216331  
01337 464560314560  
01340 633025606321  
01341 224325604626  
01342 606230215125  
01343 604647255121  
01344 633146456260  
01345 302162602621  
01346 314325243360  
01347 603126606330  
01350 256062466451  
01351 232560606060  
01352 606060606060  
01353 606060606060  
01354 475146275121  
01355 446022253145  
01356 276023464447  
01357 314325246031  
01360 626025676351  
01361 254425437060  
01362 432151272560  
01363 633031626044  
01364 217060314524

ORG 33  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 33  
RDR 4  
LDA A  
CPY ERAS  
CAL ERAS  
ARS 18  
LDQ BLANKS  
LGL 18  
SLW OP  
TSX PRINT,4  
HTR PR,0,PR+46  
SWT 6  
TRA DIGRTN  
CLA PRNT4  
STO PRNT2  
CLA ZERO  
STD HTR4  
TRA SPEND  
HTR8726  
BCD 2

352 FT 113

BCD AN ATTEMPT TO FIND AN OPERATION ABBREVIATION IN THE TABLE OF

BCD SHARE OPERATIONS HAS FAILED. IF THE SOURCE

BCD PROGRAM BEING COMPILED IS EXTREMELY LARGE THIS MAY INDICATE

01365 312321632560  
01366 214560466525  
01367 514321476046  
01370 266063212243  
01371 256260314560  
01372 234651256044  
01373 254446517033  
01374 606060606060  
01375 606060606060  
01376 606060606060  
01377 606060606060  
01400 633025604647  
01401 255121633146  
01402 456031626060  
01403 606060606060 OP  
01404 0 00000 0 00000 X  
                  00000

BCD AN OVERLAP OF TABLES IN CORE MEMORY.

BCD 3THE OPERATION IS

BCD 1

END .

A

157

LOT

1  
1  
TD

	ORG 34			00042
	00042	0	01303	0 01410
				01303
	01303	3	00000	0 00042
	01304	0	76200	0 00304
	01305	0	46000	0 01322
	01306	0	70000	0 01401
	01307	-0	50000	0 00717
	01310	0	56000	0 01401
	01311	-0	76300	0 00036
	01312	0	60200	0 01401
	01313	-0	76300	0 00006
	01314	0	56000	0 00717
	01315	-0	76300	0 00036
	01316	0	60200	0 01402
	01317	0	07400	4, 00740
	01320	0	01411	0 01323
	01321	0	02000	0 00272
	01322	0	00000	0 01376 A
	01323	606060606060		PR
	01324	606060606060		
	01325	255151465160		
	01326	314560232151		
	01327	246062255064		
	01330	254523256046		
	01331	266043312251		
	01332	215170604751		
	01333	462751214460		
	01334	464560627062		
	01335	632544606321		
	01336	472560013360		
	01337	602321512460		
	01340	512521246062		
	01341	304664432460		
	01342	222560606060		
	01343	606060606060		
	01344	606060606060		
	01345	606060606060		
	01346	606060606060		
	01347	606060606060		
	01350	606060606060		
	01351	216023464563		
	01352	314564216331		
	01353	464560462660		
	01354	433122512151		
	01355	706047514627		
	01356	512144605125		
	01357	506425626325		
	01360	247360226463		
	01361	604751462751		
	01362	214460232151		
	01363	246030216260		
	01364	222525456026		

FORCE NEW RECORD  
 ORG 34  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 34  
 RDR 4  
 LDA A  
 CPY ERWRD  
 CAL BLANKS  
 LDQ ERWRD  
 LGL 30  
 SLW ERWRD  
 LGL 6  
 LDQ BLANKS  
 LGL 30  
 SLW ERWRD+1  
 TSX PRINT,4  
 HTR PR,0,PR+54  
 TRA SPEND  
 HTR81376  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE

377 FT 115

BCD ERROR IN CARD SEQUENCE OF LIBRARY PROGRAM ON SYSTEM TAPE 1.

BCD CARD READ SHOULD BE

BCD A CONTINUATION OF LIBRARY PROGRAM REQUESTED, BUT PROGRAM CAR

BCD D HAS BEEN FOUND INSTEAD.

1058

01365 466445246031  
01366 456263252124  
01367 336060606060  
01370 606060606060  
01371 606060606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 076043252663  
01376 605146666046  
01377 266023215124  
01400 605125212462  
01401 606060606060  
01402 606060606060  
01403 263145246025  
01404 515146516021  
01405 452460512566  
01406 513163256043  
01407 312251215170  
01410 336060606060  
01411 0 00000 0 00000 X  
          00000

BCD 47 LEFT ROW OF CARD READS

ERWRD BCD 2

BCD 6FIND ERROR AND REWRITE LIBRARY.

END

A

```

1
1
    ORG 35
00043 0 01303 0 01352 00043
    01303
TD 01303 3 00000 0 00043
    01304 0 07400 4 00740
    01305 0 01353 0 01307
    01306 0 02000 0 00221
    01307 606060606060 PR
    01310 606060606060
    01311 632147256023
    01312 302523426031
    01313 456051252124
    01314 314527605125
    01315 234651246026
    01316 514644606330
    01317 256062706263
    01320 254460632147
    01321 256001336060
    01322 263165256021
    01323 636325444763
    01324 626030216525
    01325 602225254560
    01326 442124256063
    01327 466051252124
    01330 606330316260
    01331 606060606060
    01332 606060606060
    01333 606060606060
    01334 606060606060
    01335 512523465124
    01336 602346515125
    01337 236343703360
    01340 604421706022
    01341 256045252325
    01342 626221517060
    01343 634660512566
    01344 513163256043
    01345 312251215170
    01346 602631432560
    01347 604645606330
    01350 256062706263
    01351 254460632147
    01352 253360606060
    01353 0 00000 0 00000 X
          00000
A

```

```

FORCE NEW RECORD
ORG 35
HTR X-1,0,LOCREC
ORG LOCREC
TXH 35
TSX PRINT,4
HTR PR,0,PR+36
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
543 FT 115

```

BCD TAPE CHECK IN READING RECORD FROM THE SYSTEM TAPE 1. FIVE A

BCD TTEMPTS HAVE BEEN MADE TO READ THIS

BCD RECORD CORRECTLY. MAY BE NECESSARY TO REWRITE LIBRARY FILE

BCD 4 ON THE SYSTEM TAPE.

END

1  
1

ORG 36

00044 0 01303 0 01354 00044  
 01303 3 00000 0 00044 01303  
 01304 0 07400 4 00740  
 01305 0 01355 0 01315  
 01306 0 76000 0 00166  
 01307 0 02000 0 00221  
 01310 0 50000 0 00312  
 01311 0 60100 0 00311  
 01312 0 50000 0 01232  
 01313 0 62200 0 00316  
 01314 0 02000 0 00272  
 01315 606060606060 PR  
 01316 606060606060  
 01317 216062642251  
 01320 466463314525  
 01321 602321434360  
 01322 452144256046  
 01323 516021604331  
 01324 225121517060  
 01325 266445236331  
 01326 464560302162  
 01327 602225254560  
 01330 646225246021  
 01331 626021606521  
 01332 513121224325  
 01333 604521442573  
 01334 604651606330  
 01335 255125603021  
 01336 626022252545  
 01337 602160442123  
 01340 303145256060  
 01341 606060606060  
 01342 606060606060  
 01343 255151465160  
 01344 314560234644  
 01345 473143314527  
 01346 606330256045  
 01347 214425336060  
 01350 233025234260  
 01351 624664512325  
 01352 604751462751  
 01353 214433606060  
 01354 606060606060  
 01355 0 00000 0 00000 X  
 00000

TD

FORCE NEW RECORD

ORG 36  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 36  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 SWT 6  
 TRA DIGRTN  
 CLA PRNT4  
 STO PRNT2  
 CLA ZERO  
 STD HTR4  
 TRA SPEND  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

441 FT 98

BCD A SUBROUTINE CALL NAME OR A LIBRARY FUNCTION HAS BEEN USED A

BCD S A VARIABLE NAME, OR THERE HAS BEEN A MACHINE

BCD ERROR IN COMPILING THE NAME. CHECK SOURCE PROGRAM.

END

A

101

1  
1

ORG 37

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

00045 0 01303 0 01374  
01303 3 00000 0 00045  
01304 0 07400 4 00740  
01305 0 01375 0 01315  
01306 0 76000 0 00166  
01307 0 02000 0 00221  
01310 0 50000 0 00312  
01311 0 60100 0 00311  
01312 0 50000 0 01232  
01313 0 62200 0 00316  
01314 0 02000 0 00272  
01315 606060606060  
01316 606060606060  
01317 633025602162  
01320 623127454425  
01321 456360462660  
01322 314562635164  
01323 236331464560  
01324 626346512127  
01325 256043462321  
01326 633146456260  
01327 244625626045  
01330 466360233025  
01331 234260663163  
01332 306063302163  
01333 602731652545  
01334 603145602160  
01335 475125653146  
01336 646260512523  
01337 465124336060  
01340 606060606060  
01341 606060606060  
01342 606060606060  
01343 312660633025  
01344 606246645123  
01345 256047514627  
01346 512144602225  
01347 314527602346  
01350 444731432524  
01351 603162602567  
01352 635125442543  
01353 706043215127  
01354 257360633031  
01355 626062634647  
01356 604421706031  
01357 452431232163  
01360 256060606060  
01361 606060606060  
01362 606060606060  
01363 606060606060  
01364 606060606060

PR

ORG 37  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 37  
TSX PRINT,4  
HTR PR,0,PR+48  
SWT 6  
TRA DIGRTN  
CLA PRNT4  
STO PRNT2  
CLA ZERO  
STD HTR4  
TRA SPEND  
BCD 2

562 FT 113

BCD THE ASSIGNMENT OF INSTRUCTION STORAGE LOCATIONS DOES NOT CHE

BCD CK WITH THAT GIVEN IN A PREVIOUS RECORD.

BCD IF THE SOURCE PROGRAM BEING COMPILED IS EXTREMELY LARGE, THI

BCD S STOP MAY INDICATE

162

01365 606060606060  
01366 606060606060  
01367 214560466525  
01370 514321476046  
01371 266063212243  
01372 256260314560  
01373 442544465170  
01374 336060606060  
01375 0 00000 0 00000 X  
00000

BCD 6AN OVERLAP OF TABLES IN MEMORY.

END

A

1.63





01354 462321633146  
 01355 456063466021  
 01356 604331626360  
 01357 462660076047  
 01360 466262312243  
 01361 256024516444  
 01362 605125212460  
 01363 262131436451  
 01364 256273602264  
 01365 636063302560  
 01366 622521512330  
 01367 606060606060  
 01370 606060606060  
 01371 302162602621  
 01372 314325243360  
 01373 606330256025  
 01374 515146516260  
 01375 215125604331  
 01376 626325246031  
 01377 456001040503  
 01400 736001040503  
 01401 604743646260  
 01402 010373602563  
 01403 233360604751  
 01404 256262606263  
 01405 215163603126  
 01406 607046646066  
 01407 316230606346  
 01410 606060606060  
 01411 606060606060  
 01412 606060606060  
 01413 606060606060  
 01414 606060606060  
 01415 512562634651  
 01416 256044212330  
 01417 314525606346  
 01420 606263216325  
 01421 603145606630  
 01422 312330602551  
 01423 514651604623  
 01424 236451512524  
 01425 336060606060  
 01426 606060606060  
 01427 0 50000 1 01454 B  
 01430 0 60100 2 01631  
 01431 1 77777 2 01432  
 01432 -3 77772 2 01434 F  
 01433 1 77777 1 01427  
 01434 0 50000 1 01455 G  
 01435 0 60100 0 01652  
 01436 0 50000 1 01456  
 01437 0 60100 0 01660  
 01440 0 50000 1 01457  
 01441 0 60100 0 01665

BCD OF 7 POSSIBLE DRUM READ FAILURES, BUT THE SEARCH

BCD HAS FAILED. THE ERRORS ARE LISTED IN 1453, 1453 PLUS 13, ET

BCD C. PRESS START IF YOU WISH TO

BCD RESTORE MACHINE TO STATE IN WHICH ERROR OCCURRED.

CLA A1SIX,1  
 STO PR1SIX,2  
 TXI F,2,-1  
 TXL G,2,-6  
 TXI B,1,-1  
 CLA A1SIX+1,1  
 STO PR2  
 CLA A1SIX+2,1  
 STO PR3  
 CLA A1SIX+3,1  
 STO PR4TWO

01442	0 50000 1 01460	CLA	A1SIX+4,1	
01443	0 60100 0 01666	STO	PR4TWO+1	
01444	0 50000 1 01461	CLA	A1SIX+5,1	
01445	0 60100 0 01700	STO	PR5TWO	
01446	0 50000 1 01462	CLA	A1SIX+6,1	
01447	0 60100 0 01701	STO	PR5TWO+1	
01450	0 07400 4 00740	TSX	PRINT,4	
01451	0 01733 0 01623	HTR	PR,0,PR+72	
01452	0 02000 0 00221	E	TRA DIGRTN	
01453	+000425000000	A	OCT 000425000000	SECTION VI RECORD L62
01454	452760635121	A1SIX	BCD 6NG TRANSFER VECTOR TABLE	
01455	456226255160			
01456	652523634651			
01457	606321224325			
01460	606060606060			
01461	606060606060			
01462	516444600333	A2	BCD 1RUM 3.	
01463	600401013360	A3	BCD 1 411.	
01464	316260314560	A4TWO	BCD 2IS IN 413.	
01465	040103336060			
01466	314560060205	A5TWO	BCD 2IN 625. CO	
01467	336060602346			
01470	+000260000000		OCT 000260000000	SECTION VI RECORD L 61 OR 62
01471	452760255064		BCD 6NG EQUIT TABLE	
01472	316360632122			
01473	432560606060			
01474	606060606060			
01475	606060606060			
01476	606060606060			
01477	516444600133		BCD 1RUM 1.	
01500	600204013360		BCD 1 241.	
01501	316260314560		BCD 2IS IN 361.	
01502	030601336060			
01503	314560030602		BCD 2IN 362. CO	
01504	336060602346			
01505	+000465000000		OCT 000465000000	SECTION VI RECORD L61
01506	452760623171		BCD 6NG SIZE TABLE	
01507	256063212243			
01510	256060606060			
01511	606060606060			
01512	606060606060			
01513	606060606060			
01514	516444600233		BCD 1RUM 2.	
01515	600405003360		BCD 1 450.	
01516	316260314560		BCD 2IS IN 453.	
01517	040503336060			
01520	314560030602		BCD 2IN 362. CO	
01521	336060602346			
01522	+000247000000		OCT 000247000000	SECTION VI - RECORD L 64
01523	452760264651		BCD 6NG FORSUB TABLE	
01524	626422606321			
01525	224325606060			
01526	606060606060			
01527	606060606060			

01530 606060606060  
01531 516444600333  
01532 600203033360  
01533 316260314560  
01534 020305336060  
01535 314560030702  
01536 336060602346  
01537 +000245000000  
01540 452760264651  
01541 626422606321  
01542 224325606060  
01543 606060606060  
01544 606060606060  
01545 606060606060  
01546 516444600333  
01547 600203013360  
01550 316260314560  
01551 020303336060  
01552 314560050506  
01553 336060602346  
01554 +000241000000  
01555 452760635121  
01556 456226255160  
01557 652523634651  
01560 606321224325  
01561 606060606060  
01562 606060606060  
01563 516444600333  
01564 600202053360  
01565 316260314560  
01566 020207336060  
01567 314560010005  
01570 043360602346  
01571 +000277000000  
01572 452760623171  
01573 256063212243  
01574 256060606060  
01575 606060606060  
01576 606060606060  
01577 606060606060  
01600 516444600233  
01601 600206023360  
01602 316260314560  
01603 020605336060  
01604 314560010305  
01605 013360602346  
01606 +000107000000  
01607 452760635121  
01610 456226255160  
01611 652523634651  
01612 606321224325  
01613 606060606060  
01614 606060606060  
01615 516444600333

BCD 1RUM 3.  
BCD 1 233.  
BCD 2IS IN 235.

BCD 2IN 372. CO

OCT 000245000000 SECTION VI - RECORD L66  
BCD 6NG FORSUB TABLE

BCD 1RUM 3.  
BCD 1 231.  
BCD 2IS IN 233.

BCD 2IN 556. CO

OCT 000241000000 SECTION VI - RECORD L 73  
BCD 6NG TRANSFER VECTOR TABLE

BCD 1RUM 3.  
BCD 1 225.  
BCD 2IS IN 227.

• BCD 2IN 1054. CO

OCT 000277000000 SECTION PRE 6  
BCD 6NG SIZE TABLE

BCD 1RUM 2.  
BCD 1 262.  
BCD 2IS IN 265.

BCD 2IN 1351. CO

OCT 000107000000 SECTION PRE 6  
BCD 6NG TRANSFER VECTOR TABLE

BCD 1RUM 3.

1127

01616 600703336060  
01617 316260314560  
01620 070533606060  
01621 314560010306  
01622 063360602346  
01623 606060606060  
01624 606060606060  
01625 233025234260  
01626 626444602551  
01627 514651603145  
01630 605125212431  
01631 452760635121  
01632 456226255160  
01633 652523634651  
01634 606321224325  
01635 606060606060  
01636 606060606060  
01637 606060606060  
01640 606060606060  
01641 606060606060  
01642 606060606060  
01643 606060606060  
01644 606060606060  
01645 606060606060  
01646 606060606060  
01647 606060606060  
01650 606060606060  
01651 265146446024  
01652 516444600333  
01653 606023464770  
01654 604346464760  
01655 222527314562  
01656 602163604346  
01657 232163314645  
01660 600401013360  
01661 606062632151  
01662 633145276024  
01663 516444602124  
01664 245125626260  
01665 316260314560  
01666 040103336060  
01667 606060606060  
01670 606060606060  
01671 606060606060  
01672 606060606060  
01673 606060606060  
01674 606060606060  
01675 245164446023  
01676 302523426062  
01677 644460316260  
01700 314560060205  
01701 336060602346  
01702 444764632524  
01703 602330252342

BCD 1 73.  
BCD 215 IN 75.

BCD 21N 1366. CO

PR BCD 2

BCD 4CHECK SUM ERROR IN READI

PRISIX BCD 6NG TRANSFER VECTOR TABLE

BCD

PR2 BCD 1FROM D  
BCD 1RUM 3.  
BCD 5 COPY LOOP BEGINS AT LOCATION

PR3 BCD 1 411.  
BCD 4 STARTING DRUM ADDRESS

PR4TWO BCD 8IS IN 413.

BCD 3DRUM CHECK SUM IS

PR5TWO BCD 3IN 625. COMPUTED

BCD CHECK SUM IS NOT STORED, THEREFORE IT IS NOT AVAILABLE.

01704 606264446031  
01705 626045466360  
01706 626346512524  
01707 736063302551  
01710 252646512560  
01711 316360316260  
01712 454663602165  
01713 213143212243  
01714 253360606060  
01715 606060606060  
01716 606060606060  
01717 606060606060  
01720 606060606060  
01721 263165256021  
01722 636325444763  
01723 626030216525  
01724 602225254560  
01725 442124256063  
01726 466051252124  
01727 606330316260  
01730 632122432560  
01731 234651512523  
01732 634370336060  
01733 0 00000 0 00000 X  
00000

BCD 4

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS TABLE CORRECTLY.

A

END

1  
1  
ORG 39  
00047 0 01303 0 02017 00047  
01303 3 00000 0 00047

FORCE NEW RECORD  
ORG 39  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 39

FORCE NEW RECORD  
CARD FOR DE

47 FT 58  
734 FT 45  
123 FT 47  
140 FT 56  
305 FT 56  
41 FT 60  
607 FT 60  
70 FT 92  
246 FT 92  
442 FT 96  
500 FT 96  
230 FT 101  
222 FT 105  
222 FT 115

01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 50000 0 01235  
01307 0 40000 0 01236  
01310 0 60100 0 02020  
01311 -0 53400 3 01232  
01312 0 50000 1 01456 D  
01313 0 40200 0 02020  
01314 0 10000 0 01432  
01315 1 77765 1 01316  
01316 3 77546 1 01312 C  
01317 0 07400 4 00740  
01320 0 01432 0 01322  
01321 0 00000 0 01455  
01322 606060606060 ER  
01323 606060606060  
01324 434623216331  
01325 464560462660  
01326 255151465173  
01327 606630312330  
01330 603021626022  
01331 252545604751  
01332 314563252473  
01333 603021626023  
01334 216462252460  
01335 243121274546  
01336 626331236051  
01337 252346512460  
01340 456444222551  
01341 600311606060  
01342 606060606060  
01343 606060606060  
01344 606060606060  
01345 606060606060  
01346 606060606060  
01347 606060606060

TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
CLA ERWORD  
ADD RECORD  
STO X  
LXD ZERO,3  
CLA A,1  
SUB X  
TZE B  
TXI C,1,-11  
TXH D,1,-11\*14  
TSX PRINT,4  
HTR ER,0,ER+72  
HTR E  
BCD 2

BCD LOCATION OF ERROR, WHICH HAS BEEN PRINTED, HAS CAUSED DIAGNO

BCD STIC RECORD NUMBER 39

01350 634660222560  
01351 512521246031  
01352 453360633031  
01353 626051252346  
01354 512460234644  
01355 472151256260  
01356 633025604346  
01357 232163314645  
01360 606346602160  
01361 433162636046  
01362 266001046047  
01363 466262312243  
01364 256024516444  
01365 605125212460  
01366 262131436451  
01367 256273602264  
01370 636063302560  
01371 622521512330  
01372 606060606060  
01373 606060606060  
01374 302162602621  
01375 314325243360  
01376 606330256025  
01377 515146516260  
01400 215125604331  
01401 626325246031  
01402 456001040506  
01403 736001040506  
01404 604743646260  
01405 010173602563  
01406 233360604751  
01407 256262606263  
01410 215163603126  
01411 607046646066  
01412 316230606346  
01413 606060606060  
01414 606060606060  
01415 606060606060  
01416 606060606060  
01417 606060606060  
01420 512562634651  
01421 256044212330  
01422 314525606346  
01423 606263216325  
01424 603145606630  
01425 312330602551  
01426 514651604623  
01427 236451512524  
01430 606060606060  
01431 606060606060  
01432 0 50000 1 01457 B  
01433 0 60100 2 01722  
01434 1 77777 2 01435  
01435 -3 77774 2 01437 F

BCD TO BE READ IN. THIS RECORD COMPARES THE LOCATION TO A LIST O

BCD F 14 POSSIBLE DRUM READ FAILURES, BUT THE SEARCH

BCD HAS FAILED. THE ERRORS ARE LISTED IN 1456, 1456 PLUS 11, ET

BCD C. PRESS START IF YOU WISH TO

BCD RESTORE MACHINE TO STATE IN WHICH ERROR OCCURRED

CLA A1FOR,1  
STO PR1FOR,2  
TXI F,2,-1  
TXL G,2,-4





01524 516444600233  
01525 600701336060  
01526 626071255146  
01527 336060606060  
01530 466001020460  
01531 010205336060  
01532 +000734000055  
01533 602631672346  
01534 456063212243  
01535 256060606060  
01536 606060606060  
01537 516444600233  
01540 600701003360  
01541 626071255146  
01542 336060606060  
01543 466001000007  
01544 010001003360  
01545 +000070000134  
01546 606351214562  
01547 262551606525  
01550 236346516063  
01551 212243256060  
01552 516444600333  
01553 600506336060  
01554 626031456006  
01555 003360606060  
01556 466004050704  
01557 040507053360  
01560 +000246000134  
01561 606231712560  
01562 632122432560  
01563 606060606060  
01564 606060606060  
01565 516444600233  
01566 600203043360  
01567 626031456002  
01570 030733606060  
01571 466001030500  
01572 010305013360  
01573 +000442000140  
01574 606231712560  
01575 632122432560  
01576 606060606060  
01577 606060606060  
01600 516444600233  
01601 600403003360  
01602 626031456004  
01603 030333606060  
01604 466003060660  
01605 030602336060  
01606 +000500000140  
01607 602550643163  
01610 606321224325  
01611 606060606060

BCD 1RUM 2.  
BCD 1 71.  
BCD 2S ZERO.

BCD 10 124  
BCD 1125.  
OCT 000734000055  
BCD 4 FIXCON TABLE

SECTION II - FT 45 BLOCK 4

BCD 1RUM 2.  
BCD 1 710.  
BCD 2S ZERO.

BCD 10 1007  
BCD 11010.  
OCT 000070000134  
BCD 4 TRANSFER VECTOR TABLE

SECTION PRE 6 - FT 92

BCD 1RUM 3.  
BCD 1 56.  
BCD 2S IN 60.

BCD 10 4574  
BCD 14575.  
OCT 000246000134  
BCD 4 SIZE TABLE

SECTION PRE 6 - FT 92

BCD 1RUM 2.  
BCD 1 234.  
BCD 2S IN 237.

BCD 10 1350  
BCD 11351.  
OCT 000442000140  
BCD 4 SIZE TABLE

SECTION VI - FT 96 L 61

BCD 1RUM 2.  
BCD 1 430.  
BCD 2S IN 433.

BCD 10 366  
BCD 1362.  
OCT 000500000140  
BCD 4 EQUIT TABLE

SECTION VI - FT 96 L 62

01612	606060606060		
01613	516444600133	BCD 1RUM 1.	
01614	600406063360	BCD 1 466.	
01615	626031456004	BCD 2S IN 471.	
01616	Q70133606060		
01617	466003070060	BCD 10 370	
01620	030602336060	BCD 1362.	
01621	+000230000145	OCT 000230000145	SECTION VI - FT 101 L 64
01622	602646516264	BCD 4 FORSUB TABLE	
01623	226063212243		
01624	256060606060		
01625	606060606060		
01626	516444600333	BCD 1RUM 3.	
01627	600201053360	BCD 1 215.	
01630	626031456002	BCD 2S IN 217.	
01631	010733606060		
01632	466007000460	BCD 10 704	
01633	030702336060	BCD 1372.	
01634	+000222000151	OCT 000222000151	SECTION VI - FT 105 L 66
01635	602646516264	BCD 4 FORSUB TABLE	
01636	226063212243		
01637	256060606060		
01640	606060606060		
01641	516444600333	BCD 1RUM 3.	
01642	600201003360	BCD 1 210.	
01643	626031456002	BCD 2S IN 212.	
01644	010233606060		
01645	466007020360	BCD 10 723	
01646	050506336060	BCD 1556.	
01647	+000222000163	OCT 000222000163	SECTION VI - FT 115 L 73
01650	606351214562	BCD 4 TRANSFER VECTOR TABLE	
01651	262551606525		
01652	236346516063		
01653	212243256060		
01654	516444600333	BCD 1RUM 3.	
01655	600201003360	BCD 1 210.	
01656	626031456002	BCD 2S IN 212.	
01657	010233606060		
01660	466003020006	BCD 10 3206	
01661	010005043360	BCD 11054.	
01662	+000140000070	OCT 000140000070	SECTION III - FT 56
01663	602330276321	BCD 4 CHGTAG TABLE	
01664	276063212243		
01665	256060606060		
01666	606060606060		
01667	516444600333	BCD 1RUM 3.	
01670	600102073360	BCD 1 127.	
01671	626031456002	BCD 2S IN 2170.	
01672	010700336060		
01673	466005070307	BCD 10 5737	
01674	050704003360	BCD 15740.	
01675	+000305000070	OCT 000305000070	SECTION III - FT 56
01676	606267246367	BCD 4 SXDTX TABLE	
01677	606321224325		

01700 606060606060  
01701 606060606060  
01702 516444600133  
01703 600207043360  
01704 626031456002  
01705 020103336060  
01706 466005070307  
01707 050704003360  
01710 606060606060  
01711 606060606060  
01712 233025234260  
01713 626444602551  
01714 514651603145  
01715 605125212431  
01716 452760633025  
01717 606646512460  
01720 234664456360  
01721 462660633025  
01722 606351214562  
01723 262551606525  
01724 236346516063  
01725 212243256060  
01726 606060606060  
01727 606060606060  
01730 606060606060  
01731 606060606060  
01732 606060606060  
01733 606060606060  
01734 606060606060  
01735 606060606060  
01736 265146446024  
01737 516444600333  
01740 606023464770  
01741 604346464760  
01742 222527314562  
01743 602163604346  
01744 232163314645  
01745 600102033360  
01746 606263215163  
01747 314527602451  
01750 644460212424  
01751 512562626031  
01752 626031456001  
01753 020304336060  
01754 606060606060  
01755 606060606060  
01756 606060606060  
01757 606060606060  
01760 606060606060  
01761 606060606060  
01762 664651246023  
01763 466445636030  
01764 216260222525  
01765 456023464731

BCD 1RUM 1.  
BCD 1 274.  
BCD 2S IN 2213.

PR BCD 10 5737  
BCD 15740.  
BCD 2

BCD 8CHECK SUM ERROR IN READING THE WORD COUNT OF THE

PR1FOR BCD 4 TRANSFER VECTOR TABLE

BCD 8

PR2 BCD 1FROM D  
BCD 1RUM 3.  
BCD 5 COPY LOOP BEGINS AT LOCATION

PR3 BCD 1 123.  
BCD 4 STARTING DRUM ADDRESS I

PR4TWO BCD 8S IN 1234.

BCD 5WORD COUNT HAS BEEN COPIED INT

175

01766 252460314563  
 01767 006001020304  
 01770 602145246031  
 01771 636260233025  
 01772 234260626444  
 01773 603145634660  
 01774 010203043360  
 01775 606060606060  
 01776 606060606060  
 01777 606060606060  
 02000 606060606060  
 02001 606060606060  
 02002 606060606060  
 02003 606060606060  
 02004 606060606060  
 02005 606060606060  
 02006 263165256021  
 02007 636325444763  
 02010 626030216525  
 02011 602225254560  
 02012 442124256063  
 02013 466051252124  
 02014 606330316260  
 02015 254563517060  
 02016 234651512523  
 02017 634370336060  
 02020 0 00000 0 00000 X  
           00000

PR5 BCD 10 1234  
 BCD 4 AND ITS CHECK SUM INTO

PR6 BCD 1234.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS ENTRY CORRECTLY.

A

END



01354 232163314645  
 01355 606346602160  
 01356 433162636046  
 01357 266001006047  
 01360 466262312243  
 01361 256024516444  
 01362 605125212460  
 01363 262131436451  
 01364 256273602264  
 01365 636063302560  
 01366 622521512330  
 01367 606060606060  
 01370 606060606060  
 01371 302162602621  
 01372 314325243360  
 01373 606330256025  
 01374 515146516260  
 01375 215125604331  
 01376 626325246031  
 01377 456001040502  
 01400 736001040502  
 01401 604743646260  
 01402 116025632333  
 01403 606047512562  
 01404 626062632151  
 01405 636031266070  
 01406 466460663162  
 01407 306063466060  
 01410 606060606060  
 01411 606060606060  
 01412 606060606060  
 01413 606060606060  
 01414 606060606060  
 01415 256263465125  
 01416 604421233031  
 01417 452560634660  
 01420 626321632560  
 01421 314560663031  
 01422 233060255151  
 01423 465160462323  
 01424 645151252433  
 01425 606060606060  
 01426 606060606060  
 01427 0 50000 1 01453 B  
 01430 0 60100 0 01615  
 01431 0 50000 1 01454  
 01432 0 60100 0 01616  
 01433 0 50000 1 01455  
 01434 0 60100 0 01621  
 01435 0 50000 1 01456  
 01436 0 60100 0 01636  
 01437 0 50000 1 01457  
 01440 0 60100 0 01637  
 01441 0 50000 1 01460

BCD F 10 POSSIBLE DRUM READ FAILURES, BUT THE SEARCH

BCD HAS FAILED. THE ERRORS ARE LISTED IN 1452, 1452 PLUS 9 ETC.

BCD PRESS START IF YOU WISH TO

BCD RESTORE MACHINE TO STATE IN WHICH ERROR OCCURRED.

CLA A1TWO,1  
 STO PR1TWO  
 CLA A1TWO+1,1  
 STO PR1TWO+1  
 CLA A2,1  
 STO PR2  
 CLA A3TWO,1  
 STO PR3TWO  
 CLA A3TWO+1,1  
 STO PR3TWO+1  
 CLA A4TWO,1

01442	0 60100 0 01644-	STO PR4TWO	
01443	0 50000 1 01461	CLA A4TWO+1,1	
01444	0 60100 0 01645	STO PR4TWO+1	
01445	0 50000 1 01462	CLA A5,1	
01446	0 60100 0 01662	STO PR5	
01447	0 07400 4 00740	TSX PRINT,4	
01450	0 01715 0 01604	HTR PR,0,PR+73	
01451	0 02000 0 00221	TRA DIGRTN	
01452	+004666000000	A	OCT 004666000000
01453	602631672346	A1TWO	BCD 2 FIXCON TABL
01454	456063212243		
01455	023360606060	A2	BCD 12.
01456	633146456004	A3TWO	BCD 2TION 4605.
01457	060005336060		
01460	603145600502	A4TWO	BCD 2 IN 5214.
01461	010433606060		
01462	266001606646	A5	BCD 1F 1 WO
01463	+001141000000		OCT 001141000000
01464	602631672346		BCD 2 FIXCON TABL
01465	456063212243		
01466	023360606060		BCD 12.
01467	633146456001		BCD 2TION 1060.
01470	000600336060		
01471	603145600104		BCD 2 IN 1401
01472	000160606060		
01473	266001606646		BCD 1F 1 WO
01474	+000627000000		OCT 000627000000
01475	602631672346		BCD 2 FIXCON TABL
01476	456063212243		
01477	023360606060		BCD 12.
01500	633146456006		BCD 2TION 610.
01501	010033606060		
01502	603145600101		BCD 2 IN 1143.
01503	040333606060		
01504	266001606646		BCD 1F 1 WO
01505	+000161000000		OCT 000161000000
01506	602330276321		BCD 2 CHGTAG TABL
01507	276063212243		
01510	033360606060		BCD 13.
01511	633146456001		BCD 2TION 141.
01512	040133606060		
01513	603145600201		BCD 2 IN 2172.
01514	070233606060		
01515	266002606646		BCD 1F 2 WO
01516	+007027000000		OCT 007027000000
01517	602646516521		BCD 2 FORVAL TABL
01520	436063212243		
01521	023360606060		BCD 12.
01522	633146456006		BCD 2TION 6776.
01523	070706336060		
01524	603145600607		BCD 2 IN 6706.
01525	000633606060		
01526	266002606646		BCD 1F 2 WO
01527	+006762000000		OCT 006762000000

SECTION II - BLOCK 5

SECTION II - BLOCK 4

SECTION III - FT60

SECTION III - FT56

SECTION II - BLOCK 3

SECTION II - BLOCK 3-C



01530 606362672346  
 01531 446063212243  
 01532 033360606060  
 01533 633146456006  
 01534 070203336060  
 01535 603145600607  
 01536 010633606060  
 01537 266002606646  
 01540 +006357000000  
 01541 602646516521  
 01542 436063212243  
 01543 023360606060  
 01544 633146456006  
 01545 020101336060  
 01546 603145600603  
 01547 060233606060  
 01550 266002606646  
 01551 +000107000000  
 01552 606351216263  
 01553 466063212243  
 01554 033360606060  
 01555 633146456005  
 01556 063360606060  
 01557 603145600203  
 01560 030633606060  
 01561 266003606646  
 01562 +000334000000  
 01563 606062672463  
 01564 676063212243  
 01565 013360606060  
 01566 633146456003  
 01567 000633606060  
 01570 603145600202  
 01571 010433606060  
 01572 266002606646  
 01573 +000216000000  
 01574 606021246321  
 01575 276063212243  
 01576 033360606060  
 01577 633146456001  
 01600 050033606060  
 01601 603145600201  
 01602 073360606060  
 01603 266004606646  
 01604 606060606060  
 01605 606060606060  
 01606 233025234260  
 01607 626444602551  
 01610 514651603145  
 01611 605125212431  
 01612 452760214560  
 01613 254563517060  
 01614 462660633025  
 01615 602631672346

BCD 2 TSXCOM TABL

BCD 13.  
 BCD 2TION 6723.

BCD 2 IN 6716.

BCD 1F 2 WO  
 OCT 006357000000  
 BCD 2 FORVAL TABL

SECTION II - BLOCK2 - STATE B

BCD 12.  
 BCD 2TION 6211.

BCD 2 IN 6362.

BCD 1F 2 WO  
 OCT 000107000000  
 BCD 2 TRASTO TABL

SECTION III - FT 58

BCD 13.  
 BCD 2TION 56.

BCD 2 IN 2336.

BCD 1F 3 WO  
 OCT 000334000000  
 BCD 2 SXDTX TABL

SECTION III

BCD 11.  
 BCD 2TION 306.

BCD 2 IN 2214.

BCD 1F 2 WO  
 OCT 000216000000  
 BCD 2 ADTAG TABL

SECTION II - BLOCK 5

BCD 13.  
 BCD 2TION 150.

BCD 2 IN 217.

BCD 1F 4 WO  
 BCD 2

PR

BCD 7CHECK SUM ERROR IN READING AN ENTRY OF THE

PR1TWO BCD 2 FIXCON TABL

01616 456063212243  
01617 256026514644  
01620 602451644460  
01621 023360606060  
01622 606060606060  
01623 606060606060  
01624 606060606060  
01625 606060606060  
01626 606060606060  
01627 606060606060  
01630 606060606060  
01631 606060606060  
01632 234647706043  
01633 464647602225  
01634 273145626021  
01635 636043462321  
01636 633146456001  
01637 020304336060  
01640 626321516331  
01641 452760245164  
01642 446021242451  
01643 256262603162  
01644 603145600102  
01645 030433606060  
01646 606060606060  
01647 606060606060  
01650 606060606060  
01651 606060606060  
01652 606060606060  
01653 606060606060  
01654 606060606060  
01655 606060606060  
01656 633031626063  
01657 212243256031  
01660 626023464447  
01661 466225246046  
01662 266001606646  
01663 512460254563  
01664 513125626021  
01665 452460216023  
01666 302523426062  
01667 644460264651  
01670 602521233060  
01671 254563517033  
01672 606060606060  
01673 606060606060  
01674 606060606060  
01675 606060606060  
01676 606060606060  
01677 606060606060  
01700 606060606060  
01701 606060606060  
01702 263165256021  
01703 636325444763

BCD 2E FROM DRUM

PR2 BCD 92.

BCD 4COPY LOOP BEGINS AT LOCA

PR3TWO BCD 2TION 1234.

BCD 4STARTING DRUM ADDRESS IS

PR4TWO BCD 2 IN 1234.

BCD 8

BCD 4THIS TABLE IS COMPOSED 0

PR5 BCD 1F 1 WO  
BCD RD ENTRIES AND A CHECK SUM FOR EACH ENTRY.

BCD 5

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THE ENTIRE TABLE CORREC

01704 626030216525  
01705 602225254560  
01706 442124256063  
01707 466051252124  
01710 606330256025  
01711 456331512560  
01712 632122432560  
01713 234651512523  
01714 634370336060  
01715 0 00000 0 00000 X  
00000

A

BCD 1TLY.

END

1  
1

TD

ORG 41  
 00051 0 01303 0 01443  
 01303 3 00000 0 00051  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 -0 53400 2 00000  
 01307 3 00001 2 01322  
 01310 0 50000 0 01437  
 01311 0 60100 0 01336  
 01312 0 50000 0 01440  
 01313 0 60100 0 01400  
 01314 0 50000 0 01441  
 01315 0 60100 0 01403  
 01316 0 50000 0 01442  
 01317 0 60100 0 01411  
 01320 0 50000 0 01443  
 01321 0 60100 0 01416  
 01322 0 07400 4 00740  
 01323 0 01437 0 01325  
 01324 0 02000 0 00221  
 01325 606060606060  
 01326 606060606060  
 01327 233025234260  
 01330 626444602551  
 01331 514651603145  
 01332 605125212431  
 01333 452760245164  
 01334 446001336060  
 01335 633025606263  
 01336 216325602260  
 01337 234624314527  
 01340 606462252460  
 01341 227060622523  
 01342 633146456031  
 01343 317360224346  
 01344 234260027360  
 01345 302162602225  
 01346 254560606060  
 01347 606060606060  
 01350 606060606060  
 01351 606060606060  
 01352 606060606060  
 01353 512521246031  
 01354 456346604346  
 01355 232163314645  
 01356 626005050606  
 01357 606330514664  
 01360 273060060506  
 01361 053360606330  
 01362 256023464447  
 01363 646325246023  
 01364 302523426062

PRIN

PR

PR1

FORCE NEW RECORD  
 ORG 41  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 41  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 LXD 0,2  
 TXH PRIN,2,1  
 CLA A1  
 STO PR1  
 CLA A2  
 STO PR2  
 CLA A3  
 STO PR3  
 CLA A4  
 STO PR4  
 CLA A5  
 STO PR5  
 TSX PRINT,4  
 HTR PR,0,PR+74  
 TRA DIGRTN  
 BCD 2  
 BCD 7CHECK SUM ERROR IN READING DRUM 1. THE ST

FORCE NEW RECORD  
 CARD FOR DE  
 5560 FT 34  
 IR 2EQUALS 2 FOR STATE B, BCD IS SET UP

BCD 7CHECK SUM ERROR IN READING DRUM 1. THE ST

BCD IATE B  
 BCD CODING USED BY SECTION II, BLOCK 2, HAS BEEN

BCD 2

BCD READ INTO LOCATIONS 5566 THROUGH 6565. THE COMPUTED CHECK S

183

01365 644473604346  
 01366 232163314645  
 01367 600505060173  
 01370 603162602346  
 01371 444721512524  
 01372 606346606330  
 01373 256047255144  
 01374 214525456360  
 01375 606060606060  
 01376 606060606060  
 01377 626321632560  
 01400 226062644460  
 01401 314560434623  
 01402 216331464560  
 01403 050506023360  
 01404 602346477060  
 01405 434646476022  
 01406 252731456260  
 01407 216360434623  
 01410 216331464560  
 01411 050503043360  
 01412 606263215163  
 01413 314527602451  
 01414 644460212424  
 01415 512562626031  
 01416 626001000000  
 01417 336060606060  
 01420 606060606060  
 01421 606060606060  
 01422 606060606060  
 01423 263165256021  
 01424 636325444763  
 01425 626030216525  
 01426 602225254560  
 01427 442124256063  
 01430 466051252124  
 01431 606330316260  
 01432 224346234260  
 01433 462660475146  
 01434 275121446023  
 01435 465151252363  
 01436 437033606060  
 01437 216325602160  
 01440 216062644460  
 01441 050506033360  
 01442 050505053360  
 01443 626071255146  
 01444 0 00000 0 00000 X

BCD UM, LOCATION 5561, IS COMPARED TO THE PERMANENT

PR2 BCD 1STATE  
 BCD 3B SUM IN LOCATION

PR3 BCD 65562. COPY LOOP BEGINS AT LOCATION

PR4 BCD 55534. STARTING DRUM ADDRESS I

PR5 BCD 55 1000.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS BLOCK OF PROGRAM C

BCD 2ORRECTLY.

A1 BCD 1ATE A  
 A2 BCD 1A SUM  
 A3 BCD 15563.  
 A4 BCD 15555.  
 A5 BCD 1S ZERO

END

A

00000

1004

1  
1

TD

00052 0 01303 0 01471  
 01303 3 00000 0 00052  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 -0 53400 2 00000  
 01307 3 00001 2 01322  
 01310 0 50000 0 01465  
 01311 0 60100 0 01336  
 01312 0 50000 0 01466  
 01313 0 60100 0 01363  
 01314 0 50000 0 01467  
 01315 0 60100 0 01424  
 01316 0 50000 0 01470  
 01317 0 60100 0 01427  
 01320 0 50000 0 01471  
 01321 0 60100 0 01442  
 01322 0 07400 4 00740  
 01323 0 01465 0 01325  
 01324 0 02000 0 00221  
 01325 606060606060  
 01326 606060606060  
 01327 233025234260  
 01330 626444602551  
 01331 514651603145  
 01332 605125212431  
 01333 452760245164  
 01334 446001336060  
 01335 633025606263  
 01336 216325602260  
 01337 234624314527  
 01340 606462252460  
 01341 227060622523  
 01342 633146456031  
 01343 317360224346  
 01344 234260027360  
 01345 302162604164  
 01346 626360606060  
 01347 606060606060  
 01350 606060606060  
 01351 606060606060  
 01352 606060606060  
 01353 222525456066  
 01354 513163632545  
 01355 604645606330  
 01356 256024516444  
 01357 736022252731  
 01360 454531452760  
 01361 216360434623  
 01362 216331464560  
 01363 01000003360  
 01364 606346606525

PRIN

PR

PR1

PR2

FORCE NEW RECORD  
 ORG 42  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 42  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 LXN 0,2  
 TXH PRIN,2,1  
 CLA A1  
 STO PR1  
 CLA A2  
 STO PR2  
 CLA A3  
 STO PR3  
 CLA A4  
 STO PR4  
 CLA A5  
 STO PR5  
 TSX PRINT,4  
 HTR PR,0,PR+96  
 TRA DIGRTN  
 BCD 2  
  
 BCD 7CHECK SUM ERROR IN READING DRUM 1. THE ST  
  
 BCD 1ATE B  
 BCD CODING USED BY SECTION II, BLOCK 2, HAS JUST  
  
 BCD 2  
 BCD 8BEEN WRITTEN ON THE DRUM, BEGINNING AT LOCATION  
  
 BCD 11000.  
 BCD TO VERIFY THAT THIS HAS BEEN DONE CORRECTLY,

FORCE NEW RECORD  
CARD FOR DE

7760 FT 30

IR2 EQUALS 2 FOR STATE B, BCD IS SETUP

1005

01365 513126706063  
01366 302163606330  
01367 316260302162  
01370 602225254560  
01371 244645256023  
01372 465151252363  
01373 437073606060  
01374 606060606060  
01375 606060606060  
01376 606060606060  
01377 316360316260  
01400 512521246022  
01401 212342603145  
01402 634660040506  
01403 066063305146  
01404 642730600505  
01405 060533606063  
01406 302560234644  
01407 476463252460  
01410 233025234260  
01411 626444736043  
01412 462321633146  
01413 456007070703  
01414 736031626023  
01415 464447215125  
01416 246063466021  
01417 604725514421  
01420 452545636060  
01421 606060606060  
01422 606060606060  
01423 626321632560  
01424 226062644460  
01425 314560434623  
01426 216331464560  
01427 070706033360  
01430 606330256062  
01431 642251466463  
01432 314525606630  
01433 312330606651  
01434 316325626021  
01435 452460512521  
01436 246260633025  
01437 602451644460  
01440 222527314562  
01441 602163600707  
01442 030033606060  
01443 606060606060  
01444 606060606060  
01445 606060606060  
01446 606060606060  
01447 263165256021  
01450 636325444763  
01451 626030216525  
01452 602225254560

BCD 1  
BCD IT IS READ BACK INTO 4566 THROUGH 5565. THE COMPUTED CHECK

BCD SUM, LOCATION 7773, IS COMPARED TO A PERMANENT

PR3 BCD 1STATE  
BCD 3B SUM IN LOCATION

PR4 BCD 17763.  
BCD THE SUBROUTINE WHICH WRITES AND READS THE DRUM BEGINS AT 77

PR5 BCD 530.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO WRITE AND READ THIS BLOCK OF

01453 442124256063  
01454 466066513163  
01455 256021452460  
01456 512521246063  
01457 303162602243  
01460 462342604626  
01461 604751462751  
01462 214460234651  
01463 -512523634370  
01464 336060606060  
01465 216325602160 A1  
01466 712551463360 A2  
01467 216062644460 A3  
01470 070706043360 A4  
01471 030233606060 A5  
01472 0 00000 0 00000 X  
                          00000

BCD 4 PROGRAM CORRECTLY.

BCD 1ATE A  
BCD 1ZERO.  
BCD 1A SUM  
BCD 17764.  
BCD 132.

END

A

1.7



1  
1  
TD  
ORG 43  
00053 0 01303 0 00053  
01303 3 00000 0 00053  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 50000 0 01235  
01307 0 40200 0 01325  
01310 -0 12000 0 01317  
01311 0 50000 0 01322  
01312 0 60100 0 01335  
01313 0 50000 0 01323  
01314 0 60100 0 01336  
01315 0 50000 0 01324  
01316 0 60100 0 01337  
01317 0 07400 4 00740 PRIN  
01320 0 01424 0 01326  
01321 0 02000 0 00221  
01322 446002336060 A1  
01323 633025602143 A2  
01324 473021606263 A3  
01325 +004007000000 ALPHA  
01326 606060606060 PR  
01327 606060606060  
01330 233025234260  
01331 626444602551  
01332 514651603145  
01333 605125212431  
01334 452760245164  
01335 446001336060 PR1  
01336 633025606022 PR2  
01337 256321606263 PR3  
01340 216325602346  
01341 243145276064  
01342 622524602270  
01343 606225236331  
01344 464560313173  
01345 602243462342  
01346 600573603021  
01347 626022252545  
01350 605125212460  
01351 606060606060  
01352 606060606060  
01353 606060606060  
01354 314563466006  
01355 020206606330  
01356 514664273060  
01357 070202057360  
01360 626321516331  
01361 452760265146  
01362 446024516444  
01363 602124245125

FORCE NEW RECORD  
ORG 43  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 43  
43  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
CLA ERWORD  
SUB ALPHA  
TMI PRIN  
CLA A1  
STO PR1  
CLA A2  
STO PR2  
CLA A3  
STO PR3  
TSX PRINT,4  
HTR PR,0,PR+62  
TRA DIGRTN  
BCD 1M 2.  
BCD 1THE AL  
BCD 1PHA ST  
OCT 004007000000  
BCD 2  
BCD 5CHECK SUM ERROR IN READING DRU  
BCD 1M 1.  
BCD 1THE B  
BCD ETA STATE CODING USED BY SECTION II, BLOCK 5, HAS BEEN READ  
BCD 3  
BCD INTO 6226 THROUGH 7225, STARTING FROM DRUM ADDRESS 1751. TH

FORCE NEW RECORD  
CARD FOR DE

4006 FT 51  
4007 FT 51

4007 IF ALPHA STATE, BCD NOT SET UP  
FOR ALPHA

01364 626260010705  
01365 013360606330  
01366 256024516444  
01367 602330252342  
01370 606264446031  
01371 626031456005  
01372 020002336060  
01373 606060606060  
01374 606060606060  
01375 606060606060  
01376 606060606060  
01377 606060606060  
01400 633025602346  
01401 444764632524  
01402 602330252342  
01403 606264446031  
01404 626031456005  
01405 020003336060  
01406 263165256021  
01407 636325444763  
01410 626030216525  
01411 602225254560  
01412 442124256063  
01413 466051252124  
01414 606330316260  
01415 224346234260  
01416 462660475146  
01417 275121446023  
01420 465151252363  
01421 437060606060  
01422 606060606060  
01423 606060606060  
01424 0 00000 0 00000 X  
00000

BCD E DRUM CHECK SUM IS IN 5202.

BCD THE COMPUTED CHECK SUM IS IN 5203. FIVE ATTEMPTS HAVE BEEN

BCD MADE TO READ THIS BLOCK OF PROGRAM CORRECTLY

END

A

129

1  
1

ORG 44

00054 0 01303 0 00054  
 01303 3 00000 0 00054  
 01304 0 07400 4 00740  
 01305 0 01237 0 01237  
 01306 0 50000 0 06762  
 01307 0 77100 0 00022  
 01310 -0 32000 0 01227  
 01311 0 60100 0 01257  
 01312 0 50000 0 01415  
 01313 0 40200 0 01257  
 01314 0 07400 4 00730  
 01315 0 60200 0 01415  
 01316 -0 50000 0 01414  
 01317 0 56000 0 01415  
 01320 0 77100 0 00022  
 01321 -0 76300 0 00022  
 01322 0 60200 0 01414  
 01323 -0 76300 0 00022  
 01324 0 56000 0 00717  
 01325 -0 76300 0 00022  
 01326 0 60200 0 01415  
 01327 0 07400 4 00740  
 01330 0 01442 0 01332  
 01331 0 02000 0 00221  
 01332 606060606060  
 01333 606060606060  
 01334 233025234260  
 01335 626444602551  
 01336 514651603145  
 01337 605125212431  
 01340 452760452144  
 01341 256063212243  
 01342 256026514644  
 01343 602451644460  
 01344 033360606060  
 01345 606060606060  
 01346 606060606060  
 01347 606060606060  
 01350 606060606060  
 01351 606060606060  
 01352 606060606060  
 01353 606060606060  
 01354 606060606060  
 01355 606060606060  
 01356 606060606060  
 01357 606060606060  
 01360 234647706043  
 01361 464647602225  
 01362 273145626021  
 01363 636043462321  
 01364 633146456006

FORCE NEW RECORD

ORG 44  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 44  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN  
 CLA 3570  
 ARS 18  
 ANA ADDMSK  
 STO ERAS  
 CLA PR1  
 SUB ERAS  
 TSX OCTBCD,4  
 SLW PR1  
 CAL PR1-1  
 LDQ PR1  
 ARS 18  
 LGL 18  
 SLW PR1-1  
 LGL 18  
 LDQ BLANKS  
 LGL 18  
 SLW PR1  
 TSX PRINT,4  
 HTR PR,0,PR+72  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

6765 FT 36

OCTAL 6762 - DEC HAS CONTENTS IRI

PR

BCD CHECK SUM ERROR IN READING NAME TABLE FROM DRUM 3.

BCD

BCD COPY LOOP BEGINS AT LOCATION 6731. STARTING DRUM ADDRESS IS

01365 070301336060  
01366 626321516331  
01367 452760245164  
01370 446021242451  
01371 256262603162  
01372 603145600607  
01373 000733606060  
01374 606060606060  
01375 606060606060  
01376 606060606060  
01377 606060606060  
01400 606060606060  
01401 606060606060  
01402 606060606060  
01403 606060606060  
01404 234644476463  
01405 252460233025  
01406 234260626444  
01407 603162603145  
01410 600607070133  
01411 602451644460  
01412 233025234260  
01413 626444603162  
01414 603145606060  
01415 +000000006771  
01416 606060606060  
01417 606060606060  
01420 606060606060  
01421 606060606060  
01422 606060606060  
01423 606060606060  
01424 606060606060  
01425 606060606060  
01426 606060606060  
01427 606060606060  
01430 263165256021  
01431 636325444763  
01432 626030216525  
01433 602225254560  
01434 442124256063  
01435 466051252124  
01436 606330316260  
01437 632122432560  
01440 234651512523  
01441 634370336060  
01442 0 00000 0 00000 X  
00000

BCD IN 6707.

BCD 9COMPUTED CHECK SUM IS IN 6771. DRUM CHECK SUM IS IN

PR1 OCT 000000006771  
BCD

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS TABLE CORRECTLY.

END

A

1  
1  
ORG 45  
00055 0 01303 0 00055  
01303 3 00000 0 00055  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01450 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 233025234260  
01314 626444602551  
01315 514651603145  
01316 605125212431  
01317 452760632122  
01320 432560315165  
01321 602651464460  
01322 245164446003  
01323 336060253163  
01324 302551606330  
01325 256066465124  
01326 602346644563  
01327 736043462321  
01330 633146456001  
01331 000007736060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 244625626045  
01340 466360212751  
01341 252560663163  
01342 306031636260  
01343 466645602330  
01344 252342606264  
01345 447360434623  
01346 216331464560  
01347 010001007360  
01350 465160633025  
01351 602346444764  
01352 632524602330  
01353 252342606264  
01354 446046266063  
01355 302560632122  
01356 432573606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 434623216331  
01364 464560010001

FORCE NEW RECORD  
ORG 45  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 45  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+95  
TRA DIGRTN  
BCD 2  
FORCE NEW RECORD  
CARD FOR DE  
1006 FT 45  
BCD CHECK SUM ERROR IN READING TABLE IRV FROM DRUM 3. EITHER TH  
BCD E WORD COUNT, LOCATION 1007,  
BCD DOES NOT AGREE WITH ITS OWN CHECK SUM, LOCATION 1010, OR THE  
BCD COMPUTED CHECK SUM OF THE TABLE,  
BCD LOCATION 1011, DOES NOT AGREE WITH THE DRUM CHECK SUM. THE

01365 017360244625  
01366 626045466360  
01367 212751252560  
01370 663163306063  
01371 302560245164  
01372 446023302523  
01373 426062644433  
01374 606063302560  
01375 245164446023  
01376 302523426062  
01377 644460302162  
01400 602225254560  
01401 234647312524  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 314563466043  
01410 462321633146  
01411 456060740403  
01412 056047436462  
01413 606646512460  
01414 234664456334  
01415 336060234647  
01416 706043464647  
01417 602225273145  
01420 626021636043  
01421 462321633146  
01422 456007050233  
01423 606062632151  
01424 633145276024  
01425 516444602124  
01426 245125626260  
01427 316260010300  
01430 043360606060  
01431 606060606060  
01432 606060606060  
01433 263165256021  
01434 636325444763  
01435 626030216525  
01436 602225254560  
01437 442124256063  
01440 466051252124  
01441 606330256066  
01442 465124602346  
01443 644563602145  
01444 246063302560  
01445 632122432560  
01446 234651512523  
01447 634370336060  
01450 0 00000 0 00000 X  
00000

BCD DRUM CHECK SUM HAS BEEN COPIED

BCD INTO LOCATION (435 PLUS WORD COUNT). COPY LOOP BEGINS AT L

BCD OCATION 752. STARTING DRUM ADDRESS IS 1304.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THE WORD COUNT AND THE

BCD 3TABLE CORRECTLY.

END

A

193

1  
1

ORG 46

00056	0	01303	0	01447
				01303
TD 01303	3	00000	0	00056
01304	0	07400	4	00740
01305	0	01244	0	01237
01306	0	76200	0	00304
01307	0	46000	0	01337
01310	0	70000	0	01257
01311	0	50000	0	01257
01312	-0	32000	0	01230
01313	0	40200	0	01234
01314	0	77100	0	00022
01315	0	60000	0	01257
01316	0	62100	0	01257
01317	0	50000	0	01423
01320	0	40200	0	01257
01321	0	07400	4	00730
01322	0	60200	0	01423
01323	-0	50000	0	01422
01324	0	56000	0	01423
01325	0	77100	0	00014
01326	-0	76300	0	00014
01327	0	60200	0	01422
01330	-0	76300	0	00030
01331	0	56000	0	00717
01332	-0	76300	0	00014
01333	0	60200	0	01423
01334	0	07400	4	00740
01335	0	01450	0	01340
01336	0	02000	0	00221
01337	0	00000	0	01227 A
01340	606060606060			PR
01341	606060606060			
01342	233025234260			
01343	626444602551			
01344	514651603145			
01345	605125212431			
01346	452760636267			
01347	234644606321			
01350	224325602651			
01351	464460245164			
01352	446003336060			
01353	606060606060			
01354	606060606060			
01355	606060606060			
01356	606060606060			
01357	606060606060			
01360	606060606060			
01361	606060606060			
01362	606060606060			
01363	606060606060			
01364	606060606060			

FORCE NEW RECORD

ORG 46  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 46  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
RDR 4  
LDA A  
CPY ERAS  
CLA ERAS  
ANA DECMSK  
SUB PREFX1  
ARS 18  
STZ ERAS  
STA ERAS  
CLA PR1  
SUB ERAS  
TSX OCTBCD,4  
SLW PR1  
CAL PR1-1  
LDQ PR1  
ARS 12  
LGL 12  
SLW PR1-1  
LGL 24  
LDQ BLANKS  
LGL 12  
SLW PR1  
TSX PRINT,4  
HTR PR,0,PR+72  
TRA DIGRTN  
HTR81227  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

72 FT 60

IR1 IN DEC-WILL SHOW WHERE CHECK SUM IS UNCOMPLIMENT

BCD CHECK SUM ERROR IN READING TSXCOM TABLE FROM DRUM 3.

BCD

01365 606060606060  
01366 234647706043  
01367 464647602225  
01370 273145626021  
01371 636043462321  
01372 633146456004  
01373 023360606263  
01374 215163314527  
01375 602451644460  
01376 212424512562  
01377 626031626031  
01400 456001010500  
01401 336060606060  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 606060606060  
01410 606060606060  
01411 606060606060  
01412 234644476463  
01413 252460233025  
01414 234260626444  
01415 603162603145  
01416 600102020633  
01417 606024516444  
01420 602330252342  
01421 606264446031  
01422 626031456060  
01423 +000000001230  
01424 606060606060  
01425 606060606060  
01426 606060606060  
01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 606060606060  
01434 606060606060  
01435 606060606060  
01436 263165256021  
01437 636325444763  
01440 626030216525  
01441 602225254560  
01442 442124256063  
01443 466051252124  
01444 606330316260  
01445 632122432560  
01446 234651512523  
01447 634370336060  
01450 0 00000 0 0000C X  
00000

BCD COPY LOOP BEGINS AT LOCATION 42. STARTING DRUM ADDRESS IS I

BCD N 1150.

BCD 9COMPUTED CHECK SUM IS IN 1226. DRUM CHECK SUM IS IN

PR1 OCT 000000001230  
BCD

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS TABLE CORRECTLY.

END

A

T

173



1  
1  
ORG 47  
00057 0 01303 0 01470 00057  
01303 3 00000 0 00057 01303  
TD 01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01471 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 233025234260  
01314 626444602551  
01315 514651603145  
01316 605125212431  
01317 452760244623  
01320 215125606321  
01321 224325602651  
01322 464460245164  
01323 446001336060  
01324 633031626063  
01325 212243256066  
01326 216260665131  
01327 636325456021  
01330 626021600160  
01331 664651246025  
01332 456351706021  
01333 452460216060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 233025234260  
01340 626444604626  
01341 606330216360  
01342 254563517060  
01343 222527314545  
01344 314527602163  
01345 600260464560  
01346 633025602451  
01347 644433606063  
01350 302560016066  
01351 465124602545  
01352 635131256260  
01353 215125602346  
01354 473125246022  
01355 212342662151  
01356 246260606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 314563466023  
01364 465125626022

FORCE NEW RECORD  
ORG 47  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 47  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+112  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1135 FT 62

BCD CHECK SUM ERROR IN READING DOCARE TABLE FROM DRUM 1. THIS T

BCD ABLE WAS WRITTEN AS A 1 WORD ENTRY AND A

BCD CHECK SUM OF THAT ENTRY BEGINNING AT 2 ON THE DRUM. THE 1 W

BCD ORD ENTRIES ARE COPIED BACKWARDS

BCD INTO CORES BEGINNING 4216. THEIR CHECK SUMS ARE COPIED BACK

1/16

01365 252731454531  
01366 452760040201  
01367 063360606330  
01370 253151602330  
01371 252342606264  
01372 446260215125  
01373 602346473125  
01374 246022212342  
01375 662151246260  
01376 314563466023  
01377 465125626022  
01400 252731454531  
01401 452760216360  
01402 040306033360  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 216043462731  
01410 232143606264  
01411 446046266025  
01412 212330604626  
01413 606330256051  
01414 256264436331  
01415 452760632122  
01416 432562603162  
01417 602446452533  
01420 606023302523  
01421 426062644460  
01422 462660633025  
01423 602545635131  
01424 256260316260  
01425 314560010005  
01426 336060606060  
01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 233025234260  
01434 626444604626  
01435 606330256023  
01436 302523426062  
01437 644462603162  
01440 603145600100  
01441 063360606330  
01442 256023464770  
01443 604346464760  
01444 222527314562  
01445 602163604346  
01446 232163314645  
01447 600101000233  
01450 606060606060  
01451 606060606060  
01452 606060606060

BCD WARDS INTO CORES BEGINNING AT 4363.

BCD A LOGICAL SUM OF EACH OF THE RESULTING TABLES IS DONE. CHEC

BCD K SUM OF THE ENTRIES IS IN 105.

BCD CHECK SUM OF THE CHECK SUMS IS IN 106. THE COPY LOOP BEGINS

BCD AT LOCATION 1102.

01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 263165256021  
01460 636325444763  
01461 626030216525  
01462 602225254560  
01463 442124256063  
01464 466051252124  
01465 606330316260  
01466 512523465124  
01467 602346515125  
01470 236343703360  
01471 0 00000 0 00000 X  
00000

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1  
1

ORG 48  
 00060 0 01303 0 01724 00060  
 01303 3 00000 0 00060 01303

TD

01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 -0 53400 3 01232  
 01307 0 50000 1 01453 C1  
 01310 0 40200 0 01235  
 01311 0 10000 0 01427  
 01312 1 77777 1 01313  
 01313 3 77636 1 01307 C  
 01314 0 07400 4 00740  
 01315 0 01427 0 01317  
 01316 0 00000 0 01452  
 01317 606060606060 ER  
 01320 606060606060  
 01321 434623216331  
 01322 464560462660  
 01323 255151465173  
 01324 606630312330  
 01325 603021626022  
 01326 252545604751  
 01327 314563252473  
 01330 603021626023  
 01331 216462252460  
 01332 243121274546  
 01333 626331236051  
 01334 252346512460  
 01335 456444222551  
 01336 600410606060  
 01337 606060606060  
 01340 606060606060  
 01341 606060606060  
 01342 606060606060  
 01343 606060606060  
 01344 606060606060  
 01345 634660222560  
 01346 512521246031  
 01347 453360606330  
 01350 316260512523  
 01351 465124602346  
 01352 444721512562  
 01353 606330256043  
 01354 462321633146  
 01355 456063466021  
 01356 604331626360

FORCE NEW RECORD

ORG 48  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 48  
 48  
 48  
 48  
 48  
 48  
 48

FORCE NEW RECORD  
CARD FOR DE

341 FT 67  
 3143 FT 64  
 103 FT 67  
 160 FT 67  
 263 FT 67  
 64 FT 71  
 256 FT 73

TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 LXD ZERO,3  
 CLA A,1  
 SUB ERWORD  
 TZE B  
 TXI C,1,-1  
 TXH C1,1,-14\*7  
 TSX PRINT,4  
 HTR ER,0,ER+72  
 HTR D  
 BCD 2

BCD LOCATION OF ERROR, WHICH HAS BEEN PRINTED, HAS CAUSED DIAGNO

BCD STIC RECORD NUMBER 48

BCD TO BE READ IN. THIS RECORD COMPARES THE LOCATION TO A LIST

157

01357 462660076047  
 01360 466262312243  
 01361 256024516444  
 01362 605125212460  
 01363 262131436451  
 01364 256273602264  
 01365 636063302560  
 01366 622521512330  
 01367 606060606060  
 01370 606060606060  
 01371 302162602621  
 01372 314325243360  
 01373 606330256025  
 01374 515146516260  
 01375 215125604331  
 01376 626325246031  
 01377 456001040701  
 01400 736001040701  
 01401 604743646260  
 01402 010473602563  
 01403 233360604751  
 01404 256262606263  
 01405 215163603126  
 01406 607046646066  
 01407 316230606346  
 01410 606060606060  
 01411 606060606060  
 01412 606060606060  
 01413 606060606060  
 01414 606060606060  
 01415 512562634651  
 01416 256044212330  
 01417 314525606346  
 01420 606263216325  
 01421 603145606630  
 01422 312330602551  
 01423 514651604623  
 01424 236451512524  
 01425 336060606060  
 01426 606060606060  
 01427 0 50000 1 01454 B  
 01430 0 60100 2 01623  
 01431 1 77777 2 01432  
 01432 1 77777 1 01433 B1  
 01433 3 77771 2 01427 B2  
 01434 0 50000 1 01454  
 01435 0 60100 0 01647  
 01436 0 50000 1 01455  
 01437 0 60100 0 01650  
 01440 0 50000 1 01456  
 01441 0 60100 0 01655  
 01442 0 50000 1 01457  
 01443 0 60100 0 01656  
 01444 0 50000 1 01460

BCD OF 7 POSSIBLE DRUM READ FAILURES, BUT THE SEARCH

BCD HAS FAILED. THE ERRORS ARE LISTED IN 1471, 1471 PLUS 14, ET

BCD C. PRESS START IF YOU WISH TO

BCD RESTORE MACHINE TO STATE IN WHICH ERROR OCCURRED.

CLA A+1,1  
 STO PR1,2  
 TXI B1,2,-1  
 TXI B2,1,-1  
 TXH B,2,-7  
 CLA A+1,1  
 STO PR2TWO  
 CLA A+2,1  
 STO PR2TWO+1  
 CLA A+3,1  
 STO PR3TWO  
 CLA A+4,1  
 STO PR3TWO+1  
 CLA A+5,1

01445	0 60100 0 01673	STO PR4
01446	0 50000 1 01461	CLA A+6,1
01447	0 60100 0 01700	STO PR5
01450	0 07400 4 00740	TSX PRINT,4
01451	0 01725 0 01615	HTR PR,0,PR+72
01452	0 02000 0 00221	TRA DIGRTN
01453	+000341000000	OCT 000341000000 IN SECTION IV - PART 3
01454	452760265125	BCD 7NG FRET TABLE FROM DRUM 2.
01455	636063212243	
01456	256026514644	
01457	602451644460	
01460	023360606060	
01461	606060606060	
01462	606060606060	
01463	633146456003	A2TWO BCD 2TION 300.
01464	000033606060	
01465	603145600500	A3TWO BCD 2 IN 50.
01466	336060606060	
01467	600506336060	A4 BCD 1 56.
01470	050533606060	A5 BCD 155.
01471	+003143000000	OCT 003143000000 IN SECTION IV - PART 2
01472	452760633126	BCD 7NG TIFRD TABLE FROM DRUM 1.
01473	512460632122	
01474	432560265146	
01475	446024516444	
01476	600133606060	
01477	606060606060	
01500	606060606060	
01501	633146456003	BCD 2TION 3066.
01502	000606336060	
01503	603145600401	BCD 2 IN 41.
01504	336060606060	
01505	600102013360	BCD 1 121.
01506	010207336060	BCD 1127.
01507	+000263000000	OCT 000263000000 IN SECTION IV - PART 3
01510	452760635121	BCD 7NG TRA TABLE FROM DRUM 1.
01511	606321224325	
01512	602651464460	
01513	245164446001	
01514	336060606060	
01515	606060606060	
01516	606060606060	
01517	633146456002	BCD 2TION 230.
01520	030033606060	
01521	607125514633	BCD 2 ZERO.
01522	606060606060	
01523	600506336060	BCD 1 56.
01524	050533606060	BCD 155.
01525	+000256000000	OCT 000256000000 IN SECTION IV - PART 6
01526	452760222243	BCD 7NG BBLIST TABLE FROM DRUM 3.
01527	316263606321	
01530	224325602651	
01531	464460245164	
01532	446003336060	

01533 606060606060  
01534 606060606060  
01535 633146456002  
01536 030433606060  
01537 603145600603  
01540 336060606060  
01541 600700336060  
01542 060733606060  
01543 +000160000000  
01544 452760622563  
01545 606321224325  
01546 602651464460  
01547 245164446003  
01550 336060606060  
01551 606060606060  
01552 606060606060  
01553 633146456001  
01554 030733606060  
01555 603145600407  
01556 336060606060  
01557 600506336060  
01560 050533606060  
01561 +000103000000  
01562 452760622563  
01563 606321224325  
01564 602651464460  
01565 245164446003  
01566 336060606060  
01567 606060606060  
01570 606060606060  
01571 633146456006  
01572 023360606060  
01573 603145600407  
01574 336060606060  
01575 600506336060  
01576 050533606060  
01577 +000064000000  
01600 452760244643  
01601 316263606321  
01602 224325602651  
01603 464460245164  
01604 446001336060  
01605 606060606060  
01606 606060606060  
01607 633146456004  
01610 023360606060  
01611 603145600306  
01612 336060606060  
01613 600307336060  
01614 040033606060  
01615 606060606060  
01616 606060606060  
01617 233025234260  
01620 626444602551

BCD 2TION 234.

BCD 2 IN 63.

BCD 1 70.

BCD 167.

OCT 000160000000 IN SECTION IV - PART 3

BCD 7NG SET TABLE FROM DRUM 3.

BCD 2TION 137.

BCD 2 IN 47.

BCD 1 56.

BCD 155.

OCT 000103000000 IN SECTION IV - PART 3

BCD 7NG SET TABLE FROM DRUM 3.

BCD 2TION 62.

BCD 2 IN 47.

BCD 1 56.

BCD 155.

OCT 000064000000 IN SECTION IV - PART 5

BCD 7NG DOLIST TABLE FROM DRUM 1.

BCD 2TION 42.

BCD 2 IN 36.

BCD 1 37.

BCD 140.

BCD 2

BCD 4CHECK SUM ERROR IN READI

PR

01621 514651603145  
01622 605125212431  
01623 452760265125  
01624 636063212243  
01625 256026514644  
01626 602451644460  
01627 023360606060  
01630 606060606060  
01631 606060606060  
01632 606060606060  
01633 606060606060  
01634 606060606060  
01635 606060606060  
01636 606060606060  
01637 606060606060  
01640 606060606060  
01641 606060606060  
01642 606060606060  
01643 234647706043  
01644 464647602225  
01645 273145626021  
01646 636043462321  
01647 633146456003  
01650 336060606060  
01651 626321516331  
01652 452760245164  
01653 446021242451  
01654 256262603162  
01655 603145600500  
01656 336060606060  
01657 606060606060  
01660 606060606060  
01661 606060606060  
01662 606060606060  
01663 606060606060  
01664 606060606060  
01665 606060606060  
01666 606060606060  
01667 234644476463  
01670 252460233025  
01671 234260626444  
01672 603162603145  
01673 600506336060  
01674 606060245164  
01675 446023302523  
01676 426062644460  
01677 316260314560  
01700 050533606060  
01701 606060606060  
01702 606060606060  
01703 606060606060  
01704 606060606060  
01705 606060606060  
01706 606060606060

PR1 BCD 7NG FRET TABLE FROM DRUM 2.

BCD 9

BCD 4COPY LOOP BEGINS AT LOCA

PR2TWO BCD 2TION 3.

BCD 4STARTING DRUM ADDRESS IS

PR3TWO BCD IN 50.

BCD 4COMPUTED CHECK SUM IS IN

PR4 BCD 1 56.  
BCD 4 DRUM CHECK SUM IS IN

PR5 BCD 55.



LL

01707 606060606060  
01710 606060606060  
01711 606060606060  
01712 606060606060  
01713 263165256021  
01714 636325444763  
01715 626030216525  
01716 602225254560  
01717 442124256063  
01720 466051252124  
01721 606330316260  
01722 632122432560  
01723 234651512523  
01724 634370336060  
01725 0 00000 0 00000 X  
00000

A

BCD 1

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS TABLE CORRECTLY.

END



01364 214524603163  
 01365 626023302523  
 01366 426062644460  
 01367 314560633025  
 01370 606321646063  
 01371 212243256046  
 01372 456024516444  
 01373 600433606060  
 01374 606060606060  
 01375 606060606060  
 01376 606060606060  
 01377 606060606060  
 01400 606060606060  
 01401 633025602451  
 01402 644460212424  
 01403 512562626046  
 01404 266063302560  
 01405 254563517060  
 01406 606060316260  
 01407 336060263160  
 01410 652560216363  
 01411 254447636260  
 01412 302165256022  
 01413 252545604421  
 01414 242560634660  
 01415 512521246060  
 01416 606060606060  
 01417 606060606060  
 01420 606060606060  
 01421 606060606060  
 01422 606060606060  
 01423 606060606060  
 01424 606060606060  
 01425 633025602545  
 01426 635170602346  
 01427 515125236343  
 01430 706026514644  
 01431 606330316260  
 01432 472151633123  
 01433 644321516021  
 01434 242451256262  
 01435 336060606060  
 01436 606060606060  
 01437 606060606060  
 01440 606060606060  
 01441 606060606060  
 01442 606060606060  
 01443 606060606060  
 01444 606060606060  
 01445 606060606060  
 01446 606060606060  
 01447 606060606060  
 01450 606060606060  
 01451 606060606060

BCD 5

BCD 5 THE DRUM ADDRESS OF THE ENTRY

PR2  
PR3

BCD 1 IS  
BCD 1. FI  
BCD VE ATTEMPTS HAVE BEEN MADE TO READ

BCD 3

BCD THE ENTRY CORRECTLY FROM THIS PARTICULAR ADDRESS.

BCD

BCD

01452 606060606060  
01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 606060606060  
01462 606060606060  
01463 606060606060  
01464 606060606060  
01465 606060606060  
01466 606060606060  
01467 606060606060  
01470 606060606060  
01471 606060606060  
01472 606060606060  
01473 606060606060  
01474 606060606060  
01475 314560465124  
01476 255160634660  
01477 232143436031  
01500 456063303162  
01501 602431212745  
01502 466263312360  
01503 663163304664  
01504 636024316263  
01505 645122314527  
01506 602346512562  
01507 736002000410  
01510 606646512462  
01511 604626604425  
01512 444651706060  
01513 606060606060  
01514 606060606060  
01515 606060606060  
01516 606060606060  
01517 606060606060  
01520 606060606060  
01521 302165256022  
01522 252545605125  
01523 212460464563  
01524 466024516444  
01525 600473602425  
01526 626351467031  
01527 452760633025  
01530 606321646063  
01531 212243256025  
01532 456351312562  
01533 602145246063  
01534 302531516023  
01535 302523426062  
01536 644462336060  
01537 606060606060

BCD

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE TAU TABLE ENTRIES

BCD AND THEIR CHECK SUMS.

LL

01540 606060606060  
01541 606060606060  
01542 606060606060  
01543 606060606060  
01544 606060606060  
01545 442544465170  
01546 606631434360  
01547 222560512562  
01550 634651252473  
01551 602264636063  
01552 302551256031  
01553 626045466066  
01554 217060634660  
01555 234645263151  
01556 446063302560  
01557 233025234260  
01560 626444602551  
01561 514651604645  
01562 606330256024  
01563 516444336060  
01564 606060606060  
01565 606060606060  
01566 606060606060  
01567 606060606060  
01570 606060606060  
01571 0 00000 0 00000 X

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

BCD CHECK SUM ERROR ON THE DRUM.

A

00000

END

1					FORCE NEW RECORD	
1		ORG 50		00062	ORG 50	FORCE NEW RECORD
	00062	0 01303	0	01564	HTR X-1,0,LOCREC	CARD FOR DE
				01303	ORG LOCREC	
TD	01303	3 00000	0	00062	TXH 50	7751 FT 36
				06626	TAG SYN86626	
				07773	SUBORG SYN87773	THIS IS SUBORG + 3
	01304	0 07400	4	00740	TSX PRINT,4	
	01305	0 01244	0	01237	HTR MACHIN,0,MACHIN+5	
	01306	0 50000	0	06626	CLA TAG	SAME INSTRUCTIONS AS 7710 THRO 7723
	01307	0 76500	0	00011	LRs 9	IN SECTION II - BLOCK 3 - INIT.
	01310	0 73400	6	00000	PAX 0,6	
T	01311	-0 75400	0	00000	PXD	AT END OF TIX, ADDRESS OF AC HAS
	01312	0 76300	0	00011	LLS 9	DRUM ADDRESS OF FIRST WORD OF ENTRY
	01313	0 60100	0	01345	STO SUBES1	
	01314	0 76700	0	00001	ALS 1	AND IR 2 HAS 1 - 2 WORDS + SUM
	01315	0 60100	0	01346	STO SUBES2	2 - 4 WORDS + SUM
	01316	0 50000	4	07773	CLA SUBORG,4	3 - 6 WORDS + SUM
	01317	0 40000	0	01345	ADD SUBES1	
	01320	0 40000	0	01346	ADD SUBES2	
	01321	2 00001	4	01320	TIX SUB030,4,1	
	01322	0 07400	4	00730	TSX OCTBCD,4	
	01323	0 60200	0	01257	SLW ERAS	
	01324	0 56000	0	01257	LDQ ERAS	
	01325	-0 76300	0	00014	LGL 12	SHIFT OUT FIRST 2 BLANKS
	01326	-0 50000	0	01402	CAL PR2	
	01327	-0 76300	0	00022	LGL 18	
	01330	0 60200	0	01402	SLW PR2	
	01331	-0 76300	0	00006	LGL 6	
	01332	0 56000	0	01403	LDQ PR3	
	01333	-0 76300	0	00036	LGL 30	
	01334	0 60200	0	01403	SLW PR3	
	01335	0 50000	2	01345	CLA A+1,2	
	01336	0 60100	0	01355	STO PR1	
	01337	0 07400	4	00740	TSX PRINT,4	
	01340	0 01565	0	01347	HTR PR,0,PR+142	
	01341	0 02000	0	00221	TRA DIGRTN	
	01342	452760216006			BCD ING A 6	
	01343	452760216004			BCD ING A 4	
	01344	452760216002			BCD ING A 2	
	01345	0 00000	0	00000	A SUBES1	
	01346	0 00000	0	00000	SUBES2	
	01347	606060606060			PR BCD 2	
	01350	606060606060				
	01351	233025234260			BCD 4CHECK SUM ERROR IN READI	
	01352	626444602551				
	01353	514651603145				
	01354	605125212431				
	01355	452760216002			PR1 BCD ING A 2	
	01356	606646512460			BCD WORD ENTRY AND ITS CHECK SUM IN THE TAU TABLE ON DRUM 4.	
	01357	254563517060				
	01360	214524603163				
	01361	626023302523				
	01362	426062644460				

01363 314560633025  
 01364 606321646063  
 01365 212243256046  
 01366 456024516444  
 01367 600433606060  
 01370 606060606060  
 01371 606060606060  
 01372 606060606060  
 01373 606060606060  
 01374 606060606060  
 01375 633025602451  
 01376 644460212424  
 01377 512562626046  
 01400 266063302560  
 01401 254563517060  
 01402 606060316260  
 01403 336060263160  
 01404 652560216363  
 01405 254447636260  
 01406 302165256022  
 01407 252545604421  
 01410 242560634660  
 01411 512521246060  
 01412 606060606060  
 01413 606060606060  
 01414 606060606060  
 01415 606060606060  
 01416 606060606060  
 01417 606060606060  
 01420 606060606060  
 01421 633025602545  
 01422 635170602346  
 01423 515125236343  
 01424 706026514644  
 01425 606330316260  
 01426 472151633123  
 01427 644321516021  
 01430 242451256262  
 01431 336060606060  
 01432 606060606060  
 01433 606060606060  
 01434 606060606060  
 01435 606060606060  
 01436 606060606060  
 01437 606060606060  
 01440 606060606060  
 01441 606060606060  
 01442 606060606060  
 01443 606060606060  
 01444 606060606060  
 01445 606060606060  
 01446 606060606060  
 01447 606060606060  
 01450 606060606060

BCD 5

BCD 5 THE DRUM ADDRESS OF THE ENTRY

PR2  
PR3

BCD 1 IS  
BCD 1. FI  
BCD VE ATTEMPTS HAVE BEEN MADE TO READ

BCD 3

BCD THE ENTRY CORRECTLY FROM THIS PARTICULAR ADDRESS.

BCD

BCD

01451 606060606060  
01452 606060606060  
01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 606060606060  
01462 606060606060  
01463 606060606060  
01464 606060606060  
01465 606060606060  
01466 606060606060  
01467 606060606060  
01470 606060606060  
01471 314560465124  
01472 255160634660  
01473 232143436031  
01474 456063303162  
01475 602431212745  
01476 466263312360  
01477 663163304664  
01500 636024316263  
01501 645122314527  
01502 602346512562  
01503 736002000410  
01504 606646512462  
01505 604626604425  
01506 444651706060  
01507 606060606060  
01510 606060606060  
01511 606060606060  
01512 606060606060  
01513 606060606060  
01514 606060606060  
01515 302165256022  
01516 252545605125  
01517 212460464563  
01520 466024516444  
01521 600473602425  
01522 626351467031  
01523 452760633025  
01524 606321646063  
01525 212243256025  
01526 456351312562  
01527 602145246063  
01530 302531516023  
01531 302523426062  
01532 644462336060  
01533 606060606060  
01534 606060606060  
01535 606060606060  
01536 606060606060

BCD

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE TAU TABLE ENTRIES

BCD AND THEIR CHECK SUMS.



01537 606060606060  
 01540 606060606060  
 01541 442544465170  
 01542 606631434360  
 01543 222560512562  
 01544 634651252473  
 01545 602264636063  
 01546 302551256031  
 01547 626045466066  
 01550 217060634660  
 01551 234645263151  
 01552 446063302560  
 01553 233025234260  
 01554 626444602551  
 01555 514651604645  
 01556 606330256024  
 01557 516444336060  
 01560 606060606060  
 01561 606060606060  
 01562 606060606060  
 01563 606060606060  
 01564 606060606060  
 01565 0 00000 0 00000 X  
 00000

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

BCD CHECK SUM ERROR ON THE DRUM.

A

END

1  
1

ORG 51

FORCE NEW RECORD

TD

T

00063	0	01303	0	01604	00063	
				01303		
01303	3	00000	0	00063		
01304	0	07400	4	00740		
01305	0	01244	0	01237		
01306	0	76200	0	00304		
01307	0	46000	0	01357		
01310	0	70000	0	01356		
01311	0	50000	0	01356		
01312	0	76500	0	00011		
01313	0	73400	6	00000		
01314	-0	75400	0	00000		
01315	.0	76300	0	00011		
01316	0	60100	0	01360		
01317	0	76700	0	00001		
01320	0	60100	0	01361		
01321	-0	75400	4	00000		
01322	0	77100	0	00022		
01323	0	60100	0	01257		
01324	0	50000	0	01363		
01325	0	40200	0	01257		
01326	0	62100	0	01257		
01327	0	76200	0	00304		
01330	0	46000	0	01257		
01331	0	70000	0	01362		
01332	0	50000	0	01362		
01333	0	40000	0	01360		
01334	0	40000	0	01361	SUB030	
01335	2	00001	4	01334		
01336	0	07400	4	00730		
01337	0	60200	0	01257		
01340	0	56000	0	01257		
01341	-0	76300	0	00014		
01342	-0	50000	0	01422		
01343	-0	76300	0	00022		
01344	0	60200	0	01422		
01345	-0	76300	0	00006		
01346	0	56000	0	01423		
01347	-0	76300	0	00036		
01350	0	60200	0	01423		
01351	0	50000	2	01367		
01352	0	60100	0	01375		
01353	0	07400	4	00740		
01354	0	01605	0	01367		
01355	0	02000	0	00221		
01356	0	00000	0	00000	SUBTAG	
01357	+00000000	01237			ADSBTG	OCT 000000001237
01360	0	00000	0	00000	SUBES1	
01361	0	00000	0	00000	SUBES2	
01362	0	00000	0	00000	SUBORG	
01363	+00000000	01235			ADSBRG	OCT 000000001235
01364	45276021	6006			BCD ING A 6	

FORCE NEW RECORD  
CARD FOR DE

1231 FT 45

MOSTLY SAME INSTRUCTIONS AS 1153 THRU  
1166 IN SECTION II, BLOCK 4

MODIFY ADDRESS TO BE SAME  
AS SUBORG+3,4

ATEND OF TIX, AC ADDRESS IS  
ADDRESS OF ENTRY ON DRUM AND  
IR2 CONTAINS 1 - 2 WORDS + CHECK SUM,  
2 - 4 WORDS + SUM, OR 3 - 6 WORDS + SUM

SHIFT OUT FIRST 2 BLANKS

113

01365 452760216004  
 01366 452760216002  
 01367 606060606060  
 01370 606060606060  
 01371 233025234260  
 01372 626444602551  
 01373 514651603145  
 01374 605125212431  
 01375 452760216002  
 01376 606646512460  
 01377 254563517060  
 01400 214524603163  
 01401 626023302523  
 01402 426062644460  
 01403 314560633025  
 01404 606321646063  
 01405 212243256046  
 01406 456024516444  
 01407 600433606060  
 01410 606060606060  
 01411 606060606060  
 01412 606060606060  
 01413 606060606060  
 01414 606060606060  
 01415 633025602451  
 01416 644460212424  
 01417 512562626046  
 01420 266063302560  
 01421 254563517060  
 01422 606060316260  
 01423 336060263160  
 01424 652560216363  
 01425 254447636260  
 01426 302165256022  
 01427 252545604421  
 01430 242560634660  
 01431 512521246060  
 01432 606060606060  
 01433 606060606060  
 01434 606060606060  
 01435 606060606060  
 01436 606060606060  
 01437 606060606060  
 01440 606060606060  
 01441 633025602545  
 01442 635170602346  
 01443 515125236343  
 01444 706026514644  
 01445 606330316260  
 01446 472151633123  
 01447 644321516021  
 01450 242451256262  
 01451 336060606060  
 01452 606060606060

A  
 PR BCD 1NG A 4  
 BCD 1NG A 2  
 BCD 2  
  
 BCD 4CHECK SUM ERROR IN READI  
  
 PR1 BCD 1NG A 2  
 BCD WORD ENTRY AND ITS CHECK SUM IN THE TAU TABLE ON DRUM 4.  
  
 BCD 5  
  
 BCD 5THE DRUM ADDRESS OF THE ENTRY  
  
 PR2 BCD 1 IS  
 PR3 BCD 1. FI  
 BCD VE ATTEMPTS HAVE BEEN MADE TO READ  
  
 BCD 3  
  
 BCD THE ENTRY CORRECTLY FROM THIS PARTICULAR ADDRESS.

01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 606060606060  
01462 606060606060  
01463 606060606060  
01464 606060606060  
01465 606060606060  
01466 606060606060  
01467 606060606060  
01470 606060606060  
01471 606060606060  
01472 606060606060  
01473 606060606060  
01474 606060606060  
01475 606060606060  
01476 606060606060  
01477 606060606060  
01500 606060606060  
01501 606060606060  
01502 606060606060  
01503 606060606060  
01504 606060606060  
01505 606060606060  
01506 606060606060  
01507 606060606060  
01510 606060606060  
01511 314560465124  
01512 255160634660  
01513 232143436031  
01514 456063303162  
01515 602431212745  
01516 466263312360  
01517 663163304664  
01520 636024316263  
01521 645122314527  
01522 602346512562  
01523 736002000410  
01524 606646512462  
01525 604626604425  
01526 444651706060  
01527 606060606060  
01530 606060606060  
01531 606060606060  
01532 606060606060  
01533 606060606060  
01534 606060606060  
01535 302165256022  
01536 252545605125  
01537 212460464563  
01540 466024516444

BCD

BCD

BCD

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE TAU TABLE ENTRIES



1  
1

ORG 52

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00064 0 01303 0 00064  
01303 3 00000 0 00064  
01304 0 07400 4 00740  
01305 0 01244 0 01237

04331 SUBTAG SYN 2265  
04327 SUBORG SYN 2263

4307 FT 51

4331 OCTAL  
4327 OCTAL - THIS IS SUBORG + 3  
SAME AS INSTRUCTIONS 4246 THRO  
4261 IN SECTION II

T

01306 0 50000 0 04331  
01307 0 76500 0 00011  
01310 0 73400 6 00000  
01311 -0 75400 0 00000  
01312 0 76300 0 00011  
01313 0 60100 0 01342  
01314 0 76700 0 00001  
01315 0 60100 0 01343  
01316 0 50000 4 04327  
01317 0 40000 0 01342  
01320 0 40000 0 01343  
01321 2 00001 4 01320  
01322 0 07400 4 00730  
01323 0 60200 0 01257  
01324 0 56000 0 01257  
01325 -0 76300 0 00014  
01326 -0 50000 0 01402  
01327 -0 76300 0 00022  
01330 0 60200 0 01402  
01331 -0 76300 0 00006  
01332 0 56000 0 01403  
01333 -0 76300 0 00036  
01334 0 60200 0 01403  
01335 0 50000 2 01347  
01336 0 60100 0 01355  
01337 0 07400 4 00740  
01340 0 01565 0 01347  
01341 0 02000 0 00221

CLA SUBTAG  
LRS 9  
PAX 0\*6  
PXD  
LLS 9  
STO SUBES1  
ALS 1  
STO SUBES2  
CLA SUBORG,4  
ADD SUBES1  
SUB030 ADD SUBES2  
TIX SUB030,4,1  
TSX OCTBCD,4  
SLW ERAS  
LDQ ERAS  
LGL 12  
CAL PR2  
LGL 18  
SLW PR2  
LGL 6  
LDQ PR3  
LGL 30  
SLW PR3  
CLA A+1,2  
STO PR1  
TSX PRINT,4  
HTR PR,0,PR+142  
TRA DIGRTN

AT END OF TIX, AC ADDRESS HAS  
DRUM ADDRESS OF ENTRY AND  
IR 2 EQUALS 1 FOR 2 WORD + CHECKSUM  
2 FOR 4 WORD + SUM  
3 FOR 6 WORD + SUM

SHIFT OUT FIRST 2 BLANKS

01342 0 00000 0 00000  
01343 0 00000 0 00000  
01344 452760216006  
01345 452760216004  
01346 452760216002  
01347 606060606060  
01350 606060606060  
01351 233025234260  
01352 626444602551  
01353 514651603145  
01354 605125212431  
01355 452760216002  
01356 606646512460  
01357 254563517060  
01360 214524603163  
01361 626023302523  
01362 426062644460

SUBES1  
SUBES2

A  
PR BCD ING A 6  
BCD ING A 4  
BCD ING A 2  
BCD 2

BCD 4CHECK SUM ERROR IN READI

PR1 BCD ING A 2  
BCD WORD ENTRY AND ITS CHECK SUM IN THE TAU TABLE ON DRUM 4.

01363 314560633025  
01364 606321646063  
01365 212243256046  
01366 456024516444  
01367 600433606060  
01370 606060606060  
01371 606060606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 633025602451  
01376 644460212424  
01377 512562626046  
01400 266063302560  
01401 254563517060  
01402 606060316260  
01403 336060263160  
01404 652560216363  
01405 254447636260  
01406 302165256022  
01407 252545604421  
01410 242560634660  
01411 512521246060  
01412 606060606060  
01413 606060606060  
01414 606060606060  
01415 606060606060  
01416 606060606060  
01417 606060606060  
01420 606060606060  
01421 633025602545  
01422 635170602346  
01423 515125236343  
01424 706026514644  
01425 606330316260  
01426 472151633123  
01427 644321516021  
01430 242451256262  
01431 336060606060  
01432 606060606060  
01433 606060606060  
01434 606060606060  
01435 606060606060  
01436 606060606060  
01437 606060606060  
01440 606060606060  
01441 606060606060  
01442 606060606060  
01443 606060606060  
01444 606060606060  
01445 606060606060  
01446 606060606060  
01447 606060606060  
01450 606060606060

BCD 5

BCD 5 THE DRUM ADDRESS OF THE ENTRY

PR2  
PR3

BCD 1 IS  
BCD 1 FI  
BCD VE ATTEMPTS HAVE BEEN MADE TO READ.

BCD 3

- BCD THE ENTRY CORRECTLY FROM THIS PARTICULAR ADDRESS.

BCD

BCD

01451 606060606060  
01452 606060606060  
01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 606060606060  
01462 606060606060  
01463 606060606060  
01464 606060606060  
01465 606060606060  
01466 606060606060  
01467 606060606060  
01470 606060606060  
01471 314560465124  
01472 255160634660  
01473 232143436031  
01474 456063303162  
01475 602431212745  
01476 466263312360  
01477 663163304664  
01500 636024316263  
01501 645122314527  
01502 602346512562  
01503 736002000410  
01504 606646512462  
01505 604626604425  
01506 444651706060  
01507 606060606060  
01510 606060606060  
01511 606060606060  
01512 606060606060  
01513 606060606060  
01514 606060606060  
01515 302165256022  
01516 252545605125  
01517 212460464563  
01520 466024516444  
01521 600473602425  
01522 626351467031  
01523 452760633025  
01524 606321646063  
01525 212243256025  
01526 456351312562  
01527 602145246063  
01530 302531516023  
01531 302523426062  
01532 644462336060  
01533 606060606060  
01534 606060606060  
01535 606060606060  
01536 606060606060

BCD

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE TAU TABLE ENTRIES

BCD AND THEIR CHECK SUMS.



01537 606060606060  
01540 606060606060  
01541 442544465170  
01542 606631434360  
01543 222560512562  
01544 634651252473  
01545 602264636063  
01546 302551256031  
01547 626045466066  
01550 217060634660  
01551 234645263151  
01552 446063302560  
01553 233025234260  
01554 626444602551  
01555 514651604645  
01556 606330256024  
01557 516444336060  
01560 606060606060  
01561 606060606060  
01562 606060606060  
01563 606060606060  
01564 606060606060  
01565 0 00000 0 00000 X  
00000

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

BCD CHECK SUM ERROR ON THE DRUM.

END

A

1  
1

ORG 53  
 00065 0 01303 0 02746  
 01303 3 00000 0 00065  
 01304 0 76200 0 00304  
 01305 0 46000 0 02136  
 01306 0 70000 0 02136  
 01307 0 50000 0 02136  
 01310 0 62100 0 01311  
 01311 0 50000 0 00000  
 01312 0 60100 0 02137  
 01313 0 76200 0 00304  
 01314 0 46000 0 02140  
 01315 0 70000 0 02140  
 01316 0 76200 0 00304  
 01317 0 46000 0 02141  
 01320 0 70000 0 02141  
 01321 -0 76000 0 00141  
 01322 0 76100 0 00000  
 01323 0 50000 0 01234  
 01324 0 40200 0 02142  
 01325 -0 10000 0 01327  
 01326 0 76000 0 00141  
 01327 -0 53400 2 00000  
 01330 -0 75400 2 00000  
 01331 0 40200 0 01234  
 01332 -0 32000 0 01230  
 01333 0 53400 2 02135  
 01334 0 34000 2 02135  
 01335 0 02000 0 01337  
 01336 0 02000 0 01655  
 01337 2 00005 2 01334  
 01340 0 07400 4 00740  
 01341 0 01655 0 01343  
 01342 0 00000 0 00221  
 01343 606060606060  
 01344 606060606060  
 01345 434623216331  
 01346 464560462660  
 01347 255151465173  
 01350 606630312330  
 01351 603021626022  
 01352 252545604751  
 01353 314563252473  
 01354 603021626023  
 01355 216462252460  
 01356 243121274546  
 01357 626331236051  
 01360 252346512460  
 01361 456444222551  
 01362 600503606060  
 01363 606060606060  
 01364 606060606060

FORCE NEW RECORD  
 ORG 53  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 53  
 RDR 4  
 LDA D273  
 CPY D273  
 CLA D273  
 STA GETSUM  
 GETSUM CLA  
 STO DRMSUM  
 RDR 4  
 LDA D307  
 CPY D307  
 RDR 4  
 LDA D313  
 CPY D313  
 SLT8141  
 NOP  
 CLA PREFX1  
 SUB MEM4K  
 TNZ LX  
 PSE8141  
 LXD 0,2  
 PXD 0,2  
 SUB PREFX1  
 ANA DECMSK  
 LXA TAB,2  
 CAS TAB,2  
 TRA TIXT  
 TRA HAVE  
 TIXT TIX CAS,2,5  
 TSX PRINT,4  
 HTR ER,0,ER+202  
 HTR DIGRTN  
 BCD 2

BCD LOCATION OF ERROR, WHICH HAS BEEN PRINTED, HAS CAUSED DIAGNO

BCD STIC RECORD NUMBER 53

FORCE NEW RECORD  
 CARD FOR DE  
 150 FT 75  
 THIS IS THA ACL WITH ADDRESS OF  
 DRUM CHECK SUM IN CORES

HAVE ACTUAL DRUM CHECK SUM  
 HAVE COMPUTED CHECK SUM FROM  
 PERMANENT LOCATION  
 HAVE DRUM SELECT AND  
 INITIAL DRUM ADDRESS  
 TURN OFF SENSE LIGHT 1

TURN ON SENSE LIGHT 1, MEMORY IS 4K  
IR2 WAS SAVED IN DEC LOC ZERO

CANNOT IDENTIFY TABLE VERRRY BAD

01365 606060606060  
01366 606060606060  
01367 606060606060  
01370 606060606060  
01371 634660222560  
01372 512521246031  
01373 453360606330  
01374 316260512523  
01375 465124602346  
01376 444721512562  
01377 606330256002  
01400 626023464447  
01401 433144254563  
01402 604626603145  
01403 242567605125  
01404 273162632551  
01405 600260634660  
01406 216043316263  
01407 604626600460  
01410 632122432560  
01411 626346476273  
01412 606060606060  
01413 606060606060  
01414 606060606060  
01415 226463604546  
01416 604421632330  
01417 603021626022  
01420 252545602646  
01421 644524336060  
01422 606060606060  
01423 606060606060  
01424 606060606060  
01425 606060606060  
01426 606060606060  
01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 606060606060  
01434 606060606060  
01435 606060606060  
01436 606060606060  
01437 606060606060  
01440 606060606060  
01441 633025602346  
01442 456325456362  
01443 604626603151  
01444 600260662551  
01445 256062216525  
01446 246031456063  
01447 302560242523  
01450 512544254563  
01451 604626604346  
01452 232163314645

BCD TO BE READ IN. THIS RECORD COMPARES THE 2S COMPLIMENT OF IN

BCD DEX REGISTER 2 TO A LIST OF 4 TABLE STOPS.

BCD BUT NO MATCH HAS BEEN FOUND.

BCD

BCD THE CONTENTS OF IR 2 WERE SAVED IN THE DECREMENT OF LOCATION

01453 607125514633  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 606060606060  
01462 606060606060  
01463 606060606060  
01464 606060606060  
01465 633031626024  
01466 252351254425  
01467 456360623046  
01470 644324602550  
01471 642143603333  
01472 333360606060  
01473 606060606060  
01474 606060606060  
01475 606060606060  
01476 606060606060  
01477 606060606060  
01500 606060606060  
01501 606060606060  
01502 606060606060  
01503 606060606060  
01504 606060606060  
01505 606060606060  
01506 606060606060  
01507 606060606060  
01510 606060606060  
01511 606060606060  
01512 606060606060  
01513 606060606007  
01514 070704046060  
01515 606263212760  
01516 632122432560  
01517 606060606060  
01520 606060606060  
01521 606060606060  
01522 606060606060  
01523 606060606060  
01524 606060606060  
01525 606060606060  
01526 606060606060  
01527 606060606060  
01530 606060606060  
01531 606060606060  
01532 606060606060  
01533 606060606060  
01534 606060606060  
01535 606060606060  
01536 606060606060  
01537 606060606007  
01540 070703036060

BCD ZERO.

BCD THIS DECREMENT SHOULD EQUAL ....

BCD

BCD 77744 STAG TABLE

BCD

BCD 77733 SUCC TABLE

01541 606264232360  
 01542 632122432560  
 01543 606060606060  
 01544 606060606060  
 01545 606060606060  
 01546 606060606060  
 01547 606060606060  
 01550 606060606060  
 01551 606060606060  
 01552 606060606060  
 01553 606060606060  
 01554 606060606060  
 01555 606060606060  
 01556 606060606060  
 01557 606060606060  
 01560 606060606060  
 01561 606060606060  
 01562 606060606060  
 01563 606060606007  
 01564 070702016060  
 01565 604751252460  
 01566 632122432560  
 01567 606060606060  
 01570 606060606060  
 01571 606060606060  
 01572 606060606060  
 01573 606060606060  
 01574 606060606060  
 01575 606060606060  
 01576 606060606060  
 01577 606060606060  
 01600 606060606060  
 01601 606060606060  
 01602 606060606060  
 01603 606060606060  
 01604 606060606060  
 01605 606060606060  
 01606 606060606060  
 01607 606060606007  
 01610 070700076060  
 01611 602222226063  
 01612 212243256060  
 01613 606060606060  
 01614 606060606060  
 01615 606060606060  
 01616 606060606060  
 01617 606060606060  
 01620 606060606060  
 01621 606060606060  
 01622 606060606060  
 01623 606060606060  
 01624 606060606060  
 01625 606060606060  
 01626 606060606060

BCD

BCD

77721 PRED TABLE

BCD

BCD

77707 BBB TABLE

BCD

01627 606060606060  
 01630 606060606060  
 01631 512562626062  
 01632 632151636031  
 01633 266070466460  
 01634 663162306063  
 01635 466051256263  
 01636 465125604421  
 01637 233031452560  
 01640 634660234645  
 01641 243163314645  
 01642 603145606630  
 01643 312330602551  
 01644 514651604623  
 01645 236451512524  
 01646 336060606060  
 01647 606060606060  
 01650 606060606060  
 01651 606060606060  
 01652 606060606060  
 01653 606060606060  
 01654 606060606060  
 01655 0 50000 2 02136 HAVE  
 01656 0 60100 0 02162  
 01657 0 50000 2 02141  
 01660 0 60100 0 02101  
 01661 0 76000 0 00141  
 01662 0 02000 0 01664  
 01663 2 00001 2 01664  
 01664 0 50000 2 02137 MEM8K  
 01665 0 60100 0 02143  
 01666 0 50000 0 02136  
 01667 -0 32000 0 01227  
 01670 0 40200 0 02143  
 01671 0 60100 0 02144  
 01672 0 07400 4 00730  
 01673 0 60200 0 01257  
 01674 0 56000 0 01257  
 01675 -0 76300 0 00014  
 01676 -0 50000 0 02327  
 01677 -0 76300 0 00022  
 01700 0 60200 0 02327  
 01701 -0 76300 0 00006  
 01702 0 56000 0 02330  
 01703 -0 76300 0 00036  
 01704 0 60200 0 02330  
 01705 0 50000 0 02143  
 01706 0 07400 4 00730  
 01707 0 60200 0 01257  
 01710 0 56000 0 01257  
 01711 -0 50000 0 02221  
 01712 -0 76300 0 00022  
 01713 0 60200 0 02221  
 01714 -0 76300 0 00022

BCD PRESS START IF YOU WISH TO RESTORE MACHINE TO CONDITION IN WH

BCD ICH ERROR OCCURRED.

CLA TAB+1,2  
 STO PR1  
 CLA TAB+4,2  
 STO PRTAB  
 SLN 1  
 TRA MEM8K  
 TIX MEM8K,2,1  
 CLA TAB+2,2  
 STO BUFADR  
 CLA D273  
 ANA ADDMSK  
 SUB BUFADR  
 STO WDC  
 TSX OCTBCD,4  
 SLW ERAS  
 LDQ ERAS  
 LGL 12  
 CAL PR6  
 LGL 18  
 SLW PR6  
 LGL 6  
 LDQ PR7  
 LGL 30  
 SLW PR7  
 CLA BUFADR  
 TSX OCTBCD,4  
 SLW ERAS  
 LDQ ERAS  
 CAL ADMEM  
 LGL 18  
 SLW ADMEM  
 LGL 18

BCD NAME OF TABLE

BCD LINE ABOUT SIZE OF TABLE ENTRIES

THIS IS ADDRESS OF 1ST WORD IN  
 BUFFER FOR WHATEVER K  
 SUBTRACT ADDRESS OF 1ST WORD IN  
 BUFFER FROM ADDRESS OF DRUM CHECK SUM

NOW HAVE ACTUAL WORD COUNT  
 CONVERT TO BCD AND STORE IN COMMENT

CONVERT ADDRESS OF 1ST WORD OF  
 CORE BUFFER AND STORE IN COMMENT

01715	0	56000	0	00717	LDQ	BLANKS
01716	-0	76300	0	00022	LGL	18
01717	0	60200	0	02222	SLW	ADMEM+1
01720	0	50000	0	02141	CLA	D313
01721	0	76700	0	00007	ALS	7
01722	-0	73400	1	00000	PDX	0,1
01723	0	50000	1	02110	CLA	DRM,1
01724	0	60100	0	02171	STO	PR4
01725	0	50000	0	02141	CLA	D313
01726	-0	32000	0	02146	ANA	DRUMSK
01727	0	62100	0	02145	STA	DRMADR
01730	0	40000	0	02144	ADD	WDC
01731	0	76700	0	00007	ALS	7
01732	-0	73400	2	00000	PDX	0,2
01733	-3	00000	2	01743	TXL	ISDR4,2,0
01734	1	00001	1	01735	TXI	SPLIT,1,1
01735	-0	50000	1	02110	CAL	DRM,1
01736	0	56000	0	00717	LDQ	BLANKS
01737	-0	76300	0	00006	LGL	6
01740	0	60200	0	02202	SLW	PR5
01741	0	50000	0	02147	CLA	PRSPLT
01742	0	60100	0	02075	STO	TSX1
01743	-3	00002	1	01746	ISDR4	TXL GETLDA,1,2
01744	0	50000	0	02150	CLA	PRALL
01745	0	60100	0	02103	STO	TSX2
01746	0	50000	0	02145	GETLDA	CLA DRMADR
01747	0	07400	4	00730	TSX	OCTBCD,4
01750	0	60200	0	01257	SLW	ERAS
01751	0	56000	0	01257	LDQ	ERAS
01752	-0	76300	0	00014	LGL	12
01753	-0	50000	0	02167	CAL	PR2
01754	-0	76300	0	00014	LGL	12
01755	0	60200	0	02167	SLW	PR2
01756	-0	76300	0	00014	LGL	12
01757	0	56000	0	02170	LDQ	PR3
01760	-0	76300	0	00030	LGL	24
01761	0	60200	0	02170	SLW	PR3
01762	0	50000	0	02136	CLA	D273
01763	0	07400	4	00730	TSX	OCTBCD,4
01764	0	60200	0	02420	SLW	PR9
01765	0	56000	0	02140	LDQ	D307
01766	-0	76300	0	00017	LGL	15
01767	0	07400	4	00730	TSX	OCTBCD,4
01770	0	60200	0	01257	SLW	ERAS
01771	0	56000	0	01257	LDQ	ERAS
01772	-0	75400	0	00000	PXD	
01773	-0	76300	0	00006	LGL	6
01774	0	60200	0	01260	SLW	ERAS+1
01775	-0	75400	0	00000	PXD	
01776	-0	76300	0	00006	LGL	6
01777	0	76700	0	00006	ALS	6
02000	0	40000	0	01260	ADD	ERAS+1
02001	-0	76300	0	00030	LGL	24
02002	0	60200	0	02376	SLW	PR8

FIND NUMBER OF DRUM

BCD TABLE

ADD WORD COUNT TO ADDRESS OF  
1ST WORD ON DRUM, SPLIT DRUM  
IF BITS CAN BE MOVED INTO DECREMENT

NEXT BCD WORD FROM TABLE INTO  
COMMENT

EXPAND FIRST COMMENT TO SHOW  
SPLIT BUFFER  
IFF BUFFER ON DRUM 4, IT IS CLOBBED  
PRINT SAME

CONVERT ADDRESS OF 1ST WORD ON  
THE DRUM AND STORE IN COMMENT

CONVERT AND STORE ADDRESS IN CORES  
OF DRUM CHECK SUM

CONVERT ALL OF 36 BIT WORD TO PRINT  
COMPUTED CHECK SUM

IE, STORE 00000B

	02003	0	56000	0	02140	LDQ	D307
	02004	-0	76300	0	00017	LGL	15
T	02005	-0	75400	0	00000	PXD	
	02006	-0	76300	0	00014	LGL	12
	02007	0	07400	4	00730	TSX	OCTBCD,4
	02010	0	60200	0	01257	SLW	ERAS
	02011	0	56000	0	01257	LDQ	ERAS
	02012	-0	76300	0	00022	LGL	18
	02013	0	76700	0	00006	ALS	6
	02014	0	40000	0	01260	ADD	ERAS+1
	02015	-0	76300	0	00006	LGL	6
	02016	0	76700	0	00006	ALS	6
	02017	0	40000	0	01260	ADD	ERAS+1
	02020	-0	76300	0	00014	LGL	12
	02021	0	60200	0	02377	SLW	PR8+1
	02022	0	56000	0	02140	LDQ	D307
	02023	-0	76300	0	00033	LGL	27
T	02024	-0	75400	0	00000	PXD	
	02025	-0	76300	0	00011	LGL	9
	02026	0	07400	4	00730	TSX	OCTBCD,4
	02027	0	60200	0	01257	SLW	ERAS
	02030	0	56000	0	01257	LDQ	ERAS
	02031	-0	77300	0	00022	RQL	18
	02032	-0	76300	0	00022	LGL	18
	02033	0	56000	0	00717	LDQ	BLANKS
	02034	-0	76300	0	00022	LGL	18
	02035	0	60200	0	02400	SLW	PR8+2
	02036	0	56000	0	02137	LDQ	DRMSUM
T	02037	-0	75400	0	00000	PXD	
	02040	-0	76300	0	00003	LGL	3
	02041	0	76700	0	00006	ALS	6
	02042	-0	60200	0	02421	ORS	PR10
	02043	-0	76300	0	00017	LGL	15
	02044	0	07400	4	00730	TSX	OCTBCD,4
	02045	0	60200	0	01257	SLW	ERAS
	02046	0	56000	0	01257	LDQ	ERAS
	02047	-0	77300	0	00006	RQL	6
	02050	-0	60000	0	02422	STQ	PR10+1
	02051	0	56000	0	02137	LDQ	DRMSUM
	02052	-0	76300	0	00022	LGL	18
T	02053	-0	75400	0	00000	PXD	
	02054	-0	76300	0	00017	LGL	15
	02055	-0	60000	0	01261	STQ	ERAS+2
	02056	0	07400	4	00730	TSX	OCTBCD,4
	02057	0	60200	0	01257	SLW	ERAS
	02060	0	56000	0	01257	LDQ	ERAS
	02061	-0	76300	0	00014	LGL	12
	02062	0	76700	0	00006	ALS	6
	02063	0	40000	0	01260	ADD	ERAS+1
	02064	-0	76300	0	00030	LGL	24
	02065	0	60200	0	02423	SLW	PR10+2
	02066	0	56000	0	01261	LDQ	ERAS+2
T	02067	-0	75400	0	00000	PXD	
	02070	-0	76300	0	00003	LGL	3

CONVERT AND STORE ALL OF 36 BIT  
DRUM CHECK SUM



```

02071 0 56000 0 00717 LDQ BLANKS
02072 -0 76300 0 00036 LGL 30
02073 0 60200 0 02424 SLW PR10+3
02074 0 07400 4 00740 TSX PRINT,4
02075 0 02177 0 02151 TSX1 HTR PR,0,PR+22
02076 0 07400 4 00740 TSX PRINT,4
02077 0 02223 0 02211 HTR PRCR,0,PRCR+10
02100 0 07400 4 00740 TSX PRINT,4
02101 0 00000 0 00000 PRTAB
02102 0 07400 4 00740 TSX PRINT,4
02103 0 02603 0 02315 TSX2 HTR PRSZ,0,PRSZND
02104 0 02000 0 00221 TRA DIGRTN
02105 245164446004 BCD 1DRUM 4
02106 245164446003 BCD 1DRUM 3
02107 245164446002 BCD 1DRUM 2
02110 245164446001 DRM BCD 1DRUM 1
02111 0 00034 0 00000 STIR HTR80,0,34
02112 606263212760 BCD 1 STAG
02113 0 00000 0 05263 HTR85263
02114 0 00000 0 05061 HTR85061
02115 0 02251 0 02223 HTR PRA,0,PRA+22
02116 0 00045 0 00000 HTR80,0,45
02117 606264232360 BCD 1 SUCC
02120 0 00000 0 16734 HTR816734
02121 0 00000 0 07555 HTR87555
02122 0 02265 0 02251 HTR PRB,0,PRB+12
02123 0 00057 0 00000 HTR80,0,57
02124 604751252460 BCD 1 PRED
02125 0 00000 0 15674 HTR815674
02126 0 00000 0 07337 HTR87337
02127 0 02301 0 02265 HTR PRC,0,PRC+12
02130 0 00071 0 00000 HTR80,0,71
02131 606022222260 BCD 1 BBB
02132 0 00000 0 12533 HTR812533
02133 0 00000 0 06442 HTR86442
02134 0 02315 0 02301 HTR PRD,0,PRD+12
02135 0 00000 0 00024 TAB HTR TAB-STIR
02136 0 00000 0 00273 D273 HTR8273
02137 0 00000 0 00000 DRMSUM
02140 0 00000 0 00307 D307 HTR8307
02141 0 00000 0 00313 D313 HTR8313
02142 +010000000000 MEM4K OCT 010000000000
02143 0 00000 0 00000 BUFADR
02144 0 00000 0 00000 WDC
02145 0 00000 0 00000 DRMADR
02146 0 00000 0 03777 DRUMSK HTR83777
02147 0 02211 0 02151 PRSPLT HTR PR,0,PR+32
02150 0 02747 0 02315 PRALL HTR PRSZ,0,X
02151 606060606060 PR BCD 2
02152 606060606060
02153 233025234260 BCD 7CHECK SUM ERROR IN READING A BUFFER OF THE
02154 626444602551
02155 514651603145
02156 605125212431

```

```

STAG DEC HAS IR2 COMPLEMENTED
IF TABLE STAG IR 2 IS 77744
BUFFER ADDRESS FIRST WORD 8K
DITTO 4K

```

SUCC IR2 IS 77733

8K  
4K

PRED IR2 IS 77721

8K  
4K

BBB IR2 IS 77707

8K  
4K

```

COPY ACL WITH ADDRESS OF DRUM SUM IN CORES
DRUM SUM FROM ADDRESS FOUND ABOVE
COMPUTED SUM PICKED UP FROM 307 AND STORED
DRUM SELECT AND INITIAL ADDRESS FROM 313

```

```

CORE ADDRESS OF 1ST WORD OF TABLE
ACTUAL WORD COUNT STORED HERE
D313 ANA 3777 IS ADDRESS 1ST WORD ON DRUM

```

02157 452760216022  
02160 642626255160  
02161 462660633025  
02162 606263212760  
02163 632122432573  
02164 602225273145  
02165 453145276021  
02166 636021242451  
02167 606025626260  
02170 604645606060  
02171 245164446001  
02172 606060606060  
02173 606060606060  
02174 606060606060  
02175 606060606060  
02176 606060606060  
02177 214524602346  
02200 456331456425  
02201 246046456024  
02202 516444600233  
02203 606060606060  
02204 606060606060  
02205 606060606060  
02206 606060606060  
02207 606060606060  
02210 606060606060  
02211 606060606060  
02212 606060606060  
02213 314560234651  
02214 256273606330  
02215 256022642626  
02216 255160222527  
02217 314562602163  
02220 604346232163  
02221 606060314645  
02222 606060606060  
02223 606060606060  
02224 606060606060  
02225 633025606263  
02226 212760632122  
02227 432560302162  
02230 602160046022  
02231 316360254563  
02232 517060264651  
02233 602521233060  
02234 632127272524  
02235 603145626351  
02236 642363314645  
02237 602346444731  
02240 432524336060  
02241 252123306062  
02242 632127606646  
02243 512460304643  
02244 246260116025

PR1 BCD 1 STAG  
BCD 4TABLE, BEGINNING AT ADDR

PR2 BCD 1 ESS CHANGED TO ESS 12  
PR3 BCD 1 ON CHANGED TO 34 ON  
PR4 BCD 6DRUM 1

BCD 3AND CONTINUED ON D

PR5 BCD 7RUM 2.

PRCR BCD 2  
BCD 6IN CORES, THE BUFFER BEGINS AT LOCAT

ADMEM BCD 2 ION CHANGED TO ION 12345

PRA BCD 2  
BCD THE STAG TABLE HAS A 4 BIT ENTRY FOR EACH TAGGED INSTRUCTION

BCD COMPILED. EACH STAG WORD HOLDS 9 ENTRIES.

02245 456351312562  
02246 336060606060  
02247 606060606060  
02250 606060606060  
02251 606060606060  
02252 606060606060  
02253 633025606264  
02254 232360632122  
02255 432560302162  
02256 600160664651  
02257 246025456351  
02260 312562336060  
02261 606060606060  
02262 606060606060  
02263 606060606060  
02264 606060606060  
02265 606060606060  
02266 606060606060  
02267 633025604751  
02270 252460632122  
02271 432560302162  
02272 600160664651  
02273 246025456351  
02274 312562336060  
02275 606060606060  
02276 606060606060  
02277 606060606060  
02300 606060606060  
02301 606060606060  
02302 606060606060  
02303 633025602222  
02304 226063212243  
02305 256030216260  
02306 066066465124  
02307 602545635131  
02310 256233606060  
02311 606060606060  
02312 606060606060  
02313 606060606060  
02314 606060606060  
02315 606060606060  
02316 606060606060  
02317 633025606321  
02320 224325606621  
02321 626066513163  
02322 632545604645  
02323 606330256024  
02324 516444602651  
02325 464460216022  
02326 642626255160  
02327 606060462660  
02330 606646512460  
02331 626046236321  
02332 433360606060

PRB BCD 2

BCD THE SUCC TABLE HAS 1 WORD ENTRIES.

PRC BCD 2

BCD THE PRED TABLE HAS 1 WORD ENTRIES.

PRD BCD 2

BCD THE BBB TABLE HAS 6 WORD ENTRIES.

PRSZ BCD 2

BCD 8THE TABLE WAS WRITTEN ON THE DRUM FROM A BUFFER

PR6 BCD 1 OF  
PR7 BCD 1 WORD  
BCD S OCTAL.

CHANGED TO OF 123  
CHANGED TO 4 WORD

02333 606060606060  
02334 606060606060  
02335 606060606060  
02336 606060606060  
02337 606060606060  
02340 606060606060  
02341 606060606060  
02342 606060606060  
02343 252123306022  
02344 642626255160  
02345 316260264643  
02346 434666252460  
02347 227060316362  
02350 602330252342  
02351 606264443360  
02352 606060606060  
02353 606060606060  
02354 606060606060  
02355 606060606060  
02356 606060606060  
02357 606060606060  
02360 606060606060  
02361 606060606060  
02362 606060606060  
02363 606060606060  
02364 606060606060  
02365 606060606060  
02366 606060606060  
02367 633025602346  
02370 444764632524  
02371 602330252342  
02372 606264446031  
02373 456043462321  
02374 633146456003  
02375 000760316260  
02376 006000000000  
02377 006000600000  
02400 000000606060  
02401 606060606060  
02402 606060606060  
02403 606060606060  
02404 606060606060  
02405 606060606060  
02406 606060606060  
02407 606060606060  
02410 606060606060  
02411 606060606060  
02412 606060606060  
02413 633025602451  
02414 644460233025  
02415 234260626444  
02416 603145604346  
02417 232163314645  
02420 600102030405

BCD EACH BUFFER IS FOLLOWED BY ITS CHECK SUM.

BCD

BCD 7THE COMPUTED CHECK SUM IN LOCATION 307 IS

PR8 BCD 0 00000 0 00000

BCD 3

BCD 5THE DRUM CHECK SUM IN LOCATION

PR9 BCD 1 12345

02421 603162600060  
02422 606060606060  
02423 606060606060  
02424 606060606060  
02425 606060606060  
02426 606060606060  
02427 606060606060  
02430 606060606060  
02431 606060606060  
02432 606060606060  
02433 606060606060  
02434 606060606060  
02435 606060606060  
02436 606060606060  
02437 606060606060  
02440 606060606060  
02441 606060606060  
02442 606060606060  
02443 606060606060  
02444 606060606060  
02445 606060606060  
02446 606060606060  
02447 606060606060  
02450 606060606060  
02451 606060606060  
02452 606060606060  
02453 606060606060  
02454 606060606060  
02455 606060606060  
02456 606060606060  
02457 606060606060  
02460 606060606060  
02461 606060606060  
02462 606060606060  
02463 263165256021  
02464 636325444763  
02465 626030216525  
02466 602225254560  
02467 442124256063  
02470 466051252124  
02471 606330316260  
02472 622523633146  
02473 456046266063  
02474 302560632122  
02475 432560234651  
02476 512523634370  
02477 602651464460  
02500 633025602451  
02501 644433606060  
02502 606060606060  
02503 606060606060  
02504 606060606060  
02505 606060606060  
02506 606060606060

PR10 BCD IS 0.

BCD 4

BCD

BCD

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS SECTION OF THE TAB

BCD LE CORRECTLY FROM THE DRUM.

02507 606060606060  
02510 606060606060  
02511 606060606060  
02512 606060606060  
02513 606060606060  
02514 606060606060  
02515 606060606060  
02516 606060606060  
02517 606060606060  
02520 606060606060  
02521 606060606060  
02522 606060606060  
02523 606060606060  
02524 606060606060  
02525 606060606060  
02526 606060606060  
02527 606060606060  
02530 606060606060  
02531 606060606060  
02532 606060606060  
02533 606060606060  
02534 606060606060  
02535 606060606060  
02536 606060606060  
02537 606060606060  
02540 606060606060  
02541 606060606060  
02542 606060606060  
02543 606060606060  
02544 606060606060  
02545 606060606060  
02546 606060606060  
02547 606060606060  
02550 606060606060  
02551 606060606060  
02552 606060606060  
02553 606060606060  
02554 606060606060  
02555 606060606060  
02556 606060606060  
02557 454663256040  
02560 603126606330  
02561 256023302523  
02562 426062644460  
02563 243162235125  
02564 472145237060  
02565 316260432151  
02566 272573603163  
02567 604421706031  
02570 452431232163  
02571 256021604721  
02572 516360462660  
02573 633025604751  
02574 462751214460

BCD

BCD

BCD

BCD

BCD NOTE - IF THE CHECK SUM DISCREPANCY IS LARGE, IT MAY INDICAT

BCD E A PART OF THE PROGRAM CANNOT BE REACHED.

02575 232145454663  
 02576 602225605125  
 02577 212330252433  
 02600 606060606060  
 02601 606060606060  
 02602 606060606060  
 02603 606060606060  
 02604 606060606060  
 02605 606060606060  
 02606 606060606060  
 02607 606060606060  
 02610 606060606060  
 02611 606060606060  
 02612 606060606060  
 02613 606060606060  
 02614 606060606060  
 02615 606060606060  
 02616 606060606060  
 02617 606060606060  
 02620 606060606060  
 02621 606060606060  
 02622 606060606060  
 02623 606060606060  
 02624 606060606060  
 02625 606060606060  
 02626 606060606060  
 02627 606060606060  
 02630 606060606060  
 02631 606060606060  
 02632 606060606060  
 02633 606060606060  
 02634 606060606060  
 02635 606060606060  
 02636 606060606060  
 02637 606060606060  
 02640 606060606060  
 02641 606060606060  
 02642 606060606060  
 02643 606060606060  
 02644 606060606060  
 02645 606060606060  
 02646 606060606060  
 02647 606060606060  
 02650 606060606060  
 02651 606060606060  
 02652 606060606060  
 02653 314560465124  
 02654 255160634660  
 02655 232143436031  
 02656 456063303162  
 02657 602431212745  
 02660 466263312360  
 02661 663163304664  
 02662 636024316263

PRSZND BCD

BCD

BCD

BCD

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

02663 645122314527  
02664 602346512562  
02665 736002000410  
02666 606646512462  
02667 604626604425  
02670 444651706030  
02671 216525602225  
02672 254560665131  
02673 636325456060  
02674 606060606060  
02675 606060606060  
02676 606060606060  
02677 464560634660  
02700 245164446004  
02701 736024256263  
02702 514670314527  
02703 606330256063  
02704 212243256260  
02705 214524606330  
02706 253151602330  
02707 252342606264  
02710 446233606060  
02711 606060606060  
02712 606060606060  
02713 606060606060  
02714 606060606060  
02715 606060606060  
02716 606060606060  
02717 606060606060  
02720 606060606060  
02721 606060606060  
02722 606060606060  
02723 442544465170  
02724 606631434360  
02725 222560512562  
02726 634651252473  
02727 602264636063  
02730 302551256031  
02731 626045466066  
02732 217060634660  
02733 234645263151  
02734 446063302560  
02735 233025234260  
02736 626444602551  
02737 514651604645  
02740 606330256024  
02741 516444336060  
02742 606060606060  
02743 606060606060  
02744 606060606060  
02745 606060606060  
02746 606060606060  
02747 0 00000 0 00000 X  
00000

BCD , 2048 WORDS OF MEMORY HAVE BEEN WRITTEN

BCD ON TO DRUM 4, DESTROYING THE TABLES AND THEIR CHECK SUMS.

BCD

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

BCD CHECK SUM ERROR ON THE DRUM.

END

A

1135



1  
1

ORG 54

00066 0 01303 0 01552  
01303

TD 01303 3 00000 0 00066  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01553 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 233025234260  
01314 626444602551  
01315 514651603145  
01316 605125212431  
01317 452760633025  
01320 606646512460  
01321 234664456360  
01322 462660633025  
01323 602531264546  
01324 606321224325  
01325 602651464460  
01326 245164446004  
01327 336060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 633025602451  
01340 644460212424  
01341 512562626046  
01342 266063303162  
01343 602545635170  
01344 603162600273  
01345 602145246031  
01346 636031626023  
01347 464731252460  
01350 314563466023  
01351 465125604346  
01352 232163314645  
01353 600106053360  
01354 606060606060  
01355 606060606060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 316362602330  
01364 252342606264

FORCE NEW RECORD

ORG 54  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 54  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+162  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

222 FT 94

BCD CHECK SUM ERROR IN READING THE WORD COUNT OF THE EIFNO TABLE

BCD FROM DRUM 4.

BCD THE DRUM ADDRESS OF THIS ENTRY IS 2, AND IT IS COPIED INTO C

BCD ORE LOCATION 165.

BCD ITS CHECK SUM IS COPIED FROM 3 INTO 223. THE COPY LOOP BEGI

01365 446031626023  
01366 464731252460  
01367 265146446003  
01370 603145634660  
01371 020203336060  
01372 633025602346  
01373 477060434646  
01374 476022252731  
01375 456260216360  
01376 020100336060  
01377 606060606060  
01400 606060606060  
01401 606060606060  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 263165256021  
01410 636325444763  
01411 626030216525  
01412 602225254560  
01413 442124256063  
01414 466051252124  
01415 606330316260  
01416 464525602545  
01417 635170602346  
01420 515125236343  
01421 703360606060  
01422 606060606060  
01423 606060606060  
01424 606060606060  
01425 606060606060  
01426 606060606060  
01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 606060606060  
01434 606060606060  
01435 606060606060  
01436 606060606060  
01437 606060606060  
01440 606060606060  
01441 606060606060  
01442 606060606060  
01443 606060606060  
01444 606060606060  
01445 606060606060  
01446 606060606060  
01447 606060606060  
01450 606060606060  
01451 606060606060  
01452 606060606060

BCD NS AT 210.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS ONE ENTRY CORRECTL

BCD Y.

BCD

BCD

01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 314560465124  
01460 255160634660  
01461 232143436031  
01462 456063303162  
01463 602431212745  
01464 466263312360  
01465 663163304664  
01466 636024316263  
01467 645122314527  
01470 602346512562  
01471 736002000410  
01472 606646512462  
01473 604626604425  
01474 444651706060  
01475 606060606060  
01476 606060606060  
01477 606060606060  
01500 606060606060  
01501 606060606060  
01502 606060606060  
01503 302165256022  
01504 252545605125  
01505 212460464563  
01506 466024516444  
01507 600473602425  
01510 626351467031  
01511 452760633025  
01512 602531264546  
01513 606646512460  
01514 234664456373  
01515 603163626023  
01516 302523426062  
01517 644473602145  
01520 246063302560  
01521 632122432533  
01522 606060606060  
01523 606060606060  
01524 606060606060  
01525 606060606060  
01526 606060606060  
01527 442544465170  
01530 606631434360  
01531 222560512562  
01532 634651252473  
01533 602264636063  
01534 302551256031  
01535 626045466066  
01536 217060634660  
01537 234645263151  
01540 446063302560

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE EIFNO WORD COUNT,

BCD ITS CHECK SUM, AND THE TABLE.

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

01541 233025234260  
01542 626444602551  
01543 514651604645  
01544 606330256024  
01545 516444336060  
01546 606060606060  
01547 606060606060  
01550 606060606060  
01551 606060606060  
01552 606060606060  
01553 0 00000 0 00000 X

BCD CHECK SUM ERROR ON THE DRUM.

A

00000

END

1  
1

ORG 55

00067 0 01303 0 01552  
01303  
TD 01303 3 00000 0 00067  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01553 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 233025234260  
01314 626444602551  
01315 514651603145  
01316 605125212431  
01317 452760633025  
01320 606646512460  
01321 234664456360  
01322 462660633025  
01323 602531264546  
01324 606321224325  
01325 602651464460  
01326 245164446004  
01327 336060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 633025602451  
01340 644460212424  
01341 512562626046  
01342 266063303162  
01343 602545635170  
01344 603162600273  
01345 602145246031  
01346 636031626023  
01347 464731252460  
01350 314563466023  
01351 465125604346  
01352 232163314645  
01353 600201010233  
01354 606060606060  
01355 606060606060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 316362602330  
01364 252342606264

FORCE NEW RECORD

ORG 55  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 55  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+162  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

222 FT 107

BCD CHECK SUM ERROR IN READING THE WORD COUNT OF THE EIFNO TABLE

BCD FROM DRUM 4.

BCD THE DRUM ADDRESS OF THIS ENTRY IS 2, AND IT IS COPIED INTO C

BCD ORE LOCATION 2112.

BCD ITS CHECK SUM IS COPIED FROM 3 INTO 533. THE COPY LOOP BEGI

01365 446031626023  
01366 464731252460  
01367 265146446003  
01370 603145634660  
01371 050303336060  
01372 633025602346  
01373 477060434646  
01374 476022252731  
01375 456260216360  
01376 020100336060  
01377 606060606060  
01400 606060606060  
01401 606060606060  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 263165256021  
01410 636325444763  
01411 626030216525  
01412 602225254560  
01413 442124256063  
01414 466051252124  
01415 606330316260  
01416 464525602545  
01417 635170602346  
01420 515125236343  
01421 703360606060  
01422 606060606060  
01423 606060606060  
01424 606060606060  
01425 606060606060  
01426 606060606060  
01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 606060606060  
01434 606060606060  
01435 606060606060  
01436 606060606060  
01437 606060606060  
01440 606060606060  
01441 606060606060  
01442 606060606060  
01443 606060606060  
01444 606060606060  
01445 606060606060  
01446 606060606060  
01447 606060606060  
01450 606060606060  
01451 606060606060  
01452 606060606060

BCD NS AT 210.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS ONE ENTRY CORRECTL

BCD Y.

BCD

BCD

01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 314560465124  
01460 255160634660  
01461 232143436031  
01462 456063303162  
01463 602431212745  
01464 466263312360  
01465 663163304664  
01466 636024316263  
01467 645122314527  
01470 602346512562  
01471 736002000410  
01472 606646512462  
01473 604626604425  
01474 444651706060  
01475 606060606060  
01476 606060606060  
01477 606060606060  
01500 606060606060  
01501 606060606060  
01502 606060606060  
01503 302165256022  
01504 252545605125  
01505 212460464563  
01506 466024516444  
01507 600473602425  
01510 626351467031  
01511 452760633025  
01512 602531264546  
01513 606646512460  
01514 234664456373  
01515 603163626023  
01516 302523426062  
01517 644473602145  
01520 246063302560  
01521 632122432533  
01522 606060606060  
01523 606060606060  
01524 606060606060  
01525 606060606060  
01526 606060606060  
01527 442544465170  
01530 606631434360  
01531 222560512562  
01532 634651252473  
01533 602264636063  
01534 302551256031  
01535 626045466066  
01536 217060634660  
01537 234645263151  
01540 446063302560

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE EIFNO WORD COUNT,

BCD ITS CHECK SUM, AND THE TABLE.

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

01541 233025234260  
01542 626444602551  
01543 514651604645  
01544 606330256024  
01545 516444336060  
01546 606060606060  
01547 606060606060  
01550 606060606060  
01551 606060606060  
01552 606060606060  
01553 0 00000 0 00000 X  
00000

BCD CHECK SUM ERROR ON THE DRUM.

A

END

1142



1  
1

ORG 56

00070 0 01303 0 01626 00070

TD 01303 3 00000 0 00070 01303

01304 0 07400 4 00740 01303

01305 0 01244 0 01237 00070

01306 0 76200 0 00304 00070

01307 0 46000 0 01340 00070

01310 0 70000 0 01257 00070

01311 0 50000 0 01257 00070

01312 0 77100 0 00022 00070

01313 0 60100 0 01271 00070

01314 0 07400 4 00676 00070

01315 0 60200 0 01257 00070

01316 0 56000 0 01257 00070

01317 -0 50000 0 01404 00070

01320 -0 77300 0 00006 00070

01321 -0 76300 0 00036 00070

01322 0 60200 0 01404 00070

01323 0 50000 0 01337 00070

01324 0 40200 0 01271 00070

01325 0 07400 4 00730 00070

01326 0 60200 0 01257 00070

01327 0 56000 0 01257 00070

01330 -0 76300 0 00014 00070

01331 -0 50000 0 01402 00070

01332 -0 76300 0 00030 00070

01333 0 60200 0 01402 00070

01334 0 07400 4 00740 00070

01335 0 01627 0 01341 00070

01336 0 02000 0 00221 00070

01337 +000000002112

01340 0 00000 0 00165 A

01341 60606060606Q PR

01342 606060606060

01343 233025234260

01344 626444602551

01345 514651603145

01346 605125212431

01347 452760633025

01350 602531264546

01351 606321224325

01352 602651464460

01353 245164446004

01354 336060606060

01355 606060606060

01356 606060606060

01357 606060606060

01360 606060606060

01361 606060606060

01362 606060606060

01363 606060606060

01364 606060606060

FORCE NEW RECORD

ORG 56

HTR X-1,0,LOCREC

ORG LOCREC

TXH 56

TSX PRINT,4

HTR MACHIN,0,MACHIN+5

RDR 4

LDA A

CPY ERAS

CLA ERAS

ARS 18

STO ERAS+10

TSX BINDEC,4

SLW ERAS

LDQ ERAS

CAL PR2

RQL 6

LGL 30

SLW PR2

CLA TEIFNO

SUB ERAS+10

TSX OCTBCD,4

SLW ERAS

LDQ ERAS

LGL 12

CAL PR1

LGL 24

SLW PR1

TSX PRINT,4

HTR PR,0,PR+182

TRA DIGRTN

OCT 00000002112

HTR8165

BCD 2

FORCE NEW RECORD

CARD FOR DE

241 FT 107

165 OCTAL, CONTAINS WORD COUNT

BCD CHECK SUM ERROR IN READING THE EIFNO TABLE FROM DRUM 4.

BCD

01365 606060606060  
01366 606060606060  
01367 633025602451  
01370 644460212424  
01371 512562626046  
01372 266063302560  
01373 263151626360  
01374 254563517060  
01375 316260043360  
01376 606330256063  
01377 212243256031  
01400 626023464731  
01401 252460314563  
01402 606060604660  
01403 602145246031  
01404 606060606062  
01405 606646512462  
01406 604346452733  
01407 606060606060  
01410 606060606060  
01411 606060606060  
01412 606060606060  
01413 633025602451  
01414 644460233025  
01415 234260626444  
01416 603162603145  
01417 600503033360  
01420 606330256023  
01421 464447646325  
01422 246023302523  
01423 426062644460  
01424 316260454663  
01425 606263465125  
01426 247360633025  
01427 512526465125  
01430 603163603162  
01431 604546636021  
01432 652131432122  
01433 432533606060  
01434 606060606060  
01435 606060606060  
01436 606060606060  
01437 633025602346  
01440 477060434646  
01441 476022252731  
01442 456260216360  
01443 434623216331  
01444 464560020203  
01445 336060606060  
01446 606060606060  
01447 606060606060  
01450 606060606060  
01451 606060606060  
01452 606060606060

BCD THE DRUM ADDRESS OF THE FIRST ENTRY IS 4. THE TABLE IS COPI

PR1 BCD 1ED INT  
BCD 1 0  
BCD 1 AND I  
PR2 BCD 1 S  
BCD 6 WORDS LONG.

BCD THE DRUM CHECK SUM IS IN 533. THE COMPUTED CHECK SUM IS NOT

BCD STORED, THEREFORE IT IS NOT AVAILABLE.

BCD THE COPY LOOP BEGINS AT LOCATION 223.

BCD

01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 606060606060  
01462 606060606060  
01463 263165256021  
01464 636325444763  
01465 626030216525  
01466 602225254560  
01467 442124256063  
01470 466051252124  
01471 606330256025  
01472 312645466063  
01473 212243256023  
01474 465151252363  
01475 437033606060  
01476 606060606060  
01477 606060606060  
01500 606060606060  
01501 606060606060  
01502 606060606060  
01503 606060606060  
01504 606060606060  
01505 606060606060  
01506 606060606060  
01507 606060606060  
01510 606060606060  
01511 606060606060  
01512 606060606060  
01513 606060606060  
01514 606060606060  
01515 606060606060  
01516 606060606060  
01517 606060606060  
01520 606060606060  
01521 606060606060  
01522 606060606060  
01523 606060606060  
01524 606060606060  
01525 606060606060  
01526 606060606060  
01527 606060606060  
01530 606060606060  
01531 606060606060  
01532 606060606060  
01533 314560465124  
01534 255160634660  
01535 232143436031  
01536 456063303162  
01537 602431212745  
01540 466263312360

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THE EIFNO TABLE CORRECT

BCD LY.

BCD

BCD

BCD IN ORDER TO CALL IN THIS DIAGNOSTIC WITHOUT DISTURBING CORES

01541 663163304664  
01542 636024316263  
01543 645122314527  
01544 602346512562  
01545 736002000410  
01546 606646512462  
01547 604626604425  
01550 444651706060  
01551 606060606060  
01552 606060606060  
01553 606060606060  
01554 606060606060  
01555 606060606060  
01556 606060606060  
01557 302165256022  
01560 252545605125  
01561 212460464563  
01562 466024516444  
01563 600473602425  
01564 626351467031  
01565 452760633025  
01566 602531264546  
01567 606646512460  
01570 234664456373  
01571 606330256063  
01572 212243257360  
01573 214524603163  
01574 626023302523  
01575 426062644433  
01576 606060606060  
01577 606060606060  
01600 606060606060  
01601 606060606060  
01602 606060606060  
01603 442544465170  
01604 606631434360  
01605 222560512562  
01606 634651252473  
01607 602264636063  
01610 302551256031  
01611 626045466066  
01612 217060634660  
01613 234645263151  
01614 446063302560  
01615 233025234260  
01616 626444602551  
01617 514651604645  
01620 606330256024  
01621 516444336060  
01622 606060606060  
01623 606060606060  
01624 606060606060  
01625 606060606060  
01626 606060606060

BCD , 2048 WORDS OF MEMORY

BCD HAVE BEEN READ ONTO DRUM 4, DESTROYING THE EIFNO WORD COUNT,

BCD THE TABLE, AND ITS CHECK SUM.

BCD MEMORY WILL BE RESTORED, BUT THERE IS NO WAY TO CONFIRM THE

BCD CHECK SUM ERROR ON THE DRUM.

117

A 01627 0 00000 0 00000 X  
0 00000 . END

11/1

1  
1

ORG 57

00071 0 01303 0 00071  
01437  
01303

TD 01303 3 00000 0 00071  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 76200 0 00304  
01307 0 46000 0 01322  
01310 0 70000 0 01257  
01311 0 50200 0 01323  
01312 0 40000 0 01257  
01313 0 07400 4 00730  
01314 0 56000 0 00717  
01315 -0 76300 0 00006  
01316 0 60200 0 01363  
01317 0 07400 4 00740  
01320 0 01440 0 01324  
01321 0 02000 0 00221  
01322 0 00000 0 01256 A  
T 01323 -0 75400 0 05453 OTA  
01324 606060606060 PR  
01325 606060606060  
01326 233025234260  
01327 626444602551  
01330 514651603145  
01331 605125212431  
01332 452760264346  
01333 234645606321  
01334 224325602651  
01335 464460245164  
01336 446002336060  
01337 234647706043  
01340 464647602225  
01341 273145626021  
01342 636043462321  
01343 633146456001  
01344 020500336060  
01345 606060606060  
01346 606060606060  
01347 606060606060  
01350 606060606060  
01351 606060606060  
01352 626321516331  
01353 452760245164  
01354 446021242451  
01355 256262603162  
01356 603145600505  
01357 013360606063  
01360 302560632122  
01361 432560222527  
01362 314562602163  
01363 600102030460  
01364 214524602346

FORCE NEW RECORD

ORG 57  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 57  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
RDR 4  
LDA A  
CPY ERAS  
CLS OTA  
ADD ERAS  
TSX OCTBCD,4  
LDQ BLANKS  
LGL 6  
SLW PR1  
TSX PRINT,4  
HTR PR,0,PR+76  
TRA DIGRTN  
HTR81256  
PXD85453  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1274 FT 22

FORM LOCATION OF FIRST WORD IN TABLE

LOCATION OF WORD COUNT OF FLOCON TABLE  
ADDRESS OF LAST TABLE ENTRY PLUS ONE.

BCD CHECK SUM ERROR IN READING FLOCON TABLE FROM DRUM 2. COPY L

BCD OOP BEGINS AT LOCATION 1250.

BCD 9STARTING DRUM ADDRESS IS IN 551. THE TABLE BEGINS AT

PR1 BCD 1 1234  
BCD AND CONSISTS OF BLOCKS OF FIFTY WORDS.

01365 456231626362  
01366 604626602243  
01367 462342626046  
01370 266026312663  
01371 706066465124  
01372 627360606060  
01373 606060606060  
01374 606060606060  
01375 606060606060  
01376 252123306022  
01377 434623426047  
01400 512523252425  
01401 246022706031  
01402 636260466645  
01403 602330252342  
01404 606264443360  
01405 602330252342  
01406 606264444431  
01407 452760316260  
01410 244645256022  
01411 706021242440  
01412 214524402321  
01413 515170404346  
01414 273123214360  
01415 214524602346  
01416 444743254425  
01417 456333606060  
01420 606060606060  
01421 606060606060  
01422 316360316260  
01423 454663606263  
01424 465125243360  
01425 602631652560  
01426 216363254447  
01427 636260302165  
01430 256022252545  
01431 604421242560  
01432 634660512521  
01433 246063302560  
01434 254563315125  
01435 606321224325  
01436 602346515125  
01437 236343703360  
01440 0 0000 0 00000 X  
00000

BCD EACH BLOCK PRECEDED BY ITS OWN CHECK SUM. CHECK SUMMING IS

BCD DONE BY ADD-AND-CARRY-LOGICAL AND COMPLEMENT.

BCD IT IS NOT STORED. FIVE ATTEMPTS HAVE BEEN MADE TO READ THE

BCD 4ENTIRE TABLE CORRECTLY.

END

A

1  
1

TD

ORG 58  
 00072 0 01303 0 01420  
 01303 3 00000 0 00072  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01421 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 233025234260  
 01314 626444602551  
 01315 514651603145  
 01316 605125212431  
 01317 452760243144  
 01320 016063212243  
 01321 256026514644  
 01322 602451644460  
 01323 033360602346  
 01324 477060434646  
 01325 476022252731  
 01326 456260216360  
 01327 434623216331  
 01330 464560010301  
 01331 063360606263  
 01332 215163314527  
 01333 602451644460  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 212424512562  
 01340 626031626031  
 01341 456006010433  
 01342 606063302560  
 01343 632122432560  
 01344 316260234644  
 01345 474662252460  
 01346 462660636646  
 01347 606646512460  
 01350 254563513125  
 01351 627360252123  
 01352 306025456351  
 01353 706026464343  
 01354 466625246022  
 01355 706031636260  
 01356 466645602330  
 01357 252342606264  
 01360 443360606060  
 01361 606060606060  
 01362 606060606060  
 01363 233025234260  
 01364 626444443145

FORCE NEW RECORD

ORG 58  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 58  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+72  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD

CARD FOR DE  
 1345 FT 22

BCD CHECK SUM ERROR IN READING DIM1 TABLE FROM DRUM 3. COPY LOO

BCD P BEGINS AT LOCATION 1316. STARTING DRUM

BCD ADDRESS IS IN 614. THE TABLE IS COMPOSED OF TWO WORD ENTRIE

BCD S, EACH ENTRY FOLLOWED BY ITS OWN CHECK SUM.

BCD CHECK SUMMING IS DONE BY ADD-AND-CARRY-LOGICAL AND COMPLEMEN



01365 276031626024  
01366 464525602270  
01367 602124244021  
01370 452440232151  
01371 517040434627  
01372 312321436021  
01373 452460234644  
01374 474325442545  
01375 633360603163  
01376 603162604546  
01377 636062634651  
01400 252433606026  
01401 316525602163  
01402 632544476362  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 302165256022  
01410 252545604421  
01411 242560634660  
01412 512521246063  
01413 302560254563  
01414 315125606321  
01415 224325602346  
01416 515125236343  
01417 703360606060  
01420 606060606060  
01421 0 00000 0 00000 X  
00000

BCD T. IT IS NOT STORED. FIVE ATTEMPTS

BCD HAVE BEEN MADE TO READ THE ENTIRE TABLE CORRECTLY.

... END

A

1  
1

TD

ORG 59  
 00073 0 01303 0 01420 00073  
 01303 3 00000 0 00073  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01421 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 233025234260  
 01314 626444602551  
 01315 514651603145  
 01316 605125212431  
 01317 452760243144  
 01320 026063212243  
 01321 256026514644  
 01322 602451644460  
 01323 033360602346  
 01324 477060434646  
 01325 476022252731  
 01326 456260216360  
 01327 434623216331  
 01330 464560010305  
 01331 003360606263  
 01332 215163314527  
 01333 602451644460  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 212424512562  
 01340 626031626031  
 01341 456006020133  
 01342 606063302560  
 01343 632122432560  
 01344 316260234644  
 01345 474662252460  
 01346 462660636646  
 01347 606646512460  
 01350 254563513125  
 01351 627360252123  
 01352 306025456351  
 01353 706026464343  
 01354 466625246022  
 01355 706031636260  
 01356 466645602330  
 01357 252342606264  
 01360 443360606060  
 01361 606060606060  
 01362 606060606060  
 01363 233025234260  
 01364 626444443145

FORCE NEW RECORD  
 ORG 59  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 59  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+72  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 1377 FT 22

BCD CHECK SUM ERROR IN READING DIM2 TABLE FROM DRUM 3. COPY LOO

BCD P BEGINS AT LOCATION 1350. STARTING DRUM

BCD ADDRESS IS IN 621. THE TABLE IS COMPOSED OF TWO WORD ENTRIE

BCD S, EACH ENTRY FOLLOWED BY ITS OWN CHECK SUM.

BCD CHECK SUMMING IS DONE BY AN ADD-AND-CARRY-LOGICAL AND COMPLE

1153

01365 276031626024  
01366 464525602270  
01367 602145602124  
01370 244021452440  
01371 232151517040  
01372 434627312321  
01373 436021452460  
01374 234644474325  
01375 442545633360  
01376 603163603162  
01377 604546636062  
01400 634651252433  
01401 606026316525  
01402 602163632544  
01403 476362606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 302165256022  
01410 252545604421  
01411 242560634660  
01412 512521246063  
01413 302560254563  
01414 315125606321  
01415 224325602346  
01416 515125236343  
01417 703360606060  
01420 606060606060  
01421 0 00000 0 00000 X

A

00000

BCD MENT. IT IS NOT STORED. FIVE ATTEMPTS

BCD HAVE BEEN MADE TO READ THE ENTIRE TABLE CORRECTLY.

END

1  
1

ORG 60  
00074 0 01303 0 01420 00074  
01303 3 00000 0 00074 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01421 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 233025234260  
01314 626444602551  
01315 514651603145  
01316 605125212431  
01317 452760243144  
01320 036063212243  
01321 256026514644  
01322 602451644460  
01323 033360602346  
01324 477060434646  
01325 476022252731  
01326 456260216360  
01327 434623216331  
01330 464560010401  
01331 033360606263  
01332 215163314527  
01333 602451644460  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 212424512562  
01340 626031626031  
01341 456006020633  
01342 606063302560  
01343 632122432560  
01344 316260234644  
01345 474662252460  
01346 462660633051  
01347 252560664651  
01350 246025456351  
01351 312562736025  
01352 212330602545  
01353 635170602646  
01354 434346662524  
01355 602270603163  
01356 626046664560  
01357 233025234260  
01360 626444336060  
01361 606060606060  
01362 606060606060  
01363 233025234260  
01364 626444443145

FORCE NEW RECORD  
ORG 60  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 60  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+72  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1444 FT 22

BCD CHECK SUM ERROR IN READING DIM3 TABLE FROM DRUM 3. COPY LOO

BCD P BEGINS AT LOCATION 1413. STARTING DRUM

BCD ADDRESS IS IN 626. THE TABLE IS COMPOSED OF THREE WORD ENTR

BCD IES, EACH ENTRY FOLLOWED BY ITS OWN CHECK SUM.

BCD CHECK SUMMING IS DONE BY AN ADD-AND-CARRY-LOGICAL AND COMPLE

01365 276031626024  
01366 464525602270  
01367 602145602124  
01370 244021452440  
01371 232151517040  
01372 434627312321  
01373 436021452460  
01374 234644474325  
01375 442545633360  
01376 603163603162  
01377 604546636062  
01400 634651252433  
01401 606026316525  
01402 602163632544  
01403 476362606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 302165256022  
01410 252545604421  
01411 242560634660  
01412 512521246063  
01413 302560254563  
01414 315125606321  
01415 224325602346  
01416 515125236343  
01417 703360606060  
01420 606060606060  
01421 0 00000 0 00000 X  
00000

BCD MENT. IT IS NOT STORED. FIVE ATTEMPTS

BCD HAVE BEEN MADE TO READ THE ENTIRE TABLE CORRECTLY.

END

A

1  
1  
ORG 61  
00075 0 01303 0 01350 00075  
01303 3 00000 0 00075  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527606331  
01317 262746606321  
01320 224325736063  
01321 214725600273  
01322 602631432560  
01323 057360512523  
01324 465124600633  
01325 606023464770  
01326 604346464760  
01327 222527314562  
01330 602163604346  
01331 232163314645  
01332 600707013360  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
A 00000

FORCE NEW RECORD  
ORG 61  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 61  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1031 FT 24

BCD TAPE CHECK IN READING TIFGO TABLE, TAPE 2, FILE 5, RECORD 6.

BCD COPY LOOP BEGINS AT LOCATION 771.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

TD

A

ORG 62  
 00076 0 01303 0 00076  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527602160  
 01317 233163605125  
 01320 234651246026  
 01321 514644606321  
 01322 472560033360  
 01323 602346477060  
 01324 434646476022  
 01325 252731456260  
 01326 216360434623  
 01327 216331464560  
 01330 010107033360  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

PR

FORCE NEW RECORD

ORG 62  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 62  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD

CARD FOR DE  
 1221 FT 22

BCD TAPE CHECK IN READING A CIT RECORD FROM TAPE 3. COPY LOOP B

BCD EGINS AT LOCATION 1173.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1  
1  
TD  
ORG 63  
00077 0 01303 0 01422  
01303 3 00000 0 00077  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01423 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527602160  
01317 512523465124  
01320 602651464460  
01321 632147256002  
01322 336060633031  
01323 626051252346  
01324 512460316260  
01325 216063212243  
01326 256021626225  
01327 442243252460  
01330 227060622523  
01331 633146456001  
01332 604751314425  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 265146446025  
01340 456351312562  
01341 604645606321  
01342 472560036031  
01343 456346602160  
01344 226426262551  
01345 602145246066  
01346 513163632545  
01347 604645606321  
01350 472560023360  
01351 606264225146  
01352 646331452560  
01353 663031233060  
01354 665131632562  
01355 606330256063  
01356 214725602225  
01357 273145626021  
01360 636060606060  
01361 606060606060  
01362 606060606060  
01363 434623216331  
01364 464560070605

FORCE NEW RECORD  
ORG 63  
HTR X-1,0,LOCREC FORCE NEW RECORD  
ORG LOCREC CARD FOR DE  
TXH 63 7720 FT 21  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+74  
TRA DIGRTN  
BCD 2

BCD TAPE CHECK IN READING A RECORD FROM TAPE 2. THIS RECORD IS

BCD A TABLE ASSEMBLED BY SECTION 1 PRIME

BCD FROM ENTRIES ON TAPE 3 INTO A BUFFER AND WRITTEN ON TAPE 2.

BCD SUBROUTINE WHICH WRITES THE TAPE BEGINS AT

BCD LOCATION 7656. THE RECORD HAS BEEN READ BACK INTO LOCATION



01365 063360606330  
01366 256051252346  
01367 512460302162  
01370 602225254560  
01371 512521246022  
01372 212342603145  
01373 634660434623  
01374 216331464560  
01375 070603026021  
01376 452460633025  
01377 605163636031  
01400 456263516423  
01401 633146456030  
01402 216260262131  
01403 432524606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 252123306063  
01410 314425336060  
01411 263165256021  
01412 636325444763  
01413 626030216525  
01414 602225254560  
01415 442124256063  
01416 466066513163  
01417 256063303162  
01420 605125234651  
01421 246023465151  
01422 252363437033  
01423 0 00000 0 00000 X  
          00000

BCD 7632 AND THE RTT INSTRUCTION HAS FAILED

BCD EACH TIME. FIVE ATTEMPTS HAVE BEEN MADE TO WRITE THIS RECOR

BCD 2D CORRECTLY.

END

A

1  
1  
ORG 64 00100  
00100 0 01303 0 01422  
01303  
TD 01303 3 00000 0 00100  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01423 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527602160  
01317 512523465124  
01320 602651464460  
01321 632147256004  
01322 336060633031  
01323 626051252346  
01324 512460316260  
01325 216063212243  
01326 256031242545  
01327 633126312321  
01330 633146456066  
01331 465124602145  
01332 246021456025  
01333 456351706060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 442124256022  
01340 706062252363  
01341 314645600160  
01342 464560632147  
01343 256004336060  
01344 622523633146  
01345 456001604751  
01346 314425603162  
01347 602163632544  
01350 476331452760  
01351 634660476463  
01352 602143436063  
01353 302560623144  
01354 314321516025  
01355 456351312562  
01356 603145634660  
01357 464525606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 226426262551  
01364 602225264651

FORCE NEW RECORD  
ORG 64 FORCE NEW RECORD  
HTR X-1,0,LOCREC CARD FOR DE  
ORG LOCREC  
TXH 64 7627 FT 21  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+74  
TRA DIGRTN  
BCD 2

BCD TAPE CHECK IN READING A RECORD FROM TAPE 4. THIS RECORD IS

BCD A TABLE IDENTIFICATION WORD AND AN ENTRY

BCD MADE BY SECTION 1 ON TAPE 4. SECTION 1 PRIME IS ATTEMPTING

BCD TO PUT ALL THE SIMILAR ENTRIES INTO ONE

BCD BUFFER BEFORE WRITING THE TABLE ON TAPE 2. COPY LOOP BEGINS

01365 256066513163  
01366 314527606330  
01367 256063212243  
01370 256046456063  
01371 214725600233  
01372 606023464770  
01373 604346464760  
01374 222527314562  
01375 602163604346  
01376 232163314645  
01377 600705050033  
01400 606051252346  
01401 512460312425  
01402 456331263123  
01403 216331464560  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 316260216360  
01410 070603013360  
01411 602631652560  
01412 216363254447  
01413 636260302165  
01414 256022252545  
01415 604421242560  
01416 634660512521  
01417 246063303162  
01420 605125234651  
01421 246023465151  
01422 252363437033  
01423 0 00000 0 00000 X  
                  00000

BCD AT LOCATION 7550. RECORD IDENTIFICATION

BCD IS AT 7631. FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECOR

BCD 2D CORRECTLY.

END

A

```

1          ORG 65
1          00101 0 01303 0 00101 01350
          01303
TD 01303 3 00000 0 00101
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01351 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 632147256023
01314 302523426031
01315 456051252124
01316 314527600260
01317 664651246051
01320 252346512460
01321 265146446063
01322 214725600273
01323 602631432560
01324 073360602346
01325 477060434646
01326 476031626021
01327 636043462321
01330 633146456003
01331 003360606060
01332 606060606060
01333 606060606060
01334 606060606060
01335 606060606060
01336 606060606060
01337 263165256021
01340 636325444763
01341 626030216525
01342 602225254560
01343 442124256063
01344 466051252124
01345 606330316260
01346 512523465124
01347 602346515125
01350 236343703360
01351 0 00000 0 00000 X
          00000
A

```

```

FORCE NEW RECORD
ORG 65          FORCE NEW RECORD
HTR X-1,0,LOCREC  CARD FOR DE
ORG LOCREC
TXH 65          61 FT 47
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+32
TRA DIGRTN
BCD 2
BCD TAPE CHECK IN READING 2 WORD RECORD FROM TAPE 2, FILE 7. CO

BCD PY LOOP IS AT LOCATION 30.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

```

1163

1  
1

TD

ORG 66

00102 0 01303 0 01350  
01303 3 00000 0 00102

01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560037360  
01322 263143256001  
01323 336060234647  
01324 706043464647  
01325 603162602163  
01326 604346232163  
01327 314645600501  
01330 336060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

A

FORCE NEW RECORD

ORG 66  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 66  
66  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD

CARD FOR DE  
116 FT 53  
132 FT 53

BCD TAPE CHECK IN READING RECORD FROM TAPE 3, FILE 1. COPY LOOP

BCD IS AT LOCATION 51.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

ORG 67

FORCE NEW RECORD

00103 0 01303 0 01350  
 01303 3 00000 0 00103  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527605125  
 01317 234651246026  
 01320 514644606321  
 01321 472560027360  
 01322 263143256006  
 01323 336060234647  
 01324 706043464647  
 01325 603162602163  
 01326 604346232163  
 01327 314645600400  
 01330 010233606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

PR

ORG 67  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 67  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

4026 FT 51

BCD TAPE CHECK IN READING RECORD FROM TAPE 2, FILE 6. COPY LOOP

BCD IS AT LOCATION 4012.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

A

END

1  
1

TD

ORG 68

00104 0 01303 0 01350 00104  
01303 3 00000 0 00104 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527606321  
01317 276321276051  
01320 252346512460  
01321 265146446063  
01322 214725600473  
01323 602631432560  
01324 023360602346  
01325 477060434646  
01326 476031626021  
01327 636043462321  
01330 633146456004  
01331 000207336060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 68  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 68  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
4054 FT 51

BCD TAPE CHECK IN READING TAGTAG RECORD FROM TAPE 4, FILE 2. CO

BCD PY LOOP IS AT LOCATION 4027.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1166

1  
1

ORG 69

00105 0 01303 0 01350 00105  
 01303 3 00000 0 00105 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527602446  
 01317 632127605125  
 01320 234651246026  
 01321 514644606321  
 01322 472560037360  
 01323 263143256001  
 01324 336060234647  
 01325 706043464647  
 01326 603162602163  
 01327 604346232163  
 01330 314645600401  
 01331 010633606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

TD

A

FORCE NEW RECORD

ORG 69 FORCE NEW RECORD  
 HTR X-1,0,LOCREC CARD FOR DE  
 ORG LOCREC  
 TXH 69 4155 FT 34  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

BCD TAPE CHECK IN READING DOTAG RECORD FROM TAPE 3, FILE 1. COP

BCD Y LOOP IS AT LOCATION 4116.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END



```

1          ORG 70
1          00106      00106
          00106  0 01303 0 01350
                    01303
TD 01303  3 00000 0 00106
    01304  0 07400 4 00740
    01305  0 01244 0 01237
    01306  0 07400 4 00740
    01307  0 01351 0 01311
    01310  0 02000 0 00221
    01311  606060606060 PR
    01312  606060606060
    01313  314523465151
    01314  252363605125
    01315  234651246063
    01316  214725600273
    01317  602631432560
    01320  073360605125
    01321  234651246031
    01322  626002606646
    01323  512462736025
    01324  212330603162
    01325  605125234651
    01326  246023466445
    01327  636046266026
    01330  314325600633
    01331  606051252346
    01332  512460302162
    01333  602225254560
    01334  606060606060
    01335  606060606060
    01336  606060606060
    01337  512521246006
    01340  606331442562
    01341  602145246026
    01342  213143252460
    01343  252123306063
    01344  314425606346
    01345  602631452460
    01346  633025606646
    01347  512462602550
    01350  642143336060
    01351  0 00000 0 00000 X
                    00000

```

```

FORCE NEW RECORD
ORG 70
HTR X-1,0,LOCREC
ORG LOCREC
TXH 70
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+32
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
6744 FT 41

```

BCD INCORRECT RECORD TAPE 2, FILE 7. RECORD IS 2 WORDS, EACH IS

BCD RECORD COUNT OF FILE 6. RECORD HAS BEEN

BCD READ 6 TIMES AND FAILED EACH TIME TO FIND THE WORDS EQUAL.

A

END

```

1
1
    ORG 71
00107 0 01303 0 01350 00107
    01303
TD 01303 3 00000 0 00107
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01351 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 632147256023
01314 302523426031
01315 456051252124
01316 314527602446
01317 632127605125
01320 234651246026
01321 514644606321
01322 472560027360
01323 263143256006
01324 336060234647
01325 706043464647
01326 603162602163
01327 604346232163
01330 314645600607
01331 030033606060
01332 606060606060
01333 606060606060
01334 606060606060
01335 606060606060
01336 606060606060
01337 263165256021
01340 636325444763
01341 626030216525
01342 602225254560
01343 442124256063
01344 466051252124
01345 606330316260
01346 512523465124
01347 602346515125
01350 236343703360
01351 0 00000 0 00000 X
    00000
A

```

```

FORCE NEW RECORD
ORG 71
HTR X-1,0,LOCREC
ORG LOCREC
TXH 71
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+32
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
6767 FT 39

```

BCD TAPE CHECK IN READING DOTAG RECORD FROM TAPE 2, FILE 6. COP

BCD Y LOOP IS AT LOCATION 6730.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1  
TD

	ORG 72			00110
	00110	0	01303	0 01413
				01303
	01303	3	00000	0 00110
	01304	0	07400	4 00740
	01305	0	01244	0 01237
	01306	0	07400	4 00740
	01307	0	01414	0 01311
	01310	0	02000	0 00221
	01311	606060606060		PR
	01312	606060606060		
	01313	632147256023		
	01314	302523426031		
	01315	456051252124		
	01316	314527602446		
	01317	632127605125		
	01320	234651246026		
	01321	514644606321		
	01322	472560037360		
	01323	263143256001		
	01324	336060512523		
	01325	465124602346		
	01326	456321314562		
	01327	602160456444		
	01330	222551604626		
	01331	601160664651		
	01332	246025456351		
	01333	312562336060		
	01334	606060606060		
	01335	606060606060		
	01336	606060606060		
	01337	234647706043		
	01340	464647602163		
	01341	604346232163		
	01342	314645600700		
	01343	040360512521		
	01344	246260464543		
	01345	706026315162		
	01346	636021452460		
	01347	622523464524		
	01350	606646512460		
	01351	462660252123		
	01352	306025456351		
	01353	707360234647		
	01354	706021636043		
	01355	462321633146		
	01356	456007000504		
	01357	602346473125		
	01360	626060606060		
	01361	606060606060		
	01362	606060606060		
	01363	466330255160		
	01364	076066465124		

FORCE NEW RECORD

ORG 72  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 72  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+67  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

7070 FT 36

BCD TAPE CHECK IN READING DOTAG RECORD FROM TAPE 3, FILE 1. REC

BCD ORD CONTAINS A NUMBER OF 9 WORD ENTRIES.

BCD COPY LOOP AT LOCATION 7043 READS ONLY FIRST AND SECOND WORD

BCD OF EACH ENTRY, COPY AT LOCATION 7054 COPIES

BCD OTHER 7 WORDS INTO ERASABLE STORAGE AND RETURNS TO 7043 FOR

01365 626031456346  
 01366 602551216221  
 01367 224325606263  
 01370 465121272560  
 01371 214524605125  
 01372 636451456260  
 01373 634660070004  
 01374 036026465160  
 01375 452567636025  
 01376 456351703360  
 01377 602631652560  
 01400 216363254447  
 01401 636260302165  
 01402 256022252545  
 01403 604421242560  
 01404 606060606060  
 01405 606060606060  
 01406 606060606060  
 01407 634660512521  
 01410 246063303162  
 01411 605125234651  
 01412 246023465151  
 01413 252363437033  
 01414 0 00000 0 00000 X

A

00000

BCD NEXT ENTRY. FIVE ATTEMPTS HAVE BEEN MADE

BCD 5TO READ THIS RECORD CORRECTLY.

END

1  
1  
TD

ORG 73

00111	0	01303	0	00111	01554
				01303	
01303	3	00000	0	00111	
01304	0	07400	4	00740	
01305	0	01244	0	01237	
01306	-0	53400	4	01232	
01307	0	50000	0	07125	
01310	0	34000	4	01514	C
01311	0	02000	0	01313	
01312	0	02000	0	01454	
01313	1	00003	4	01314	A
01314	-3	00017	4	01310	B
01315	0	07400	4	00740	
01316	0	01454	0	01320	
01317	0	00000	0	01472	
01320	60606060606060				ER
01321	60606060606060				
01322	434623216331				
01323	464560462660				
01324	255151465173				
01325	606630312330				
01326	603021626022				
01327	252545604751				
01330	314563252473				
01331	603021626023				
01332	216462252460				
01333	243121274546				
01334	626331236051				
01335	252346512460				
01336	456444222551				
01337	600703606060				
01340	606060606060				
01341	606060606060				
01342	606060606060				
01343	606060606060				
01344	606060606060				
01345	606060606060				
01346	634660222560				
01347	512521246031				
01350	453360606330				
01351	316260512523				
01352	465124602346				
01353	444721512562				
01354	606330256031				
01355	242545633126				
01356	312321633146				
01357	456066465124				
01360	604626602160				
01361	632147256051				
01362	252346512473				
01363	604346232163				
01364	314645600701				

FORCE NEW RECORD  
 ORG 73  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 73  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 LXD ZERO,4  
 CLA 3669  
 CAS TABLE,4  
 TRA A  
 TRA HAVE  
 TXI B,4,3  
 TXL C,4,15  
 TSX PRINT,4  
 HTR ER,0,ER+92  
 HTR D  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 7123 FT 27  
 7125 OCTAL

BCD LOCATION OF ERROR, WHICH HAS BEEN PRINTED, HAS CAUSED DIAGNO

BCD STIC RECORD NUMBER 73

BCD TO BE READ IN. THIS RECORD COMPARES THE IDENTIFICATION WORD

BCD OF A TAPE RECORD, LOCATION 7125, TO A LIST

01365 020573606346  
 01366 602160433162  
 01367 636060606060  
 01370 606060606060  
 01371 606060606060  
 01372 462660066047  
 01373 466262312243  
 01374 256063214725  
 01375 603124254563  
 01376 312631232163  
 01377 314645606646  
 01400 512462736022  
 01401 646360633025  
 01402 606225215123  
 01403 306030216260  
 01404 262131432524  
 01405 336060632122  
 01406 432560312425  
 01407 456331263123  
 01410 216331464560  
 01411 664651246260  
 01412 606060606060  
 01413 606060606060  
 01414 606060606060  
 01415 606060606060  
 01416 215125603145  
 01417 600104060373  
 01420 600104060360  
 01421 474364626003  
 01422 736025632333  
 01423 606047512562  
 01424 626062632151  
 01425 636031266070  
 01426 466460663162  
 01427 306063466051  
 01430 256263465125  
 01431 604421233031  
 01432 452560634660  
 01433 234645243163  
 01434 314645603145  
 01435 606630312330  
 01436 606060606060  
 01437 606060606060  
 01440 606060606060  
 01441 606060606060  
 01442 255151465160  
 01443 462323645151  
 01444 252433606060  
 01445 606060606060  
 01446 606060606060  
 01447 606060606060  
 01450 606060606060  
 01451 606060606060  
 01452 606060606060

BCD OF 6 POSSIBLE TAPE IDENTIFICATION WORDS, BUT THE SEARCH HAS

BCD FAILED. TABLE IDENTIFICATION WORDS

BCD ARE IN 1463, 1463 PLUS 3, ETC. PRESS START IF YOU WISH TO R

BCD ESTORE MACHINE TO CONDITION IN WHICH

BCD ERROR OCCURRED.

01453	606060606060			
01454	0 56000 4.01512	HAVE	LDQ	TABLE-2,4
01455	-0 50000 0 01522		CAL	PR1
01456	-0 76300 0 00014		LGL	12
01457	0 60200 0 01522		SLW	PR1
01460	-0 76300 0 00030		LGL	24
01461	0 56000 0 01523		LDQ	PR2
01462	-0 76300 0 00014		LGL	12
01463	0 60200 0 01523		SLW	PR2
01464	-0 50000 4 01513		CAL	TABLE-1,4
01465	0 56000 0 01531		LDQ	PR3
01466	-0 76300 0 00030		LGL	24
01467	0 60200 0 01531		SLW	PR3
01470	0 07400 4 00740		TSX	PRINT,4
01471	0 01555 0 01515		HTR	PR,0,PR+32
01472	0 02000 0 00221	D	TRA	DIGRTN
01473	264651652143		BCD	1FORVAL
01474	606060606011		BCD	1 9
01475	0 00000 0 00006		HTR	6
01476	264651652151		BCD	1FORVAR
01477	606060600100		BCD	1 10
01500	0 00000 0 00005		HTR	5
01501	264651632127		BCD	1FORTAG
01502	606060600101		BCD	1 11
01503	0 00000 0 00004		HTR	4
01504	606351212460		BCD	1 TRAD
01505	606060606007		BCD	1 7
01506	0 00000 0 00003		HTR	3
01507	606331262746		BCD	1 TIFGO
01510	606060606006		BCD	1 6
01511	0 00000 0 00002		HTR	2
01512	606324466060		BCD	1 TDO
01513	606060606010		BCD	1 8
01514	0 00000 0 00001	TABLE	HTR	1
01515	606060606060	PR	BCD	2
01516	606060606060			
01517	632147256023		BCD	3TAPE CHECK IN READ
01520	302523426031			
01521	456051252124			
01522	606031452760	PR1	BCD	1 ING
01523	605160606060	PR2	BCD	1 R
01524	252346512473		BCD	5RECORD, TAPE 2, FILE 5, RECORD
01525	606321472560			
01526	027360263143			
01527	256005736051			
01530	252346512460			
01531	336060236060	PR3	BCD	1. C
01532	464770604346		BCD	90PY LOOP IS AT LOCATION 7066.
01533	464760316260			
01534	216360434623			
01535	216331464560			
01536	070006063360			
01537	606060606060			
01540	606060606060			

NUMBER OF RECORD IN FILE 5  
IDENTIFICATION IN RECORD





1  
1

ORG 74

00112 0 01303 0 01425  
01303

TD 01303 3 00000 0 00112  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01426 0 01311  
01310 0 02000 0 00221  
01311 606060606060  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560023360  
01322 602551514651  
01323 602330252342  
01324 314527603162  
01325 602163604346  
01326 232163314645  
01327 600604736022  
01330 646360633025  
01331 512560215125  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 036023464770  
01340 604346464762  
01341 606630312330  
01342 606462256063  
01343 303162602330  
01344 252342314527  
01345 336060434623  
01346 216331464560  
01347 030060634660  
01350 512521246063  
01351 302560016066  
01352 465124605125  
01353 234651246031  
01354 456026314325  
01355 600773606060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 434623216331  
01364 464560040360

FORCE NEW RECORD  
ORG 74  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 74  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+77  
TRA DIGRTN  
BCD 2

74 FT 56

PR

BCD TAPE CHECK IN READING RECORD FROM TAPE 2. ERROR CHECKING IS

BCD AT LOCATION 64, BUT THERE ARE

BCD 3 COPY LOOPS WHICH USE THIS CHECKING. LOCATION 30 TO READ T

BCD HE 1 WORD RECORD IN FILE 7,

BCD LOCATION 43 TO READ FORTAG, THE 11TH RECORD IN FILE 5, OR LO



1  
1

ORG 75

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

00113 0 01303 0 01350  
 01303  
 TD 01303 3 00000 0 00113  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527606331  
 01317 262746605125  
 01320 234651246026  
 01321 514644606321  
 01322 472560027360  
 01323 263143256005  
 01324 736051252346  
 01325 512460063360  
 01326 602346477060  
 01327 434646476031  
 01330 626021636043  
 01331 462321633146  
 01332 456003020433  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

ORG 75  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 75  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

350 FT 58

BCD TAPE CHECK IN READING TIFGO RECORD FROM TAPE 2, FILE 5, RECO

BCD RD 6. COPY LOOP IS AT LOCATION 324.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1  
1  
ORG 76  
00114 0 01303 0 01350 00114  
01303 3 00000 0 00114 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527606351  
01317 212460512523  
01320 465124602651  
01321 464460632147  
01322 256002736026  
01323 314325600573  
01324 605125234651  
01325 246007336060  
01326 234647706043  
01327 464647603162  
01330 602163604346  
01331 232163314645  
01332 600305023360  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

TD

A

FORCE NEW RECORD  
ORG 76  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 76  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
375 FT 58

BCD TAPE CHECK IN READING TRAD RECORD FROM TAPE 2, FILE 5, RECOR

BCD D 7. COPY LOOP IS AT LOCATION 352.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

ORG 77

00115 0 01303 0 00115  
 01303 3 00000 0 00115  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527606330  
 01317 256026315162  
 01320 636066465124  
 01321 604626602631  
 01322 432560017360  
 01323 632147256004  
 01324 336060234647  
 01325 706043464647  
 01326 603162602163  
 01327 604346232163  
 01330 314645600400  
 01331 013360606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 464525606646  
 01347 512460234651  
 01350 512523634370  
 01351 0 00000 0 00000 X  
 00000

TD

PR

A

FORCE NEW RECORD

ORG 77  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 77  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

410 FT 58

BCD TAPE CHECK IN READING THE FIRST WORD OF FILE 1, TAPE 4. COP

BCD Y LOOP IS AT LOCATION 401.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS ONE WORD CORRECTLY

END

1  
1

ORG 78

TD

00116 0 01303 0 00116 01350  
 01303 3 00000 0 00116 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527606351  
 01317 214325656051  
 01320 252346512460  
 01321 265146446063  
 01322 214725600473  
 01323 602631432560  
 01324 017360512523  
 01325 465124600133  
 01326 606023464770  
 01327 604346464760  
 01330 316260216360  
 01331 434623216331  
 01332 464560040000  
 01333 336060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

A

FORCE NEW RECORD

ORG 78  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 78  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

430 FT 58

BCD TAPE CHECK IN READING TRALEV RECORD FROM TAPE 4, FILE 1, REC

BCD ORD 1. COPY LOOP IS AT LOCATION 400.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1  
ORG 79  
00117 0 01303 0 01350 00117  
01303 3 00000 0 00117 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527606351  
01317 214325656051  
01320 252346512460  
01321 265146446063  
01322 214725600473  
01323 602631432560  
01324 017360512523  
01325 465124600233  
01326 606023464770  
01327 604346464760  
01330 316260216360  
01331 434623216331  
01332 464560040302  
01333 336060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 79  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 79  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
446 FT 58

BCD TAPE CHECK IN READING TRALEV RECORD FROM TAPE 4, FILE 1, REC

BCD ORD 2. COPY LOOP IS AT LOCATION 432.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1  
1

TD

ORG 80  
 00120 0 01303 0 00120  
 01303  
 01303 3 00000 0 00120  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527602331  
 01317 636051252346  
 01320 512460265146  
 01321 446063214725  
 01322 600233602631  
 01323 432560023360  
 01324 602346477060  
 01325 434646476031  
 01326 626021636043  
 01327 462321633146  
 01330 456005000633  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

ORG 80  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 80 510 FT 56  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

BCD TAPE CHECK IN READING CIT RECORD FROM TAPE 2. FILE 2. COPY

BCD LOOP IS AT LOCATION 506.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

A

END





1  
1

	ORG 82	00122	
	00122	0 01303 0	01353
			01303
TD	01303	3 00000 0	00122
	01304	0 07400 4	00740
	01305	0 01244 0	01237
	01306	0 07400 4	00740
	01307	0 01354 0	01311
	01310	0 02000 0	00221
	01311	606060606060	PR
	01312	606060606060	
	01313	632147256023	
	01314	302523426031	
	01315	456051252124	
	01316	314527602160	
	01317	512523465124	
	01320	602651464460	
	01321	633025606331	
	01322	262746602631	
	01323	432533606063	
	01324	303162603162	
	01325	606330256010	
	01326	633060263143	
	01327	256046266063	
	01330	214725600233	
	01331	606023464770	
	01332	604346464760	
	01333	316260216360	
	01334	606060606060	
	01335	606060606060	
	01336	606060606060	
	01337	434623216331	
	01340	464560060504	
	01341	336060263165	
	01342	256021636325	
	01343	444763626030	
	01344	216525602225	
	01345	254560442124	
	01346	256063466051	
	01347	252124606330	
	01350	316260512523	
	01351	465124602346	
	01352	515125236343	
	01353	703360606060	
A	01354	0 00000 0 00000 X	00000

FORCE NEW RECORD

ORG 82  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 82  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+35  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

674 FT 60

BCD TAPE CHECK IN READING A RECORD FROM THE TIFGO FILE. THIS IS

BCD THE 8TH FILE OF TAPE 2. COPY LOOP IS AT

BCD LOCATION 654. FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS REC

BCD 30RD CORRECTLY.

END

1  
1  
TD  
A

	ORG 83			
	00123	0	01303	0 00123
				01355
				01303
	01303	3	00000	0 00123
	01304	0	07400	4 00740
	01305	0	01244	0 01237
	01306	0	07400	4 00740
	01307	0	01356	0 01311
	01310	0	02000	0 00221
	01311	606060606060		PR
	01312	606060606060		
	01313	632147256023		
	01314	302523426031		
	01315	456051252124		
	01316	314527602160		
	01317	512523465124		
	01320	602651464460		
	01321	632147256003		
	01322	736026314325		
	01323	600133606063		
	01324	303162602631		
	01325	432560316260		
	01326	216044255127		
	01327	256046266063		
	01330	302560234644		
	01331	472131436021		
	01332	452460234644		
	01333	472446602631		
	01334	432562336060		
	01335	606060606060		
	01336	606060606060		
	01337	234647706043		
	01340	464647603162		
	01341	602163604346		
	01342	232163314645		
	01343	600700003360		
	01344	602631652560		
	01345	216363254447		
	01346	636260302165		
	01347	256022252545		
	01350	604421242560		
	01351	634660512521		
	01352	246063303162		
	01353	605125234651		
	01354	246023465151		
	01355	252363437033		
	01356	0 00000	0 00000	X
			00000	

FORCE NEW RECORD  
 ORG 83  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 83  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+37  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 720 FT 60

BCD TAPE CHECK IN READING A RECORD FROM TAPE 3, FILE 1. THIS FI

BCD LE IS A MERGE OF THE COMPAIL AND COMPDO FILES.

BCD COPY LOOP IS AT LOCATION 700. FIVE ATTEMPTS HAVE BEEN MADE

BCD 5TO READ THIS RECORD CORRECTLY.

END



1  
1  
ORG 85  
00125 0 01303 0 00125  
01303 3 00000 0 00125  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527602331  
01317 636051252346  
01320 512473606321  
01321 472560047360  
01322 263143256001  
01323 336060234647  
01324 706043464647  
01325 603162602163  
01326 604346232163  
01327 314645600302  
01330 073360606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 85 FORCE NEW RECORD  
HTR X-1,0,LOCREC CARD FOR DE  
ORG LOCREC  
TXH 85 350 FT 62  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

BCD TAPE CHECK IN READING CIT RECORD, TAPE 4, FILE 1. COPY LOOP

BCD IS AT LOCATION 327.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A



1  
1

00127 0 01303 0 00127  
 01303 3 00000 0 00127  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527606351  
 01317 212460512523  
 01320 465124602651  
 01321 464460632147  
 01322 256002736026  
 01323 314325600573  
 01324 605125234651  
 01325 246007336060  
 01326 234647706043  
 01327 464647603162  
 01330 602163604346  
 01331 232163314645  
 01332 600505063360  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

TD

A

FORCE NEW RECORD

ORG 87  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 87  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

553 FT 62

BCD TAPE CHECK IN READING TRAD RECORD FROM TAPE 2, FILE 5, RECOR

BCD D 7. COPY LOOP IS AT LOCATION 556.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

TD

ORG 88  
 00130 0 01303 0 01350  
 01303 3 00000 0 00130  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527602651  
 01317 256360512523  
 01320 465124602651  
 01321 464460632147  
 01322 256002736026  
 01323 314325600573  
 01324 605125234651  
 01325 246001023360  
 01326 602346477060  
 01327 434646476031  
 01330 626021636043  
 01331 462321633146  
 01332 456007020133  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

PR

FORCE NEW RECORD  
 ORG 88  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 88  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 716 FT 62

BCD TAPE CHECK IN READING FRET RECORD FROM TAPE 2, FILE 5, RECOR

BCD D 12. COPY LOOP IS AT LOCATION 721.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A



1  
1  
ORG 89  
00131  
00131 0 01303 0 01352  
01303  
TD 01303 3 00000 0 00131  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01353 0 01313  
01310 0 50000 0 01233  
01311 0 62200 0 00000  
01312 0 02000 0 00221  
01313 606060606060 PR  
01314 606060606060  
01315 632147256023  
01316 302523426031  
01317 456051252124  
01320 314527602331  
01321 636051252346  
01322 512473606321  
01323 472560047360  
01324 263143256001  
01325 336060234647  
01326 706043464647  
01327 603162602163  
01330 604346232163  
01331 314645600100  
01332 020633606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 606060606060  
01340 606060606060  
01341 263165256021  
01342 636325444763  
01343 626030216525  
01344 602225254560  
01345 442124256063  
01346 466051252124  
01347 606330316260  
01350 512523465124  
01351 602346515125  
01352 236343703360  
01353 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 89  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 89  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
CLA DECONE  
STD 0  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1023 FT 64

SET CONTROL FOR BST

BCD TAPE CHECK IN READING CIT RECORD, TAPE 4, FILE 1. COPY LOOP

BCD IS AT LOCATION 1026.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

TD

A

ORG 90  
 00132 0 01303 0 01350  
 01303 3 00000 0 00132  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527602446  
 01317 632127605125  
 01320 234651247360  
 01321 632147256002  
 01322 736026314325  
 01323 600633606023  
 01324 464770604346  
 01325 464760316260  
 01326 216360434623  
 01327 216331464560  
 01330 010200003360  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

PR

FORCE NEW RECORD  
 ORG 90  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 90  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 1175 FT 62

BCD TAPE CHECK IN READING DOTAG RECORD, TAPE 2, FILE 6. COPY LO

BCD OP IS AT LOCATION 1200.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1  
ORG 91  
00133 0 01303 0 00133  
01303 3 00000 0 00133  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560023360  
01322 602346477060  
01323 434646476031  
01324 626021636043  
01325 462321633146  
01326 456003030033  
01327 606060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD

ORG 91  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 91  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

327 FT 86

BCD TAPE CHECK IN READING RECORD FROM TAPE 2. COPY LOOP IS AT L

BCD OCATION 330.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1  
1

TD

A

ORG 92 . 00134  
 00134 0 01303 0 01350  
 01303 3 00000 0 00134  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527605125  
 01317 234651246026  
 01320 514644606321  
 01321 472560033360  
 01322 602346477060  
 01323 434646476031  
 01324 626021636043  
 01325 462321633146  
 01326 456003020533  
 01327 606060606060  
 01330 606060606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

PR

FORCE NEW RECORD

ORG 92  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 92  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

437 FT 84

BCD TAPE CHECK IN READING RECORD FROM TAPE 3. COPY LOOP IS AT L

BCD OCATION 325.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

105

1  
1  
TD  
A

ORG 93

00135 0 01303 0 00135  
01303 3 00000 0 00135  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560037360  
01322 263143256003  
01323 336060234647  
01324 706043464647  
01325 603162602163  
01326 604346232163  
01327 314645600102  
01330 040133606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 93  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 93  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1240 FT 75

BCD TAPE CHECK IN READING RECORD FROM TAPE 3, FILE 3. COPY LOOP

BCD IS AT LOCATION 1241.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

TD

A

ORG 94  
 00136 0 01303 0 01350 00136  
 01303 3 00000 0 01336 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527605125  
 01317 234651246026  
 01320 514644606321  
 01321 472560043360  
 01322 602346477060  
 01323 434646476031  
 01324 626021636043  
 01325 462321633146  
 01326 456003050304  
 01327 336060606060  
 01330 606060606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

ORG 94  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 94  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

3540 FT 88

BCD TAPE CHECK IN READING RECORD FROM TAPE 4. COPY LOOP IS AT L

BCD OCATION 3534.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1  
ORG 95  
00137 0 01303 0 00137  
01303 3 00000 0 00137  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560043360  
01322 602346477060  
01323 434646476031  
01324 626021636043  
01325 462321633146  
01326 456004040201  
01327 336060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 95  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 95  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
4453 FT 88

BCD TAPE CHECK IN READING RECORD FROM TAPE 4. COPY LOOP IS AT L

BCD OCATION 4421.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1  
1

ORG 96

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00140 0 01303 0 01350 00140  
 01303 3 00000 0 00140 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527605125  
 01317 234651246026  
 01320 514644606321  
 01321 472560033360  
 01322 602346477060  
 01323 434646476031  
 01324 626021636043  
 01325 462321633146  
 01326 456003023360  
 01327 606060606060  
 01330 606060606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

ORG 96  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 96  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

46 FT 90

BCD TAPE CHECK IN READING RECORD FROM TAPE 3. COPY LOOP IS AT L

BCD OCATION 32.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A



1  
1  
ORG 95  
00137 0 01303 0 00137  
01303 3 00000 0 00137  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560043360  
01322 602346477060  
01323 434646476031  
01324 626021636043  
01325 462321633146  
01326 456004040201  
01327 336060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
A 00000

FORCE NEW RECORD  
ORG 95  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 95  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
4453 FT 88

BCD TAPE CHECK IN READING RECORD FROM TAPE 4. COPY LOOP IS AT L

BCD OCATION 4421.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1  
ORG 96  
00140 0 01303 0 00140 01350  
01303 3 00000 0 00140 01303  
TD 01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560033360  
01322 602346477060  
01323 434646476031  
01324 626021636043  
01325 462321633146  
01326 456003023360  
01327 606060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 96  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 96  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
46 FT 90

BCD TAPE CHECK IN READING RECORD FROM TAPE 3. COPY LOOP IS AT L

BCD OCATION 32.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

```

1
1
    ORG 97
    00141 0 01303 0 00141
    01303 3 00000 0 00141
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01354 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 632147256023
    01314 302523426031
    01315 456051252124
    01316 314527605125
    01317 234651246026
    01320 514644606321
    01321 472560023360
    01322 602346477060
    01323 434646476031
    01324 626021636043
    01325 462321633146
    01326 456003000460
    01327 214524605125
    01330 212462602651
    01331 464460263143
    01332 256003736060
    01333 606060606060
    01334 606060606060
    01335 606060606060
    01336 606060606060
    01337 047360057360
    01340 077360116046
    01341 516001003360
    01342 602631652560
    01343 216363254447
    01344 636260302165
    01345 256022252545
    01346 604421242560
    01347 634660512521
    01350 246063303162
    01351 605125234651
    01352 246023465151
    01353 252363437033
    01354 0 00000 0 00000 X
          00000

```

```

FORCE NEW RECORD
ORG 97
HTR X-1,0,LOCREC
ORG LOCREC
TXH 97
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+35
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
330 FT 90

```

BCD TAPE CHECK IN READING RECORD FROM TAPE 2. COPY LOOP IS AT L

BCD OCATION 304 AND READS FROM FILE 3,

BCD 4, 5, 7, 9 OR 10. FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS

BCD 3 RECORD CORRECTLY.

END

A

```

1
1
    ORG 98
    00142 0 01303 0 01355
    01303 3 00000 0 00142
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01356 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 632147256023
    01314 302523426031
    01315 456051252124
    01316 314527606264
    01317 225146646331
    01320 452560242526
    01321 314531633146
    01322 456063212243
    01323 256026514644
    01324 606321472560
    01325 027360512523
    01326 465124600273
    01327 602631432560
    01330 053360606060
    01331 606060606060
    01332 606060606060
    01333 606060606060
    01334 606060606060
    01335 606060606060
    01336 606060606060
    01337 234647706043
    01340 464647603162
    01341 602163604346
    01342 232163314645
    01343 600103053360
    01344 602631652560
    01345 216363254447
    01346 636260302165
    01347 256022252545
    01350 604421242560
    01351 634660512521
    01352 246063303162
    01353 605125234651
    01354 246023465151
    01355 252363437033
    01356 0 00000 0 00000 X
           00000

```

```

FORCE NEW RECORD
ORG 98
HTR X-1,0,LOCREC
ORG LOCREC
TXH 98
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+37
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE

```

```

141 FT 92

```

```

BCD TAPE CHECK IN READING SUBROUTINE DEFINITION TABLE FROM TAPE

```

```

BCD 2, RECORD 2, FILE 5.

```

```

BCD COPY LOOP IS AT LOCATION 135. FIVE ATTEMPTS HAVE BEEN MADE

```

```

BCD 5TO READ THIS RECORD CORRECTLY.

```

```

END

```

```

A

```

1  
1  
TD  
A

ORG 99	00143	0	01303	0	01343	00143
						01303
	01303	3	00000	0	00143	
	01304	0	07400	4	00740	
	01305	0	01244	0	01237	
	01306	0	07400	4	00740	
	01307	0	01344	0	01311	
	01310	0	02000	0	00221	
	01311	606060606060				PR
	01312	606060606060				
	01313	632147256023				
	01314	302523426031				
	01315	456051252124				
	01316	314527602331				
	01317	636063212243				
	01320	257360632147				
	01321	256003336060				
	01322	234647706043				
	01323	464647603162				
	01324	602163604346				
	01325	232163314645				
	01326	600305023360				
	01327	602631652560				
	01330	216363254447				
	01331	636260302165				
	01332	256022252545				
	01333	604421242560				
	01334	634660606060				
	01335	606060606060				
	01336	606060606060				
	01337	512521246063				
	01340	303162605125				
	01341	234651246023				
	01342	465151252363				
	01343	437033606060				
	01344	0	00000	0	00000	X
					00000	

FORCE NEW RECORD  
 ORG 99  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 99  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+27  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 356 FT 92

BCD TAPE CHECK IN READING CIT TABLE, TAPE 3. COPY LOOP IS AT LO

BCD CATION 352. FIVE ATTEMPTS HAVE BEEN MADE TO

BCD SREAD THIS RECORD CORRECTLY.

END

1  
1  
ORG 100  
00144 0 01303 0 01350 00144  
01303 3 00000 0 00144 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527604647  
01317 606321224325  
01320 602651464460  
01321 632147256002  
01322 736026314325  
01323 600633606023  
01324 464770604346  
01325 464760316260  
01326 216360434623  
01327 216331464560  
01330 050506336060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 100  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 100  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
562 FT 92

BCD TAPE CHECK IN READING OP TABLE FROM TAPE 2, FILE 6. COPY LO

BCD OP IS AT LOCATION 556.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

1  
1  
ORG 101  
00145 0 01303 0 00145  
01303 3 00000 0 00145  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01344 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527602331  
01317 636063212243  
01320 257360632147  
01321 256003336060  
01322 234647706043  
01323 464647603162  
01324 602163604346  
01325 232163314645  
01326 600706013360  
01327 602631652560  
01330 216363254447  
01331 636260302165  
01332 256022252545  
01333 604421242560  
01334 634660606060  
01335 606060606060  
01336 606060606060  
01337 512521246063  
01340 303162605125  
01341 234651246023  
01342 465151252363  
01343 437033606060  
01344 0 00000 0 00000 X  
A 00000

FORCE NEW RECORD  
ORG 101  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 101  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+27  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
765 FT 92

BCD TAPE CHECK IN READING CIT TABLE, TAPE 3. COPY LOOP IS AT LO

BCD CATION 761. FIVE ATTEMPTS HAVE BEEN MADE TO

BCD 5READ THIS RECORD CORRECTLY.

END

1  
1

TD

00146 0 01303 0 01350 00146  
 01303 3 00000 0 01350 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527603046  
 01317 432151276063  
 01320 212243256026  
 01321 514644606321  
 01322 472560027360  
 01323 512523465124  
 01324 600473602631  
 01325 432560053360  
 01326 602346477060  
 01327 434646476031  
 01330 626021636043  
 01331 462321633146  
 01332 456001010301  
 01333 336060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

A

FORCE NEW RECORD

ORG 102 FORCE NEW RECORD  
 HTR X-1,0,LOCREC CARD FOR DE  
 ORG LOCREC  
 TXH 102 1135 FT 92  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

PR

BCD TAPE CHECK IN READING HOLARG TABLE FROM TAPE 2, RECORD 4, FI

BCD LE 5. COPY LOOP IS AT LOCATION 1131.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END



1  
1  
ORG 103  
00147 0 01303 0 01362  
01303 3 00000 0 00147  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01363 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246026  
01320 514644606321  
01321 472560023360  
01322 602346477060  
01323 434646476031  
01324 626021636043  
01325 462321633146  
01326 456002020033  
01327 606026316525  
01330 602163632544  
01331 476362603021  
01332 652560222525  
01333 456044212425  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 634660512521  
01340 246063303162  
01341 605125234651  
01342 246023465151  
01343 252363437033  
01344 606047514627  
01345 512144602321  
01346 454546636023  
01347 464563314564  
01350 256063466047  
01351 514623256262  
01352 604331626331  
01353 452760632147  
01354 256260264651  
01355 604664634764  
01356 633360606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 103  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 103  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+42  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
245 FT 9

BCD TAPE CHECK IN READING RECORD FROM TAPE 2. COPY LOOP IS AT L

BCD OCATION 220. FIVE ATTEMPTS HAVE BEEN MADE

BCD TO READ THIS RECORD CORRECTLY. PROGRAM CANNOT CONTINUE TO P

BCD ROCESS LISTING TAPES FOR OUTPUT.

A

END

1  
1

TD

ORG 104  
 00150 0 01303 0 01362  
 01303 3 00000 0 00150  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01363 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527605125  
 01317 234651246026  
 01320 514644606321  
 01321 472560023360  
 01322 602346477060  
 01323 434646476031  
 01324 626021636043  
 01325 462321633146  
 01326 456002060533  
 01327 606026316525  
 01330 602163632544  
 01331 476362603021  
 01332 652560222525  
 01333 456044212425  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 634660512521  
 01340 246063303162  
 01341 605125234651  
 01342 246023465151  
 01343 252363437033  
 01344 606047514627  
 01345 512144602321  
 01346 454546636023  
 01347 464563314564  
 01350 256063466047  
 01351 514623256262  
 01352 604331626331  
 01353 452760632147  
 01354 256260264651  
 01355 604664634764  
 01356 633360606060  
 01357 606060606060  
 01360 606060606060  
 01361 606060606060  
 01362 606060606060  
 01363 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

ORG 104  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 104  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+42  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

264 FT 7

BCD TAPE CHECK IN READING RECORD FROM TAPE 2. COPY LOOP IS AT L

BCD OCATION 265. FIVE ATTEMPTS HAVE BEEN MADE

BCD TO READ THIS RECORD CORRECTLY. PROGRAM CANNOT CONTINUE TO P

BCD ROCESS LISTING TAPES FOR OUTPUT.

END

A

127

1  
1  
TD  
ORG 105  
00151 0 01303 0 00151  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01375 0 01311  
01310 0 02000 0 00221  
01311 606060606060  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527606321  
01317 472560512523  
01320 465124604626  
01321 602321512460  
01322 314421272560  
01323 265146446063  
01324 214725600333  
01325 606023464770  
01326 604346464760  
01327 316260216360  
01330 434623216331  
01331 464560030605  
01332 053360606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 633031626062  
01340 634647604421  
01341 706021436246  
01342 602225602464  
01343 256063466021  
01344 456031452346  
01345 515125236360  
01346 512523465124  
01347 606630312330  
01350 602346456321  
01351 314562604446  
01352 512560633021  
01353 456002056066  
01354 465124623360  
01355 606060606060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 263165256021

FORCE NEW RECORD  
ORG 105  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 105  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+52  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
3730 FT 115

PR

BCD TAPE CHECK IN READING TAPE RECORD OF CARD IMAGE FROM TAPE 3.

BCD COPY LOOP IS AT LOCATION 3655.

BCD THIS STOP MAY ALSO BE DUE TO AN INCORRECT RECORD WHICH CONTA

BCD INS MORE THAN 25 WORDS.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

01364 636325444763  
01365 626030216525  
01366 602225254560  
01367 442124256063  
01370 466051252124  
01371 606330316260  
01372 512523465124  
01373 602346515125  
01374 236343703360  
01375 0 00000 0 00000 X

A

00000

END

```

1
1
    ORG 106
00152 0 01303 0 01362
    01303
TD 01303 3 00000 0 00152
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01363 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 632147256023
    01314 302523426031
    01315 456051252124
    01316 314527605125
    01317 234651246026
    01320 514644606321
    01321 472560033360
    01322 602346477060
    01323 434646476031
    01324 626021636043
    01325 462321633146
    01326 456002060333
    01327 606026316525
    01330 602163632544
    01331 476362603021
    01332 652560222525
    01333 456044212425
    01334 606060606060
    01335 606060606060
    01336 606060606060
    01337 634660512521
    01340 246063303162
    01341 605125234651
    01342 246023465151
    01343 252363437033
    01344 606047514627
    01345 512144602321
    01346 454546636023
    01347 464563314564
    01350 256063466047
    01351 514623256262
    01352 604331626331
    01353 452760632147
    01354 256260264651
    01355 604664634764
    01356 633360606060
    01357 606060606060
    01360 606060606060
    01361 606060606060
    01362 606060606060
    01363 0 00000 0 00000 X
          00000

```

```

FORCE NEW RECORD
ORG 106
HTR X-1,0,LOCREC
ORG LOCREC
TXH 106
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+42
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
311 FT 9

```

BCD TAPE CHECK IN READING RECORD FROM TAPE 3. COPY LOOP IS AT L

BCD OCATION 263. FIVE ATTEMPTS HAVE BEEN MADE

BCD TO READ THIS RECORD CORRECTLY. PROGRAM CANNOT CONTINUE TO P

BCD ROCESS LISTING TAPES FOR OUTPUT.

A

END

1  
1

ORG 107

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00153 0 01303 0 01350 00153  
01303 3 00000 0 00153 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527602346  
01317 444446456063  
01320 212243256026  
01321 514644606321  
01322 472560027360  
01323 512523465124  
01324 600373602631  
01325 432560053360  
01326 602346477060  
01327 434646476031  
01330 626021636043  
01331 462321633146  
01332 456004000433  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

ORG 107  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 107  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

410 FT 96

BCD TAPE CHECK IN READING COMMON TABLE FROM TAPE 2, RECORD 3, FI

BCD LE 5. COPY LOOP IS AT LOCATION 404.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

A

```

1
1      ORG 108      00154
00154 0 01303 0 01350
      01303
TD 01303 3 00000 0 00154
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01351 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 632147256023
01314 302523426031
01315 456051252124
01316 314527606264
01317 222425266063
01320 212243256026
01321 514644606321
01322 472560027360
01323 512523465124
01324 600273602631
01325 432560053360
01326 602346477060
01327 434646476031
01330 626021636043
01331 462321633146
01332 456004050433
01333 606060606060
01334 606060606060
01335 606060606060
01336 606060606060
01337 263165256021
01340 636325444763
01341 626030216525
01342 602225254560
01343 442124256063
01344 466051252124
01345 606330316260
01346 512523465124
01347 602346515125
01350 236343703360
01351 0 00000 0 00000 X
      00000
A

```

```

FORCE NEW RECORD
ORG 108      FORCE NEW RECORD
HTR X-1,0,LOCREC  CARD FOR DE
ORG LOCREC
TXH 108      460 FT 98
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+32
TRA DIGRTN
BCD 2
BCD TAPE CHECK IN READING SUBDEF TABLE FROM TAPE 2, RECORD 2, FI
BCD LE 5. COPY LOOP IS AT LOCATION 454.
BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.
END

```

1  
1

ORG 109

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00155 0 01303 0 01350 00155  
 01303 3 00000 0 01350 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 632147256023  
 01314 302523426031  
 01315 456051252124  
 01316 314527602331  
 01317 637360632147  
 01320 256004736031  
 01321 456063302560  
 01322 622523464524  
 01323 604721626260  
 01324 462660233163  
 01325 606321472560  
 01326 512523465124  
 01327 336060234647  
 01330 706043464647  
 01331 603162602163  
 01332 604346232163  
 01333 314645600201  
 01334 073360606060  
 01335 606060606060  
 01336 606060606060  
 01337 263165256021  
 01340 636325444763  
 01341 626030216525  
 01342 602225254560  
 01343 442124256063  
 01344 466051252124  
 01345 606330316260  
 01346 512523465124  
 01347 602346515125  
 01350 236343703360  
 01351 0 00000 0 00000 X  
 00000

PR

ORG 109  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 109  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

223 FT 113

BCD TAPE CHECK IN READING CIT, TAPE 4, IN THE SECOND PASS OF CIT

BCD TAPE RECORD. COPY LOOP IS AT LOCATION 217.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

A

END

113



1  
1  
ORG 110  
00156 0 01303 0 01350  
01303  
TD 01303 3 00000 0 00156  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256023  
01314 302523426031  
01315 456051252124  
01316 314527605125  
01317 234651246046  
01320 266023464447  
01321 314325246031  
01322 456263516423  
01323 633146456260  
01324 265146446063  
01325 214725600433  
01326 606023464770  
01327 604346464760  
01330 316260216360  
01331 434623216331  
01332 464560020501  
01333 336060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263165256021  
01340 636325444763  
01341 626030216525  
01342 602225254560  
01343 442124256063  
01344 466051252124  
01345 606330316260  
01346 512523465124  
01347 602346515125  
01350 236343703360  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 110  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 110 255 FT 103  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

BCD TAPE CHECK IN READING RECORD OF COMPILED INSTRUCTIONS FROM T

BCD APE 4. COPY LOOP IS AT LOCATION 251.

BCD FIVE ATTEMPTS HAVE BEEN MADE TO READ THIS RECORD CORRECTLY.

END

1  
1

TD

ORG 111

00157 0 01303 0 01420 00157  
 01303 3 00000 0 00157 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01421 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256002  
 01314 603162604546  
 01315 636023465151  
 01316 252363437060  
 01317 474662316331  
 01320 464525246063  
 01321 466051252124  
 01322 606331262746  
 01323 606321224325  
 01324 736026314325  
 01325 600573605125  
 01326 234651246006  
 01327 336060633025  
 01330 602646516321  
 01331 276063212243  
 01332 257360512523  
 01333 465124600101  
 01334 736060606060  
 01335 606060606060  
 01336 606060606060  
 01337 302162604164  
 01340 626360222525  
 01341 456066513163  
 01342 632545604645  
 01343 606321472560  
 01344 023360602225  
 01345 273145453145  
 01346 276021636043  
 01347 462321633146  
 01350 456007060473  
 01351 606231676022  
 01352 626360314562  
 01353 635164236331  
 01354 464562602151  
 01355 256027316525  
 01356 456060606060  
 01357 606060606060  
 01360 606060606060  
 01361 606060606060  
 01362 606060606060  
 01363 222526465125  
 01364 606330256051

FORCE NEW RECORD  
 ORG 111 FORCE NEW RECORD  
 HTR X-1,0,LOCREC CARD FOR DE  
 ORG LOCREC  
 TXH 111 1001 FT 24  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+72  
 TRA DIGRTN  
 BCD 2

BCD TAPE 2 IS NOT CORRECTLY POSITIONED TO READ TIFGO TABLE, FILE

BCD 5, RECORD 6. THE FORTAG TABLE, RECORD 11,

BCD HAS JUST BEEN WRITTEN ON TAPE 2. BEGINNING AT LOCATION 764,

BCD SIX BST INSTRUCTIONS ARE GIVEN

BCD BEFORE THE RDS. THE CPY AT 775 SHOWS THAT THIS RECORD IS NO

01365 246233606063  
 01366 302560234770  
 01367 602163600707  
 01370 056062304666  
 01371 626063302163  
 01372 606330316260  
 01373 512523465124  
 01374 603162604546  
 01375 636063312627  
 01376 466074312425  
 01377 456331263123  
 01400 216331464560  
 01401 664651246031  
 01402 456007070405  
 01403 343360606060  
 01404 606060606060  
 01405 606060606060  
 01406 606060606060  
 01407 633025605125  
 01410 234651246031  
 01411 242545633126  
 01412 312321633146  
 01413 456046266063  
 01414 302560632147  
 01415 256031626031  
 01416 456007070407  
 01417 336060606060  
 01420 606060606060  
 01421 0 00000 0 00000 X

BCD T TIFGO (IDENTIFICATION WORD IN 7745).

BCD THE RECORD IDENTIFICATION OF THE TAPE IS IN 7747.

A

00000

END

1  
1

ORG 112

00160	0	01303	0	01346	00160
				01303	
TD	01303	3	00000	0	00160
	01304	0	07400	4	00740
	01305	0	01244	0	01237
	01306	0	07400	4	00740
	01307	0	01347	0	01311
	01310	0	02000	0	00221
	01311	606060606060			PR
	01312	606060606060			
	01313	254524604626			
	01314	605125234651			
	01315	246045466360			
	01316	475146472551			
	01317	437060512521			
	01320	233025247360			
	01321	632147256003			
	01322	736026314325			
	01323	600133606063			
	01324	256263606646			
	01325	512460314560			
	01326	512523465124			
	01327	606230466662			
	01330	606330216360			
	01331	234647706021			
	01332	636060606060			
	01333	606060606060			
	01334	606060606060			
	01335	606060606060			
	01336	606060606060			
	01337	434623216331			
	01340	464560010202			
	01341	606230466443			
	01342	246023216462			
	01343	256025452460			
	01344	462660512523			
	01345	465124606242			
	01346	314733606060			
A	01347	0	00000	0	00000 X
					00000

FORCE NEW RECORD  
 ORG 112  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 112  
 112  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+30  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 123 FT 53  
 124 FT 53

BCD END OF RECORD NOT PROPERLY REACHED, TAPE 3, FILE 1. TEST WO

BCD RD IN RECORD SHOWS THAT COPY AT

BCD BLOCATION 122 SHOULD CAUSE END OF RECORD SKIP.

END

121

1  
1

ORG 113

00161 0 01303 0 00161  
01303

TD 01303 3 00000 0 00161

01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01375 0 01311  
01310 0 02000 0 00221  
01311 606060606060  
01312 606060606060  
01313 255151465160  
01314 314560512521  
01315 243145276063  
01316 302560623145  
01317 274325600260  
01320 664651246051  
01321 252346512460  
01322 265146446063  
01323 214725600273  
01324 602631432560  
01325 073360606321  
01326 472560623046  
01327 644324602225  
01330 604746623163  
01331 314645252460  
01332 212663255160  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 263143256044  
01340 215142736026  
01341 314325600733  
01342 606022252731  
01343 454531452760  
01344 216360060703  
01345 007360636646  
01346 602262636062  
01347 602151256027  
01350 316525457360  
01351 633025456021  
01352 456051632260  
01353 214524606330  
01354 512525602347  
01355 706062336060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 234647706021

PR

FORCE NEW RECORD  
ORG 113  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 113  
113  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+52  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
6736 FT 41  
6737 FT 41

BCD ERROR IN READING THE SINGLE 2 WORD RECORD FROM TAPE 2, FILE

BCD 7. TAPE SHOULD BE POSITIONED AFTER

BCD FILE MARK, FILE 7. BEGINNING AT 6730, TWO BST S ARE GIVEN,

BCD THEN AN RTB AND THREE CPY S.

BCD COPY AT LOCATION 6735 SHOULD CAUSE END OF RECORD SKIP.

01364 636043462321  
01365 633146456006  
01366 070305606230  
01367 466443246023  
01370 216462256025  
01371 452460462660  
01372 512523465124  
01373 606242314733  
01374 606060606060  
01375 0 00000 0 00000 X  
00000

A

END



01365 233060256747  
01366 252363252460  
01367 312425456331  
01370 263123216331  
01371 464573604346  
01372 232163314645  
01373 600701020533  
01374 0 00000 0 00000 X

A

00000

END



1  
1  
TD  
ORG 115  
00163 0 01303 0 01420 00163  
01303 3 00000 0 00163 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01421 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256002  
01314 603162604546  
01315 636023465151  
01316 252363437060  
01317 474662316331  
01320 464525246063  
01321 466051252124  
01322 602646516321  
01323 277360263143  
01324 256005736051  
01325 252346512460  
01326 010133606051  
01327 466463314525  
01330 602163604346  
01331 232163314645  
01332 600301606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 512521246260  
01340 633025600160  
01341 664651246051  
01342 252346512460  
01343 462660263143  
01344 256007606630  
01345 312330603162  
01346 605125234651  
01347 246023466445  
01350 636046266026  
01351 314325600633  
01352 606007603162  
01353 602124242524  
01354 606346606330  
01355 316260234664  
01356 456360214524  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 633025606321  
01364 472560316260

FORCE NEW RECORD  
ORG 115  
HTR X-1,0,LDCREC  
ORG LOCREC  
TXH 115  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+72  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
51 FT 56

BCD TAPE 2 IS NOT CORRECTLY POSITIONED TO READ FORTAG, FILE 5, R

BCD ECORD 11. ROUTINE AT LOCATION 31

BCD READS THE 1 WORD RECORD OF FILE 7 WHICH IS RECORD COUNT OF F

BCD ILE 6. 7 IS ADDED TO THIS COUNT AND

BCD THE TAPE IS BACKSPACED OVER FILE 6, FILE MARK AND THE LAST 4

01365 222123426247  
01366 212325246046  
01367 652551602631  
01370 432560067360  
01371 263143256044  
01372 215142602145  
01373 246063302560  
01374 432162636004  
01375 605125234651  
01376 246260314560  
01377 263143256005  
01400 336060512523  
01401 465124603124  
01402 254563312631  
01403 232163314645  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 314560434623  
01410 216331464560  
01411 020302066062  
01412 304666626063  
01413 302163606330  
01414 316260316260  
01415 454663602646  
01416 516321276051  
01417 252346512433  
01420 606060606060  
01421 0 00000 0 00000 X  
00000

BCD RECORDS IN FILE 5. RECORD IDENTIFICATION

BCD IN LOCATION 2326 SHOWS THAT THIS IS NOT FORTAG RECORD.

END

A

1  
1  
TD  
ORG 116  
00164 0 01303 0 00164  
01303 3 00000 0 00164  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01376 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632147256002  
01314 603162604546  
01315 636023465151  
01316 252363437060  
01317 474662316331  
01320 464525246063  
01321 466051252124  
01322 606331262746  
01323 605125234651  
01324 243360605124  
01325 626043464647  
01326 602163604346  
01327 232163314645  
01330 600300603021  
01331 626062472123  
01332 252460632147  
01333 256002606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 264651662151  
01340 246026514644  
01341 602225273145  
01342 453145276046  
01343 266003512460  
01344 263143256063  
01345 466022252731  
01346 454531452760  
01347 462660633126  
01350 274673602631  
01351 432560057360  
01352 512523465124  
01353 600633606031  
01354 242545633126  
01355 312321633146  
01356 456066465124  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 462660512523  
01364 465124603145

FORCE NEW RECORD  
ORG 116 FORCE NEW RECORD  
HTR X-1,0,LOCREC CARD FOR DE  
ORG LOCREC  
TXH 116 331 FT 58  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+53  
TRA DIGRTN  
BCD 2

BCD TAPE 2 IS NOT CORRECTLY POSITIONED TO READ TIFGO RECORD. RD

BCD S LOOP AT LOCATION 30 HAS SPACED TAPE 2

BCD FORWARD FROM BEGINNING OF 3RD FILE TO BEGINNING OF TIFGO, FI

BCD LE 5, RECORD 6. IDENTIFICATION WORD

BCD OF RECORD IN LOCATION 5471, SHOWS THAT THIS IS NOT TIFGO REC

01365 604346232163  
01366 314645600504  
01367 070173606230.  
01370 466662606330  
01371 216360633031  
01372 626031626045  
01373 466360633126  
01374 274660512523  
01375 465124336060  
01376 0 00000 0 00000 X  
          00000

BCD 10RD.

END

A

1  
1

TD

ORG 117  
 00165 0 01303 0 00165  
 01303 3 00000 0 00165  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01375 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 632147256002  
 01314 603162604546  
 01315 636023465151  
 01316 252363437060  
 01317 474662316331  
 01320 464525246063  
 01321 466051252124  
 01322 606351212473  
 01323 602631432560  
 01324 057360512523  
 01325 465124600733  
 01326 606051252346  
 01327 512460067360  
 01330 633126274673  
 01331 603021626060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 416462636022  
 01340 252545605125  
 01341 212460626423  
 01342 232562622664  
 01343 434370736022  
 01344 646360312425  
 01345 456331263123  
 01346 216331464560  
 01347 664651247360  
 01350 434623216331  
 01351 464560060706  
 01352 067360623046  
 01353 666260633021  
 01354 636045256763  
 01355 605125234651  
 01356 246031626045  
 01357 466360635121  
 01360 243360606060  
 01361 606060606060  
 01362 606060606060  
 01363 234647706043  
 01364 464647603162

FORCE NEW RECORD  
 ORG 117  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 117  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+52  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 357 FT 58

BCD TAPE 2 IS NOT CORRECTLY POSITIONED TO READ TRAD, FILE 5, REC

BCD ORD 7. RECORD 6, TIFGO, HAS

BCD JUST BEEN READ SUCCESSFULLY, BUT IDENTIFICATION WORD, LOCATI

BCD ON 6766, SHOWS THAT NEXT RECORD IS NOT TRAD.

BCD COPY LOOP IS AT LOCATION 352.

01365 602163604346  
01366 232163314645  
01367 600305023360  
01370 606060606060  
01371 606060606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 0 00000 0 00000 X  
00000

A

END



01365 302560312425  
01366 456331263123  
01367 216331464560  
01370 462660633025  
01371 605125234651  
01372 246024462562  
01373 604546636044  
01374 216323306063  
01375 302560256747  
01376 252363252460  
01377 312425456331  
01400 263123216331  
01401 464533606063  
01402 302560514664  
01403 633145256060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 512521243145  
01410 276021604721  
01411 516331236443  
01412 215160512523  
01413 465124603162  
01414 602163604346  
01415 232163314645  
01416 600403056026  
01417 465160633126  
01420 274673604346  
01421 232163314645  
01422 600502056026  
01423 465160635121  
01424 247360465160  
01425 434623216331  
01426 464560060403  
01427 602646516026  
01430 512563336060  
01431 0 00000 0 00000 X  
00000

BCD HE EXPECTED IDENTIFICATION. THE ROUTINE

BCD READING A PARTICULAR RECORD IS AT LOCATION 435 FOR TIFGO, LO

BCD SCATION 525 FOR TRAD, OR LOCATION 643 FOR FRET.

END

A



1  
1  
TD  
A

	ORG 119			00167
	00167	0	01303	0 01442
				01303
TD	01303	3	00000	0 00167
	01304	0	07400	4 00740
	01305	0	01244	0 01237
	01306	0	76200	0 00304
	01307	0	46000	0 01344
	01310	0	70000	0 01257
	01311	-0	75400	0 00000
	01312	0	56000	0 01257
	01313	-0	76300	0 00003
	01314	-0	60200	0 01363
	01315	-0	76300	0 00017
	01316	0	07400	4 00730
	01317	0	60200	0 01364
	01320	0	56000	0 01257
	01321	-0	77300	0 00022
	01322	-0	50000	0 00717
	01323	0	76700	0 00003
	01324	-0	76300	0 00003
	01325	0	60200	0 01365
	01326	0	50000	0 01257
	01327	0	07400	4 00730
	01330	0	60200	0 01366
	01331	0	56000	0 01366
	01332	-0	50000	0 01365
	01333	-0	76300	0 00030
	01334	0	60200	0 01365
	01335	-0	76300	0 00014
	01336	0	56000	0 00717
	01337	-0	76300	0 00030
	01340	0	60200	0 01366
	01341	0	07400	4 00740
	01342	0	01443	0 01345
	01343	0	02000	0 00221
	01344	0	00000	0 00612
	01345	606060606060		
	01346	606060606060		
	01347	632147256002		
	01350	603162604546		
	01351	636023465151		
	01352	252363437060		
	01353	474662316331		
	01354	464525243360		
	01355	602364515125		
	01356	456360263143		
	01357	256005605125		
	01360	234651246031		
	01361	242545633126		
	01362	312321633146		
	01363	456031626000		
A	01364	0 00000	0 00000	

FORCE NEW RECORD  
ORG 119  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 119  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
RDR 4  
LDA AA  
CPY ERAS  
PXD 0,0  
LDQ ERAS  
LGL 3  
ORS A  
LGL 15  
TSX OCTBCD,4  
SLW B  
LDQ ERAS  
RQL 18  
CAL BLANKS  
ALS 3  
LGL 3  
SLW C  
CLA ERAS  
TSX OCTBCD,4  
SLW D  
LDQ D  
CAL C  
LGL 24  
SLW C  
LGL 12  
LDQ BLANKS  
LGL 24  
SLW D  
TSX PRINT,4  
HTR PR,0,PR+62  
TRA DIGRTN  
HTR8612  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

314 FT 90

FIRST OCTAL NUMBER INTO COMMENT

B 23456  
FIX TAG FIELD

B 89101112

8788910

11128888

BCD TAPE 2 IS NOT CORRECTLY POSITIONED. CURRENT FILE 5 RECORD I

BCD 2IDENTIFICATIO

A BCD IN IS 0  
B HTR

A

01365 0 00000 0 00000  
 01366 606060606060  
 01367 606060606060  
 01370 606060606060  
 01371 606060606060  
 01372 606060606060  
 01373 214524602446  
 01374 256260454663  
 01375 604421632330  
 01376 602567472523  
 01377 632524605125  
 01400 234651246031  
 01401 242545633126  
 01402 312321633146  
 01403 456066303123  
 01404 306066216260  
 01405 314560633025  
 01406 602123236444  
 01407 644321634651  
 01410 602145246031  
 01411 626045466360  
 01412 626346512524  
 01413 336060606060  
 01414 606060606060  
 01415 606060606060  
 01416 606060606060  
 01417 633031626062  
 01420 642251466463  
 01421 314525602225  
 01422 273145626021  
 01423 636003000460  
 01424 214524603162  
 01425 606462252460  
 01426 634660512521  
 01427 246031456021  
 01430 457060462660  
 01431 633025605125  
 01432 234651246260  
 01433 314560263143  
 01434 256005736063  
 01435 214725600233  
 01436 606060606060  
 01437 606060606060  
 01440 606060606060  
 01441 606060606060  
 01442 606060606060  
 01443 0 00000 0 00000 X  
           00000

A

C HTR  
 D BCD 5

BCD AND DOES NOT MATCH EXPECTED RECORD IDENTIFICATION WHICH WAS

BCD IN THE ACCUMULATOR AND IS NOT STORED.

BCD THIS SUBROUTINE BEGINS AT 304 AND IS USED TO READ IN ANY OF

BCD THE RECORDS IN FILE 5, TAPE 2.

END

1231

```

1
1      ORG 120      00170
00170 0 01303 0 01330
          01303
TD 01303 3 00000 0 00170
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01331 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 262143622560
01314 254524604626
01315 605125234651
01316 247360632147
01317 256004336060
01320 234647706043
01321 464647602163
01322 604346232163
01323 314645600300
01324 603162606247
01325 212331452760
01326 466525516026
01327 315162636026
01330 314325336060
01331 0 00000 0 00000 X
          ... 00000
A

```

```

FORCE NEW RECORD
ORG 120      FORCE NEW RECORD
HTR X-1,0,LOCREC  CARD FOR DE
ORG LOCREC
TXH 120      36 FT 53
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+16
TRA DIGRTN
BCD 2
BCD FALSE END OF RECORD, TAPE 4. COPY LOOP AT LOCATION 30 IS SP
BCD 4ACING OVER FIRST FILE.
END

```

1  
1  
ORG 121  
00171 0 01303 0 01331  
01303 3 00000 0 00171  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01332 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 605125234651  
01316 247360632147  
01317 256004336060  
01320 234647706043  
01321 464647602163  
01322 604346232163  
01323 314645600404  
01324 010360316260  
01325 215151214527  
01326 252460634660  
01327 263145246025  
01330 452460462660  
01331 263143253360  
01332 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 121  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 121  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+17  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
4417 FT 88

BCD FALSE END OF RECORD, TAPE 4. COPY LOOP AT LOCATION 4413 IS

BCD SARRANGED TO FIND END OF FILE.

END

A

1332

1  
1

ORG 122

00172	0	01303	0	01353	00172
				01303	
TD	01303	3	00000	0	00172
01304	0	07400	4	00740	
01305	0	01244	0	01237	
01306	0	07400	4	00740	
01307	0	01354	0	01311	
01310	0	02000	0	00221	
01311	606060606060				PR
01312	606060606060				
01313	262143622560				
01314	254524604626				
01315	605125234651				
01316	246051252124				
01317	314527602446				
01320	632127605125				
01321	234651246026				
01322	514644606321				
01323	472560037360				
01324	263143256001				
01325	336060512523				
01326	465124602346				
01327	456321314562				
01330	602160456444				
01331	222551604626				
01332	601160664651				
01333	246025456351				
01334	312562336060				
01335	606060606060				
01336	606060606060				
01337	234647706043				
01340	464647602163				
01341	604346232163				
01342	314645600700				
01343	040360512521				
01344	246260464543				
01345	706026315162				
01346	636021452460				
01347	622523464524				
01350	606646512460				
01351	462660252123				
01352	306025456351				
01353	703360606060				
01354	0	00000	0	00000	X
				00000	

A

FORCE NEW RECORD

ORG 122  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 122  
122  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+35  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

7053 FT 36  
7057 FT 36

BCD FALSE END OF RECORD READING DOTAG RECORD FROM TAPE 3, FILE 1

BCD . RECORD CONTAINS A NUMBER OF 9 WORD ENTRIES.

BCD COPY LOOP AT LOCATION 7043 READS ONLY FIRST AND SECOND WORD

BCD 30F EACH ENTRY.

END

1  
1  
TD  
A

ORG 123

00173 0 01303 0 01350 00173  
01303 3 00000 0 00173 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 605125234651  
01316 246063214725  
01317 600273602631  
01320 432560053360  
01321 602346477060  
01322 216360434623  
01323 216331464560  
01324 070204056062  
01325 304664432460  
01326 635121456226  
01327 255160634660  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 512462602163  
01340 604346232163  
01341 314645600702  
01342 040473604651  
01343 602321646225  
01344 602631432560  
01345 624231476021  
01346 636025452460  
01347 462660263143  
01350 256005336060  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 123  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 123  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
7250 FT 27

BCD FALSE END OF RECORD TAPE 2, FILE 5. COPY AT LOCATION 7245 S

BCD HOULD TRANSFER TO

BCD RDS AT LOCATION 7244, OR CAUSE FILE SKIP AT END OF FILE 5.

END

1  
1  
ORG 124  
00174 0 01303 0 00174  
01303 3 00000 0 00174

01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01400 0 01311  
01310 0 02000 0 00221  
01311 606060606060  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 605125234651  
01316 246046516026  
01317 214362256025  
01320 452460462660  
01321 263143256031  
01322 456051252124  
01323 314527736063  
01324 214725600373  
01325 602631432560  
01326 017360265146  
01327 446065215131  
01330 212243256043  
01331 254527633060  
01332 512523465124  
01333 606630312330  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 623046644324  
01340 603021652560  
01341 222525456066  
01342 513163632545  
01343 602162602160  
01344 622551312562  
01345 604626600460  
01346 664651246025  
01347 456351312562  
01350 336060234647  
01351 706043464647  
01352 602163604346  
01353 232163314645  
01354 600503605125  
01355 212462606060  
01356 606060606060  
01357 606060606060

PR

FORCE NEW RECORD  
ORG 124  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 124  
124  
124  
124  
124  
124  
TXS PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+55  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
62 FT 53  
63 FT 53  
66 FT 53  
67 FT 53  
72 FT 53  
73 FT 53

BCD FALSE END OF RECORD OR FALSE END OF FILE IN READING, TAPE 3,

BCD FILE 1, FROM VARIABLE LENGTH RECORD WHICH

BCD SHOULD HAVE BEEN WRITTEN AS A SERIES OF 4 WORD ENTRIES. COP

BCD Y LOOP AT LOCATION 53 READS

01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 046066465124  
01364 626021636021  
01365 606331442560  
01366 214524602330  
01367 252342626021  
01370 272131456263  
01371 606330316260  
01372 314560512521  
01373 243145276002  
01374 452473600351  
01375 246021452460  
01376 046330606646  
01377 512433606060  
01400 0 00000 0 00000 X

BCD 4 WORDS AT A TIME AND CHECKS AGAINST THIS IN READING 2ND, 3R

BCD 3D AND 4TH WORD.

A

00000

END

1277



1  
1  
TD  
ORG 125  
00175 0 01303 0 00175  
01303 3 00000 0 00175  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01370 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 465160262143  
01317 622560254524  
01320 604626605125  
01321 234651246031  
01322 456051252124  
01323 314527605125  
01324 234651246026  
01325 514644606321  
01326 472560027360  
01327 263143256005  
01330 336060512523  
01331 465124626031  
01332 456063303162  
01333 602631432560  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 215125604431  
01340 453144644460  
01341 026066465124  
01342 627360312425  
01343 456331263123  
01344 216331464560  
01345 664651246021  
01346 452460664651  
01347 246023466445  
01350 633360602346  
01351 477060434646  
01352 476021636043  
01353 462321633146  
01354 456007000700  
01355 602446256260  
01356 454663602163  
01357 632544476360  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 634660512521

FORCE NEW RECORD  
ORG 125  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 125  
125  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+47  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
7075 FT 27  
7076 FT 27

BCD FALSE END OF FILE OR FALSE END OF RECORD IN READING RECORD F

BCD ROM TAPE 2, FILE 5. RECORDS IN THIS FILE

BCD ARE MINIMUM 2 WORDS, IDENTIFICATION WORD AND WORD COUNT. CO

BCD PY LOOP AT LOCATION 7070 DOES NOT ATTEMPT

BCD 5TO READ MORE THAN 2 WORDS.

01364 246044465125  
01365 606330214560  
01366 026066465124  
01367 623360606060  
01370 0 00000 0 00000 X  
00000

A

END

1231

I  
1

TD

ORG 126  
 00176 0 01303 0 00176  
 01303 3 00000 0 00176  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01375 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276021  
 01320 605125234651  
 01321 246026514644  
 01322 606321472560  
 01323 043360602346  
 01324 477060434646  
 01325 476022252731  
 01326 456260216360  
 01327 434623216331  
 01330 464560070505  
 01331 023360606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 633025602346  
 01340 477060216360  
 01341 434623216331  
 01342 464560070506  
 01343 016031626021  
 01344 636043252162  
 01345 636063302560  
 01346 622523464524  
 01347 604645256027  
 01350 316525456021  
 01351 452460316260  
 01352 475146275121  
 01353 444425246063  
 01354 466026314524  
 01355 606060606060  
 01356 606060606060  
 01357 606060606060  
 01360 606060606060  
 01361 606060606060  
 01362 606060606060  
 01363 214560254524  
 01364 604626605125

PR

FORCE NEW RECORD

ORG 126  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 126  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+52  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE

7563 FT 21

BCD FALSE END OF FILE IN READING A RECORD FROM TAPE 4. COPY LOO

BCD P BEGINS AT LOCATION 7552.

BCD THE COPY AT LOCATION 7561 IS AT LEAST THE SECOND ONE GIVEN A

BCD ND IS PROGRAMMED TO FIND

BCD AN END OF RECORD SKIP.

01365 234651246062  
01366 423147336060  
01367 606060606060  
01370 606060606060  
01371 606060606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 0 00000 0 00000 X  
00000

A

END

1  
1

TD

ORG 127  
 00177 0 01303 0 00177  
 01303 3 00000 0 00177  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01375 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276063  
 01320 302560263151  
 01321 626360664651  
 01322 246046266021  
 01323 605125234651  
 01324 246026514644  
 01325 606321472560  
 01326 043360602346  
 01327 477060434646  
 01330 476031626021  
 01331 636043462321  
 01332 623146456007  
 01333 050502336060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 633025602346  
 01340 477060216360  
 01341 434623216331  
 01342 464560070505  
 01343 036024462562  
 01344 604546636021  
 01345 636325444763  
 01346 606346605125  
 01347 212460444651  
 01350 256063302145  
 01351 606330256031  
 01352 242545633126  
 01353 312321633146  
 01354 456066465124  
 01355 604626606330  
 01356 256225605125  
 01357 234651246273  
 01360 606060606060  
 01361 606060606060  
 01362 606060606060  
 01363 663031233060  
 01364 215125602163

FORCE NEW RECORD

ORG 127  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 127.  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+52  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

7555 FT 21

BCD FALSE END OF FILE IN READING THE FIRST WORD OF A RECORD FROM

BCD TAPE 4. COPY LOOP IS AT LOCATION 7552.

BCD THE COPY AT LOCATION 7553 DOES NOT ATTEMPT TO READ MORE THAN

BCD THE IDENTIFICATION WORD OF THESE RECORDS,

BCD WHICH ARE AT LEAST TWO WORDS LONG.

1242

01365 604325216263  
01366 606366466066  
01367 465124626043  
01370 464527336060  
01371 606060606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 0 00000 0 00000 X  
00000

A

,END

ZUL

1  
1

ORG 128

FORCE NEW RECORD

TD

00200 0 01303 0 01350 00200  
 01303 3 00000 0 00200 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276063  
 01320 212763212760  
 01321 512523465124  
 01322 602651464460  
 01323 632147256004  
 01324 736026314325  
 01325 600233606023  
 01326 464770604346  
 01327 464760316260  
 01330 216360434623  
 01331 216331464560  
 01332 040002073360  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 234647706021  
 01340 636004000303  
 01341 603162604751  
 01342 462751214444  
 01343 252460634660  
 01344 263145246025  
 01345 452460462660  
 01346 512523465124  
 01347 606242314733  
 01350 606060606060  
 01351 0 00000 0 00000 X  
 00000

ORG 128 FORCE NEW RECORD  
 HTR X-1,0,LOCREC FORCE NEW RECORD  
 ORG LOCREC CARD FOR DE  
 TXH 128 4035 FT 51  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

BCD FALSE END OF FILE IN READING TAGTAG RECORD FROM TAPE 4, FILE

BCD 2. COPY LOOP IS AT LOCATION 4027.

BCD COPY AT 4033 IS PROGRAMMED TO FIND END OF RECORD SKIP.

A

END

1001

1  
1

ORG 129

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

00201 0 01303 0 01342  
 01303 3 00000 0 00201  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01343 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276024  
 01320 466321276051  
 01321 252346512460  
 01322 265146446063  
 01323 214725600373  
 01324 602631432560  
 01325 013360602346  
 01326 477060434646  
 01327 476021636043  
 01330 462321633146  
 01331 456004010507  
 01332 606230466443  
 01333 246023216462  
 01334 256060606060  
 01335 606060606060  
 01336 606060606060  
 01337 254524604626  
 01340 605125234651  
 01341 246062423147  
 01342 336060606060  
 01343 0 00000 0 00000 X  
 00000

PR

ORG 129  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 129  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+26  
 TRA DIGRTN  
 BCD 2

4161 FT 34

BCD FALSE END OF FILE IN READING DOTAG RECORD FROM TAPE 3, FILE

BCD 1. COPY LOOP AT LOCATION 4157 SHOULD CAUSE

BCD 4END OF RECORD SKIP.

END

A

1245



1  
1  
TD  
A

ORG 130

00202	0	01303	0	01353	00202
				01303	
01303	3	00000	0	00202	
01304	0	07400	4	00740	
01305	0	01244	0	01237	
01306	0	07400	4	00740	
01307	0	01354	0	01311	
01310	0	02000	0	00221	
01311	606060606060				PR
01312	606060606060				
01313	262143622560				
01314	254524604626				
01315	602631432560				
01316	314560512521				
01317	243145276024				
01320	466321276051				
01321	252346512460				
01322	265146446063				
01323	214725600373				
01324	602631432560				
01325	013360605125				
01326	234651246023				
01327	464563213145				
01330	626021604564				
01331	442225516046				
01332	266011606646				
01333	512460254563				
01334	513125623360				
01335	606060606060				
01336	606060606060				
01337	234647706043				
01340	464647602163				
01341	604346232163				
01342	314645600700				
01343	040360464543				
01344	706051252124				
01345	626026315162				
01346	636021452460				
01347	622523464524				
01350	606646512460				
01351	462660252123				
01352	306025456351				
01353	703360606060				
01354	0	00000	0	00000	X
				00000	

FORCE NEW RECORD  
 ORG 130  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 130  
 130  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+35  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 7052 FT 36  
 7056 FT 36

BCD FALSE END OF FILE IN READING DOTAG RECORD FROM TAPE 3, FILE

BCD 1. RECORD CONTAINS A NUMBER OF 9 WORD ENTRIES.

BCD COPY LOOP AT LOCATION 7043 ONLY READS FIRST AND SECOND WORD

BCD 30F EACH ENTRY.

END

1  
1

ORG 131

00203 0 01303 0 00203  
01303 3 00000 0 00203  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01376 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276051  
01320 252346512460  
01321 265146446063  
01322 214725600273  
01323 602631432560  
01324 053360605125  
01325 234651246260  
01326 314560633031  
01327 626026314325  
01330 602151256044  
01331 314531446444  
01332 600260664651  
01333 246273606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 312425456331  
01340 263123216331  
01341 464560214524  
01342 606646512460  
01343 234664456333  
01344 606023464770  
01345 602163604346  
01346 232163314645  
01347 600701000160  
01350 316260216360  
01351 432521626360  
01352 633031512460  
01353 234647706027  
01354 316525457360  
01355 214524603162  
01356 604751462751  
01357 214444252460  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 634660263145  
01364 246025452460

FORCE NEW RECORD

ORG 131  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 131  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+53  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
7103 FT 27

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 2, FILE 5. RE

BCD CORDS IN THIS FILE ARE MINIMUM 2 WORDS.

BCD IDENTIFICATION AND WORD COUNT. COPY AT LOCATION 7101 IS AT

BCD LEAST THIRD COPY GIVEN, AND IS PROGRAMMED

BCD TO FIND END OF RECORD SKIP. COPY LOOP BEGINS AT LOCATION 70

291

01365 462660512523  
01366 465124606242  
01367 314733606023  
01370 464770604346  
01371 464760222527  
01372 314562602163  
01373 604346232163  
01374 314645600700  
01375 070033606060  
01376 0 00000 0 00000 X  
          00000

A

BCD 170.

END

1  
1

ORG 132

FORCE NEW RECORD

FORCE NEW RECORD

00204 0 01303 0 00204  
01303 3 00000 0 00204  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01370 0 01311  
01310 0 02000 0 00221  
01311 606060606060  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276051  
01320 252346512460  
01321 265146446063  
01322 214725600273  
01323 602631432560  
01324 057360512523  
01325 465124601033  
01326 606023464770  
01327 604346464760  
01330 316260272545  
01331 255121436060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 626422514664  
01340 633145256021  
01341 636043462321  
01342 633146456007  
01343 000600336060  
01344 234647706021  
01345 636043462321  
01346 633146456007  
01347 010303603162  
01350 604751462751  
01351 214444252460  
01352 634660263145  
01353 246025452460  
01354 462660512523  
01355 465124606242  
01356 314760606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 264651606330  
01364 316260624725

PR

ORG 132  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 132  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+47  
TRA DIGRTN  
BCD 2

CARD FOR DE  
7135 FT 27

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 2, FILE 5, REC

BCD ORD 8. COPY LOOP IS GENERAL

BCD SUBROUTINE AT LOCATION 7060. COPY AT LOCATION 7133 IS PROGR

BCD AMMED TO FIND END OF RECORD SKIP

BCD 5FOR THIS SPECIFIC RECORD.

271

01365 233126312360  
01366 512523465124  
01367 336060606060  
01370 0 00000 0 00000 X  
00000

A

END

1  
1  
ORG 133  
00205 0 01303 0 01356  
01303 3 00000 0 00205  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01357 0 01311  
01310 0 02000 0 00221  
01311 606060606060  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276026  
01320 465163212760  
01321 512523465124  
01322 606321472560  
01323 027360263143  
01324 256005736051  
01325 252346512460  
01326 010133606063  
01327 302551256021  
01330 512560010460  
01331 512523465124  
01332 626060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 314560633031  
01340 626026314325  
01341 336060234647  
01342 706043464647  
01343 603162602163  
01344 604346232163  
01345 314645600403  
01346 336060234647  
01347 706021636043  
01350 462321633146  
01351 456005066062  
01352 304664432460  
01353 263145246025  
01354 452460462660  
01355 512523465124  
01356 606242314733  
01357 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 133  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 133  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+38  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
60 FT 56

PR

BCD FALSE END OF FILE IN READING FORTAG RECORD TAPE 2, FILE 5, R

BCD RECORD 11. THERE ARE 14 RECORDS

BCD IN THIS FILE. COPY LOOP IS AT LOCATION 43. COPY AT LOCATIO

BCD 6N 56 SHOULD FIND END OF RECORD SKIP.

A

END

1  
1

TD

A

ORG 134  
 00206 0 01303 0 00206  
 01303 3 00000 0 00206  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276063  
 01320 312627466026  
 01321 514644606321  
 01322 472560027360  
 01323 263143256005  
 01324 736051252346  
 01325 512460063360  
 01326 606330255125  
 01327 602151256001  
 01330 046051252346  
 01331 512462603145  
 01332 606330316260  
 01333 263143253360  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 234647706021  
 01340 636043462321  
 01341 633146456003  
 01342 030660623046  
 01343 644324602631  
 01344 452460254524  
 01345 604626605125  
 01346 234651246062  
 01347 423147336060  
 01350 606060606060  
 01351 0 00000 0 00000 X  
 00000

PR

FORCE NEW RECORD

ORG 134  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 134  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

340 FT 58

BCD FALSE END OF FILE IN READING TIFGO FROM TAPE 2, FILE 5, RECO

BCD RD 6. THERE ARE 14 RECORDS IN THIS FILE.

BCD COPY AT LOCATION 336 SHOULD FIND END OF RECORD SKIP.

END

1  
1

ORG 135

TD

00207 0 01303 0 01357  
 01303 3 00000 0 00207  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01360 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276063  
 01320 512124605125  
 01321 234651246063  
 01322 214725600273  
 01323 602631432560  
 01324 057360512523  
 01325 465124600733  
 01326 606063302551  
 01327 256021512560  
 01330 010460512523  
 01331 465124626060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 314560633031  
 01340 626026314325  
 01341 336060234647  
 01342 706043464647  
 01343 603162602163  
 01344 604346232163  
 01345 314645600305  
 01346 023360602346  
 01347 477060216360  
 01350 434623216331  
 01351 464560030604  
 01352 606230466443  
 01353 246026314524  
 01354 602545246046  
 01355 266051252346  
 01356 512460624231  
 01357 473360606060  
 01360 0 00000 0 00000 X  
 00000

PR

FORCE NEW RECORD

ORG 135  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 135  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+39  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

366 FT 58

BCD FALSE END OF FILE IN READING TRAD RECORD TAPE 2, FILE 5, REC

BCD ORD 7. THERE ARE 14 RECORDS

BCD IN THIS FILE. COPY LOOP IS AT LOCATION 352. COPY AT LOCATI

BCD 70N 364 SHOULD FIND END OF RECORD SKIP.

END

A

1203



1  
1  
TD  
A

ORG 136

00210	0	01303	0	00210
				01347
				01303
01303	3	00000	0	00210
01304	0	07400	4	00740
01305	0	01244	0	01237
01306	0	07400	4	00740
01307	0	01350	0	01311
01310	0	02000	0	00221
01311	606060606060			PR
01312	606060606060			
01313	262143622560			
01314	254524604626			
01315	602631432560			
01316	314560512521			
01317	243145276063			
01320	512143256560			
01321	512523465124			
01322	602651464460			
01323	632147256004			
01324	736026314325			
01325	600173605125			
01326	234651246001			
01327	336060234647			
01330	706043464647			
01331	603162602163			
01332	604346232163			
01333	314645600400			
01334	013360606060			
01335	606060606060			
01336	606060606060			
01337	234647706021			
01340	636043462321			
01341	633146456004			
01342	010560623046			
01343	644324602631			
01344	452460254524			
01345	604626605125			
01346	234651246062			
01347	423147336060			
01350	0	00000	0	00000 X
				00000

FORCE NEW RECORD  
 ORG 136  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 136  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+31  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 417 FT 58

BCD FALSE END OF FILE IN READING TRALEV RECORD FROM TAPE 4, FILE

BCD 1, RECORD 1. COPY LOOP IS AT LOCATION 401.

BCD 9COPY AT LOCATION 415 SHOULD FIND END OF RECORD SKIP.

END

1  
1

ORG 137

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00211 0 01303 0 00211  
 01303 3 00000 0 00211  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01335 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276063  
 01320 312627466051  
 01321 252346512460  
 01322 265146446063  
 01323 214725600273  
 01324 602631432560  
 01325 057360512523  
 01326 465124600633  
 01327 606023464770  
 01330 604346464760  
 01331 316260216360  
 01332 434623216331  
 01333 464560040407  
 01334 336060606060  
 01335 0 00000 0 00000 X  
 00000

ORG 137  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 137  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+20  
 TRA DIGRTN  
 BCD 2

454 FT 62

BCD FALSE END OF FILE IN READING TIFGO RECORD FROM TAPE 2, FILE

BCD 85, RECORD 6. COPY LOOP IS AT LOCATION 447.

END

A

1  
1

ORG 138

00212 0 01303 0 01334 00212  
 01303 3 00000 0 00212 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01335 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276063  
 01320 512124605125  
 01321 234651246026  
 01322 514644606321  
 01323 472560027360  
 01324 263143256005  
 01325 736051252346  
 01326 512460073360  
 01327 602346477060  
 01330 434646476031  
 01331 626021636043  
 01332 462321633146  
 01333 456005030033  
 01334 606060606060  
 01335 0 00000 0 00000 X  
 00000

TD

PR

FORCE NEW RECORD

ORG 138  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 138  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+20  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

534 FT 62

BCD FALSE END OF FILE IN READING TRAD RECORD FROM TAPE 2, FILE 5

BCD 8, RECORD 7. COPY LOOP IS AT LOCATION 530.

END

A

1256

1  
1

ORG 139

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

00213 0 01303 0 00213  
 01303 3 00000 0 00213  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01351 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276051  
 01320 252346512460  
 01321 265146446063  
 01322 214725600373  
 01323 606630312330  
 01324 606230466443  
 01325 246030216525  
 01326 602225254560  
 01327 474662316331  
 01330 464525246021  
 01331 266325516026  
 01332 314325604421  
 01333 514260606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 216360633025  
 01340 602545246046  
 01341 266063302560  
 01342 106330602631  
 01343 432533606023  
 01344 464770604346  
 01345 464760316260  
 01346 216360434623  
 01347 216331464560  
 01350 030205336060  
 01351 0 00000 0 00000 X

PR

ORG 139  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 139  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+32  
 TRA DIGRTN  
 BCD 2

336 FT 86

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 3, WHICH SHOUL

BCD D HAVE BEEN POSITIONED AFTER FILE MARK

BCD AT THE END OF THE 8TH FILE. COPY LOOP IS AT LOCATION 325.

A

00000

END

257

```

1
1
    ORG 140
00214 0 01303 0 01350 00214
    01303
TD 01303 3 00000 0 00214
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01351 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 262143622560
01314 254524604626
01315 602631432560
01316 314560512521
01317 243145276051
01320 252346512460
01321 265146446063
01322 214725600373
01323 602631432560
01324 033360606330
01325 256225602151
01326 256001056066
01327 465124605125
01330 234651246260
01331 214524606060
01332 606060606060
01333 606060606060
01334 606060606060
01335 606060606060
01336 606060606060
01337 633025512560
01340 316260214560
01341 254524604626
01342 602631432560
01343 442151423360
01344 602346477060
01345 434646476031
01346 626021636043
01347 462321633146
01350 456001010702
01351 0 00000 0 00000 X
    00000
A

```

```

FORCE NEW RECORD
ORG 140
HTR X-1,0,LOCREC
ORG LOCREC
TXH 140
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,X
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
1211 FT 75

```

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 3, FILE 3. TH

BCD ESE ARE 15 WORD RECORDS AND

BCD THERE IS AN END OF FILE MARK. COPY LOOP IS AT LOCATION 1172

END

1  
1  
ORG 141  
00215 0 01303 0 01344 00215  
01303 3 00000 0 00215 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01345 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276051  
01320 252346512460  
01321 265146446063  
01322 214725600373  
01323 602631432560  
01324 033360606330  
01325 316260263143  
01326 256024462562  
01327 604546636030  
01330 216525602160  
01331 263143256044  
01332 215142602163  
01333 606330256025  
01334 452433606060  
01335 606060606060  
01336 606060606060  
01337 234647706043  
01340 464647603162  
01341 602163604346  
01342 232163314645  
01343 600101070233  
01344 606060606060  
01345 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 141  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 141  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+28  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
1221 FT 75

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 3, FILE 3. TH

BCD IS FILE DOES NOT HAVE A FILE MARK AT THE END.

BCD 6COPY LOOP IS AT LOCATION 1172.

END

A

127

1  
1

ORG 142

00216 0 01303 0 01374 00216  
01303

TD 01303 3 00000 0 00216  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01375 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276023  
01320 316360512523  
01321 465124602651  
01322 464460632147  
01323 256003736066  
01324 303123306062  
01325 304664432460  
01326 302165256022  
01327 252545604746  
01330 623163314645  
01331 252460212663  
01332 255160263143  
01333 256044215142  
01334 336060606060  
01335 606060606060  
01336 606060606060  
01337 234647706043  
01340 464647602225  
01341 273145626021  
01342 636043462321  
01343 633146456003  
01344 006066316330  
01345 600260226263  
01346 603145626351  
01347 642363314645  
01350 623360602346  
01351 477060216360  
01352 030560316260  
01353 475146275121  
01354 444425246060  
01355 606060606060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 634660263145  
01364 246025452460

FORCE NEW RECORD  
ORG 142  
HTR X-1,0,LOCREC  
ORG LOCRC  
TXH 142  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+52  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
37 FT 90

BCD FALSE END OF FILE IN READING CIT RECORD FROM TAPE 3, WHICH S

BCD HOULD HAVE BEEN POSITIONED AFTER FILE MARK.

BCD COPY LOOP BEGINS AT LOCATION 30 WITH 2 BST INSTRUCTIONS. CO

BCD PY AT 35 IS PROGRAMMED

BCD TO FIND END OF REGRD SKIP.

01365 462660512523  
01366 465124606242  
01367 314733606060  
01370 606060606060  
01371 606060606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 0 00000 0 00000 X  
                  00000

A

END





1  
1  
ORG 144  
00220 0 01303 0 00220  
01303 3 00000 0 00220  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01333 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276051  
01320 252346512460  
01321 265146446063  
01322 214725600273  
01323 605125234651  
01324 246002736026  
01325 314325600533  
01326 606023464770  
01327 604346464760  
01330 316260216360  
01331 434623216331  
01332 464560010305  
01333 0 00000 0 00000 X  
00000

FORCE NEW RECORD

ORG 144  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 144  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+18  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

1341 FT 92

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 2, RECORD 2, F

BCD 6ILE 5. COPY LOOP IS AT LOCATION 135.

END

A

I  
 1  
 TD  
 A  
 00221 0 01303 0 00221  
 01303 3 00000 0 00221  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01334 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 262143622560  
 01314 254524604626  
 01315 602631432560  
 01316 314560512521  
 01317 243145276051  
 01320 252346512460  
 01321 265146446063  
 01322 214725600273  
 01323 605125234651  
 01324 246004736026  
 01325 314325600533  
 01326 606023464770  
 01327 604346464760  
 01330 316260216360  
 01331 434623216331  
 01332 464560010103  
 01333 013360606060  
 01334 0 00000 0 00000 X  
 00000

FORCE NEW RECORD  
 ORG 145  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 145  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+19  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 1347 FT 92

BCD FALSE END OF FILE IN READING RECORD FROM TAPE 2, RECORD 4, F

BCD 7ILE 5. COPY LOOP IS AT LOCATION 1131.

END

1  
1  
ORG 146  
00222 0 01303 0 01350 00222  
01303 3 00000 0 00222  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01351 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276063  
01320 214725605125  
01321 234651246046  
01322 266023215124  
01323 603144212725  
01324 602651464460  
01325 632147256003  
01326 336060234647  
01327 706021636043  
01330 462321633146  
01331 456003060700  
01332 606230466443  
01333 246060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 232164622560  
01340 254524604626  
01341 605125234651  
01342 246062423147  
01343 336060234647  
01344 706043464647  
01345 603162602163  
01346 604346232163  
01347 314645600306  
01350 050533606060  
01351 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 146  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 146  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+32  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
3672 FT 115

BCD FALSE END OF FILE IN READING TAPE RECORD OF CARD IMAGE FROM

BCD TAPE 3. COPY AT LOCATION 3670 SHOULD

BCD CAUSE END OF RECORD SKIP. COPY LOOP IS AT LOCATION 3655.

END

A



1  
1  
1  
TD  
A

ORG 148

00224 0 01303 0 00224  
01303 3 00000 0 00224  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01353 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262143622560  
01314 254524604626  
01315 602631432560  
01316 314560512521  
01317 243145276062  
01320 642224252660  
01321 632122432560  
01322 265146446063  
01323 214725600273  
01324 605125234651  
01325 246002736026  
01326 314325600533  
01327 606023464770  
01330 604346464760  
01331 316260216360  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 434623216331  
01340 464560040504  
01341 336060234647  
01342 706021636004  
01343 060460316260  
01344 475146275121  
01345 444425246063  
01346 466026314524  
01347 602545246046  
01350 266051252346  
01351 512460624231  
01352 473360606060  
01353 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 148  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 148  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+34  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
624 FT 98

BCD FALSE END OF FILE IN READING SUBDEF TABLE FROM TAPE 2, RECOR

BCD D 2, FILE 5. COPY LOOP IS AT

BCD LOCATION 454. COPY AT 464 IS PROGRAMMED TO FIND END OF RECO

BCD 2RD SKIP.

END

```

1
1
    ORG 149
00225 0 01303 0 00225
    01303
TD 01303 3 00000 0 00225
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01360 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 216062642262
    01314 235131476360
    01315 234644223145
    01316 216331464573
    01317 602163604325
    01320 216263600160
    01321 314524256760
    01322 462660663031
    01323 233060316260
    01324 644524255160
    01325 234645635146
    01326 436046266021
    01327 602446736031
    01330 626022253145
    01331 276025672144
    01332 314525243360
    01333 606060606060
    01334 606060606060
    01335 606060606060
    01336 606060606060
    01337 216062642262
    01340 235131476360
    01341 302162602225
    01342 254560264664
    01343 452460663163
    01344 304664636062
    01345 642330602145
    01346 603145242567
    01347 336060633025
    01350 604346273123
    01351 604626606330
    01352 256047514627
    01353 512144604421
    01354 422562606330
    01355 316260314447
    01356 466262312243
    01357 253360606060
    01360 0 00000 0 00000 X
          00000
  
```

```

FORCE NEW RECORD
ORG 149
HTR X-1,0,LOCREC
ORG LOCREC
TXH 149
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+39
TRA DIGRTN
BCD 2
  
```

```

FORCE NEW RECORD
CARD FOR DE
6004 FT 32
  
```

BCD A SUBSCRIPT COMBINATION, AT LEAST 1 INDEX OF WHICH IS UNDER

BCD CONTROL OF A DO, IS BEING EXAMINED.

BCD A SUBSCRIPT HAS BEEN FOUND WITHOUT SUCH AN INDEX. THE LOGIC

BCD 7 OF THE PROGRAM MAKES THIS IMPOSSIBLE.

A

END

1

1

TD

```

      ORG 150
00226 0 01303 0 01355 00226
      01303
01303 3 00000 0 00226
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01356 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 514664633145
01314 256021636043
01315 462321633146
01316 456006070101
01317 606230466443
01320 246022256021
01321 224325606346
01322 602346456331
01323 456425602145
01324 214370623162
01325 604626604525
01326 676360244660
01327 314560452562
01330 633360602364
01331 515125456360
01332 432565254360
01333 264651602145
01334 606060606060
01335 606060606060
01336 606060606060
01337 314545255160
01340 244660302162
01341 602225254560
01342 512524642325
01343 246063466001
01344 336060434627
01345 312360462660
01346 633025604751
01347 462751214460
01350 442142256260
01351 633031626031
01352 444746626231
01353 224325336060
01354 606060606060
01355 606060606060
01356 0 00000 0 00000 X
      00000

```

A

FORCE NEW RECORD

```

ORG 150
HTR X-1,0,LOCREC
ORG LOCREC
TXH 150
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+37
TRA DIGRTN
BCD 2

```

FORCE NEW RECORD  
CARD FOR DE

6710 FT 27

BCD ROUTINE AT LOCATION 6711 SHOULD BE ABLE TO CONTINUE ANALYSIS

BCD OF NEXT DO IN NEST. CURRENT LEVEL FOR AN

BCD INNER DO HAS BEEN REDUCED TO 1. LOGIC OF THE PROGRAM MAKES

BCD 5THIS IMPOSSIBLE.

END



```

1
1
    ORG 151
00227 0 01303 0 01355
    01303
TD 01303 3 00000 0 00227
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01356 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 216024466045
    01314 256263252460
    01315 663163303145
    01316 602145466330
    01317 255160244660
    01320 302162602225
    01321 254560264664
    01322 452460634660
    01323 302165256021
    01324 604325652543
    01325 602162623127
    01326 454425456360
    01327 432562626063
    01330 302145604651
    01331 602550642143
    01332 606346600133
    01333 606060606060
    01334 606060606060
    01335 606060606060
    01336 606060606060
    01337 633025604346
    01340 273123604626
    01341 606330256047
    01342 514627512144
    01343 604421422562
    01344 606330316260
    01345 314447466262
    01346 312243253360
    01347 633025604325
    01350 652543602346
    01351 644563603162
    01352 603145603145
    01353 242567605125
    01354 273162632551
    01355 600233606060
    01356 0 00000 0 00000 X
    00000

```

```

FORCE NEW RECORD
ORG 151
HTR X-1,0,LOCREC
ORG LOCREC
TXH 151
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+37
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
6373 FT 27

```

BCD A DO NESTED WITHIN ANOTHER DO HAS BEEN FOUND TO HAVE A LEVEL

BCD ASSIGNMENT LESS THAN OR EQUAL TO 1.

BCD THE LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE. THE LEVEL CO

BCD SUNT IS IN INDEX REGISTER 2.

END

A

1  
1

ORG 152

FORCE NEW RECORD

00230 0 01303 0 01366  
 01303 3 00000 0 00230  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01367 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 314524256760  
 01314 512527316263  
 01315 255160016030  
 01316 216260222525  
 01317 456031452351  
 01320 254425456325  
 01321 246022257046  
 01322 452460633025  
 01323 604421673144  
 01324 644460622563  
 01325 633145276047  
 01326 255144316262  
 01327 212243256031  
 01330 456063303162  
 01331 606225236331  
 01332 464560462660  
 01333 475146275121  
 01334 447360606060  
 01335 606060606060  
 01336 606060606060  
 01337 242562473163  
 01340 256021606325  
 01341 626360314560  
 01342 633025605146  
 01343 646331452560  
 01344 663031233060  
 01345 475125652545  
 01346 636260633031  
 01347 623360604751  
 01350 462751214460  
 01351 623046644324  
 01352 602225602122  
 01353 432560634660  
 01354 462263213145  
 01355 602446632127  
 01356 602545635170  
 01357 606060606060  
 01360 606060606060  
 01361 606060606060  
 01362 606060606060  
 01363 264651604525  
 01364 676360466463

PR

ORG 152  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 152  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+46  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 FORCE NEW RECORD  
 CARD FOR DE  
 6376 FT 27

BCD INDEX REGISTER 1 HAS BEEN INCREMENTED BEYOND THE MAXIMUM SET

BCD TING PERMISSABLE IN THIS SECTION OF PROGRAM,

BCD DESPITE A TEST IN THE ROUTINE WHICH PREVENTS THIS. PROGRAM

BCD SHOULD BE ABLE TO OBTAIN DOTAG ENTRY

BCD 4FOR NEXT OUTER DO.

1171

01365 255160244633  
01366 606060606060  
01367 0 00000 0 00000 X  
00000

A

END

1  
1

ORG 153

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

00231 0 01303 0 00231  
01303  
TD 01303 3 00000 0 00231

ORG 153  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 153  
153  
153

5742 FT 27  
5763 FT 27  
5764 FT 27  
6306 OCTAL

06306 TIFX  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 50000 0 06306  
01307 0 77100 0 00022  
01310 0 62100 0 01400  
01311 0 50000 0 01377  
01312 0 40200 0 01400  
01313 0 62100 0 01340  
01314 0 76200 0 00304  
01315 0 46000 0 01340  
01316 0 70000 0 01400  
01317 0 50000 0 01400  
01320 0 77100 0 00022  
01321 0 07400 4 00613  
01322 0 60200 0 01400  
01323 -0 50000 0 01350  
01324 0 77100 0 00022  
01325 0 56000 0 01400  
01326 -0 76300 0 00022  
01327 0 60200 0 01350  
01330 -0 76300 0 00022  
01331 0 56000 0 01351  
01332 -0 77300 0 00022  
01333 -0 76300 0 00022  
01334 0 60200 0 01351  
01335 0 07400 4 00740  
01336 0 01377 0 01341  
01337 0 02000 0 00221  
01340 0 00000 0 00000 A  
01341 606060606060 PR  
01342 606060606060  
01343 633025603126  
01344 604651602746  
01345 606346606263  
01346 216325442545  
01347 636045644422  
01350 255160606060 COMA  
01351 606060603021 COMB  
01352 626022252545  
01353 602162623127  
01354 452524602160  
01355 234321626231  
01356 263123216331  
01357 464560303127  
01360 302551606330  
01361 214560063360

SYN 3270  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
CLA TIFX  
ARS 18  
STA TIFGO  
CLA TIFZ  
SUB TIFGO  
STA A  
RDR 4  
LDA A  
CPY TIFGO  
CLA TIFGO  
ARS 18  
TSX EXBETA,4  
SLW TIFGO  
CAL COMA  
ARS 18  
LDQ TIFGO  
LGL 18  
SLW COMA  
LGL 18  
LDQ COMB  
RQL 18  
LGL 18  
SLW COMB  
TSX PRINT,4  
HTR PR,0,PR+30  
TRA DIGRTN

CURRENT INDEX TO TIFGO ENTRIES

ADDRESS OF TIFGO BUFFER, THIS IS NOW  
ON DRUM 4

INTERNAL NUMBER OF TIFGO IN DECREMENT

GET EXTERNAL STATEMENT NUMBER

123 FROM ABOVE INTO COMMENT

45 FROM ABOVE INTO REST OF COMMENT

SHIFT 2 CHARACTERS OUT OF MQ

BCD 2  
BCD 5THE IF OR GO TO STATEMENT NUMB

BCD 1ER  
BCD 1 HA  
BCD S BEEN ASSIGNED A CLASSIFICATION HIGHER THAN 6.

01362 606060606060  
01363 606060606060  
01364 606060606060  
01365 606060606060  
01366 606060606060  
01367 633025604346  
01370 273123604626  
01371 606330256047  
01372 514627512144  
01373 604421422562  
01374 606330316260  
01375 314447466262  
01376 312243253360  
01377 0 0000 0 03670 TIFZ HTR 1976  
01400 0 00000 0 00000 TIFGO HTR 0  
01401 0 00000 0 00000 X

BCD 3

BCD 8 THE LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE.

3670 OCTAL

00000 ... END

A

```

1
1
    ORG 154
00232 0 01303 0 01360 00232
    01303
TD 01303 3 00000 0 00232
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01361 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 234645632545
    01314 636260462660
    01315 244631452460
    01316 744346232163
    01317 314645600502
    01320 030034602446
    01321 604546636044
    01322 216323306023
    01323 464563254563
    01324 626046266025
    01325 316330255160
    01326 632127022001
    01327 730260607443
    01330 462321633146
    01331 456003060500
    01332 347360606321
    01333 270220027302
    01334 606046516060
    01335 606060606060
    01336 606060606060
    01337 632127022003
    01340 730233606043
    01341 462731236046
    01342 266047514627
    01343 512144604421
    01344 422562606330
    01345 316260314447
    01346 466262312243
    01347 253360606264
    01350 225146646331
    01351 4525606663031
    01352 233060232145
    01353 454663602631
    01354 452460442163
    01355 233060316260
    01356 216360434623
    01357 216331464560
    01360 040200043360
    01361 0 00000 0 00000 X
        00000

```

```

FORCE NEW RECORD
ORG 154
HTR X-1,0,LOCREC
ORG LOCREC
TXH 154
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+40
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
5773 FT 51

```

BCD CONTENTS OF DOIND (LOCATION 5230) DO NOT MATCH CONTENTS OF E

BCD ITHET TAG2+1,2 (LOCATION 3650), TAG2+2,2 OR

BCD TAG2+3,2. LOGIC OF PROGRAM MAKES THIS IMPOSSIBLE. SUBROUTI

BCD BNE WHICH CANNOT FIND MATCH IS AT LOCATION 4204.

END

A

```

1
1      ORG 155
00233 0 01303 0 00233
          01303
TD 01303 3 00000 0 00233
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01360 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 632122432560
01314 622521512330
01315 602621314364
01316 512533606043
01317 462731236046
01320 266047514627
01321 512144604421
01322 422562606330
01323 316260314447
01324 466262312243
01325 253360606264
01326 225146646331
01327 452560216360
01330 434623216331
01331 464560060207
01332 076023464447
01333 314325626060
01334 606060606060
01335 606060606060
01336 606060606060
01337 215127644425
01340 456360744346
01341 232163314645
01342 600502040334
01343 606630312330
01344 606264225146
01345 646331452560
01346 216360434623
01347 216331464560
01350 060305046031
01351 626064452122
01352 432560634660
01353 442163233060
01354 314560216022
01355 434623426046
01356 266023464562
01357 632145636233
01360 0 00000 0 00000 X
          00000
A

```

```

FORCE NEW RECORD
ORG 155
HTR X-1,0,LOCREC
ORG LOCREC
TXH 155
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+39
TRA DIGRTN
BCD 2

FORCE NEW RECORD
CARD FOR DE
6353 FT 51

BCD TABLE SEARCH FAILURE. LOGIC OF PROGRAM MAKES THIS IMPOSSIBL

BCD E. SUBROUTINE AT LOCATION 6277 COMPILES

BCD ARGUMENT (LOCATION 5243) WHICH SUBROUTINE AT LOCATION 6354 I

BCD 7S UNABLE TO MATCH IN A BLOCK OF CONSTANTS.

END

```

1  
1  
ORG 156 00234  
00234 0 01303 0 01351  
01303  
TD 01303 3 00000 0 00234  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01352 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 632122432560  
01314 222527314545  
01315 314527602163  
01316 604346232163  
01317 314645600604  
01320 000060302162  
01321 602225254560  
01322 465124255125  
01323 246022706051  
01324 466463314525  
01325 602163604346  
01326 232163314645  
01327 600700050333  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 232162603145  
01340 626351642363  
01341 314645602163  
01342 604346232163  
01343 314645600701  
01344 000560623046  
01345 666260633021  
01346 636063212243  
01347 256031626046  
01350 646360462660  
01351 465124255133  
01352 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 156  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 156  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+33  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
7110 FT 43

BCD TABLE BEGINNING AT LOCATION 6400 HAS BEEN ORDERED BY ROUTINE

BCD AT LOCATION 7053.

BCD CAS INSTRUCTION AT LOCATION 7105 SHOWS THAT TABLE IS OUT OF

BCD 1ORDER.

END



1  
1  
TD

	ORG 157			00235	
	00235	0	01303	0	01414
					01303
	01303	3	00000	0	00235
	01304	0	07400	4	00740
	01305	0	01244	0	01237
	01306	0	07400	4	00740
	01307	0	01415	0	01311
	01310	0	02000	0	00221
	01311	606060606060			
	01312	606060606060			
	01313	454660254563			
	01314	517060314560			
	01315	633126512524			
	01316	606321224325			
	01317	602646516021			
	01320	606521513121			
	01321	224325602651			
	01322	464460214560			
	01323	216262312745			
	01324	252460274660			
	01325	634660626321			
	01326	632544254563			
	01327	603145606330			
	01330	256023464447			
	01331	314325246031			
	01332	456263516423			
	01333	633146456233			
	01334	606060606060			
	01335	606060606060			
	01336	606060606060			
	01337	434627312360			
	01340	462660633025			
	01341	604751462751			
	01342	214460442142			
	01343	256260633031			
	01344	626031444746			
	01345	626231224325			
	01346	336060626346			
	01347	476044217060			
	01350	222560246425			
	01351	606346602551			
	01352	514651602270			
	01353	606264225146			
	01354	646331452560			
	01355	216360434623			
	01356	216331464560			
	01357	040305603145			
	01360	606330256060			
	01361	606060606060			
	01362	606060606060			
	01363	475125653146			
	01364	646260264651			

FORCE NEW RECORD

ORG 157  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 157  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+68  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

354 FT 64

BCD NO ENTRY IN TIFRED TABLE FOR A VARIABLE FROM AN ASSIGNED GO

BCD TO STATEMENT IN THE COMPILED INSTRUCTIONS.

BCD LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE. STOP MAY BE DUE

BCD TO ERROR BY SUBROUTINE AT LOCATION 435 IN THE

BCD PREVIOUS FORTRAN RECORD, WHICH ACCUMULATES ASSIGNED GO TO EN

01365 635121456051  
01366 252346512473  
01367 606630312330  
01370 602123236444  
01371 644321632562  
01372 602162623127  
01373 452524602746  
01374 606346602545  
01375 635131256260  
01376 216260316360  
01377 512521246260  
01400 632147256002  
01401 602145246066  
01402 513163256260  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 633025446021  
01410 626063302560  
01411 633126512524  
01412 606321224325  
01413 604645602451  
01414 644460013360  
01415 0 00000 0 00000 X  
00000

BCD TRIES AS IT READS TAPE 2 AND WRITES

BCD 6THEM AS THE TIFRED TABLE ON DRUM 1.

END

A

1  
1

ORG 158

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00236 0 01303 0 00236  
 01303 3 00000 0 00236  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01361 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 443162234644  
 01314 473143252460  
 01315 254563517060  
 01316 314560265125  
 01317 636063212243  
 01320 257360632147  
 01321 256002736026  
 01322 314325600573  
 01323 605125234651  
 01324 246001023360  
 01325 604321626360  
 01326 664651246046  
 01327 266051252346  
 01330 512460314563  
 01331 514624642325  
 01332 626060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 452566606263  
 01340 216325442545  
 01341 636045644422  
 01342 255173602264  
 01343 636045466025  
 01344 456351312562  
 01345 602646434346  
 01346 666066303123  
 01347 306066466443  
 01350 246027316525  
 01351 602651255064  
 01352 254523706031  
 01353 452646514421  
 01354 633146456021  
 01355 224664636063  
 01356 302560626321  
 01357 632544254563  
 01360 336060606060  
 01361 0 00000 0 00000 X  
 00000

ORG 158  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 158  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+40  
 TRA DIGRTN  
 BCD 2

711 FT 62

BCD MISCOMPILED ENTRY IN FRET TABLE, TAPE 2, FILE 5, RECORD 12.

BCD LAST WORD OF RECORD INTRODUCES

BCD NEW STATEMENT NUMBER, BUT NO ENTRIES FOLLOW WHICH WOULD GIVE

BCD 8 FREQUENCY INFORMATION ABOUT THE STATEMENT.

A

END

1  
1

	ORG 159	00237	
	00237 0 01303 0	01370	01303
TD	01303 3 00000 0	00237	
	01304 0 07400 4	00740	
	01305 0 01244 0	01237	
	01306 0 07400 4	00740	
	01307 0 01371 0	01311	
	01310 0 02000 0	00221	
	01311 606060606060		
	01312 606060606060		
	01313 443162234644		
	01314 473143252460		
	01315 254563517060		
	01316 314560233163		
	01317 606321224325		
	01320 336060633025		
	01321 606370472560		
	01322 462660626321		
	01323 632544254563		
	01324 602160312660		
	01325 742534604501		
	01326 736045027360		
	01327 450360606060		
	01330 606060606060		
	01331 606060606060		
	01332 606060606060		
	01333 606060606060		
	01334 606060606060		
	01335 606060606060		
	01336 606060606060		
	01337 316260635121		
	01340 456243216325		
	01341 246063466063		
	01342 712573606347		
	01343 436021452460		
	01344 635121336060		
	01345 216063712560		
	01346 302162602225		
	01347 254560264664		
	01350 452460314560		
	01351 632122432560		
	01352 462660234644		
	01353 473143252460		
	01354 314562635164		
	01355 236331464562		
	01356 736060606060		
	01357 606060606060		
	01360 606060606060		
	01361 606060606060		
	01362 606060606060		
	01363 663031233060		
	01364 316260454663		

FORCE NEW RECORD

ORG 159  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 159  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+48  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

556 FT 64

BCD MISCOMPILED ENTRY IN CIT TABLE. THE TYPE OF STATEMENT A IF

BCD (E) N1, N2, N3

BCD IS TRANSLATED TO TZE, TPL AND TRA. A TZE HAS BEEN FOUND IN

BCD TABLE OF COMPILED INSTRUCTIONS,

BCD 6WHICH IS NOT IN THIS SEQUENCE.

L

01365 603145606330  
01366 316260622550  
01367 642545232533  
01370 606060606060  
01371 0 00000 0 00000 X

A

00000

END

```

1      ORG 160
1      00240
00240 0 01303 0 01317
      01303
TD 01303 3 00000 0 00240
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01320 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 443162234644
01314 473143252460
01315 274660634660
01316 626321632544
01317 254563336060
A 01320 0 00000 0 00000 X
      00000

```

```

FORCE NEW RECORD
ORG 160
HTR X-1,0,LOCREC
ORG LOCREC
TXH 160
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+7
TRA DIGRTN
BCD 2
BCD 5MISCOMPILED GO TO STATEMENT.
END

```

```

FORCE NEW RECORD
CARD FOR DE
3001 FT 88

```

1  
 1           ORG 161           00241  
           00241 0 01303 0 01317  
                                   01303  
 TD       01303 3 00000 0 00241  
           01304 0 07400 4 00740  
           01305 0 01244 0 01237  
           01306 0 07400 4 00740  
           01307 0 01320 0 01311  
           01310 0 02000 0 00221  
           01311 606060606060   PR  
           01312 606060606060  
           01313 443162234644  
           01314 473143252460  
           01315 312660626321  
           01316 632544254563  
           01317 336060606060  
           01320 0 00000 0 00000 X  
                                   00000

FORCE NEW RECORD  
 ORG 161           FORCE NEW RECORD  
 HTR X-1,0,LOCREC   CARD FOR DE  
 ORG LOCREC  
 TXH 161           3253 FT 88  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+7  
 TRA DIGRTN  
 BCD 2  
 BCD 5MISCOMPILED IF STATEMENT.  
 END

A

1  
 1  
 TD  
 00242 0 01303 0 00242  
 01303 3 00000 0 00242  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01332 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 443162234644  
 01314 473143252460  
 01315 452144253360  
 01316 603144474662  
 01317 623122432560  
 01320 222324602330  
 01321 215121236325  
 01322 516021626063  
 01323 302560263151  
 01324 626360233021  
 01325 512123632551  
 01326 603145602160  
 01327 627044224643  
 01330 312360212424  
 01331 512562623360  
 01332 0 00000 0 00000 X  
 .00000

FORCE NEW RECORD  
 ORG 162  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 162 345 FT 5  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+17  
 TRA DIGRTN  
 BCD 2  
 BCD MISCOMPILED NAME. IMPOSSIBLE BCD CHARACTER AS THE FIRST CHA  
 BCD SRACTER IN A SYMBOLIC ADDRESS.  
 END

A



1  
 1  
 TD  
 A  
 ORG 163  
 00243 0 01303 0 00243  
 01303 3 00000 0 00243  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01317 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 443162234644  
 01314 473143252460  
 01315 627045464570  
 01316 443360606060  
 01317 0 00000 0 00000 X  
 00000

FORCE NEW RECORD  
 ORG 163  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 163  
 163  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+6  
 TRA DIGRTN  
 BCD 2  
 BCD 4MISCOMPILED SYNONYM.  
 END  
 FORCE NEW RECORD  
 CARD FOR DE  
 443 FT 103  
 520 FT 113

1  
 1  
 TD  
 00244 0 01303 0 01324  
 01303 3 00000 0 00244  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01325 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 443162234644  
 01314 473143252460  
 01315 452144253360  
 01316 602646516264  
 01317 226025456351  
 01320 706045466360  
 01321 314560627044  
 01322 224643606321  
 01323 224325336060  
 01324 606060606060  
 01325 0 00000 0 00000 X  
 A 00000

FORCE NEW RECORD  
 ORG 164  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 164  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+12  
 TRA DIGRTN  
 BCD 2  
 252 FT 105  
 BCD MISCOMPILED NAME. FORSUB ENTRY NOT IN SYMBOL TABLE.  
 END.

1  
 1  
 TD  
 A  
 1  
 1  
 00245 0 01303 0 00245  
 01303 3 00000 0 00245  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01324 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 443162234644  
 01314 473143252460  
 01315 452144253360  
 01316 652151312122  
 01317 432560452144  
 01320 256045466360  
 01321 314560627044  
 01322 224643606321  
 01323 224325336060  
 01324 0 00000 0 00000 X  
 00000

FORCE NEW RECORD  
 ORG 165  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 165  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+11  
 TRA DIGRTN  
 BCD 2  
 312 FT 113  
 BCD 9MISCOMPILED NAME. VARIABLE NAME NOT IN SYMBOL TABLE.  
 END

```

1          ORG 166
1          00246 0 01303 0 01332 00246
          01303 3 00000 0 00246 01303
TD          01304 0 07400 4 00740
          01305 0 01244 0 01237
          01306 0 07400 4 00740
          01307 0 01333 0 01311
          01310 0 02000 0 00221
          01311 606060606060 PR
          01312 606060606060
          01313 314524256760
          01314 512527316263
          01315 255160264651
          01316 602364515125
          01317 456360632127
          01320 603021626045
          01321 466360222525
          01322 456023304662
          01323 254533606043
          01324 462731236046
          01325 266047514627
          01326 512144604421
          01327 422562606330
          01330 316260314447
          01331 466262312243
          01332 253360606060
          01333 0 00000 0 00000 X
A          00000

```

```

FORCE NEW RECORD
ORG 166
HTR X-1,0,LOCREC
ORG LOCREC
TXH 166          661 FT 75
                1022 FT 75
                166
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+18
TRA DIGRTN
BCD 2

```

BCD INDEX REGISTER FOR CURRENT TAG HAS NOT BEEN CHOSEN. LOGIC 0

BCD 6F PROGRAM MAKES THIS IMPOSSIBLE.

END

1  
1  
ORG 167  
00247 0 01303 0 01355  
01303  
TD 01303 3 00000 0 00247  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01356 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 626422514664  
01314 633145256021  
01315 636043462321  
01316 633146456002  
01317 070660302162  
01320 602163632544  
01321 476325246063  
01322 466051252124  
01323 602145466330  
01324 255160226426  
01325 262551604626  
01326 606330256026  
01327 512563606321  
01330 224325604645  
01331 602451644460  
01332 023360602160  
01333 475125653146  
01334 646260606060  
01335 606060606060  
01336 606060606060  
01337 472162626063  
01340 305146642730  
01341 606330316260  
01342 514664633145  
01343 256030216260  
01344 622563602160  
01345 623127452143  
01346 606346606230  
01347 466660633021  
01350 636021434360  
01351 265125636025  
01352 456351312562  
01353 602151256031  
01354 456023465125  
01355 336060606060  
01356 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 167  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 167  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+37  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

301 FT 67

BCD SUBROUTINE AT LOCATION 276 HAS ATTEMPTED TO READ ANOTHER BUF

BCD FER OF THE FRET TABLE ON DRUM 2. A PREVIOUS

BCD PASS THROUGH THIS ROUTINE HAS SET A SIGNAL TO SHOW THAT ALL

BCD 5FRET ENTRIES ARE IN CORE.

END

A

1  
1  
ORG 168  
00250 0 01303 0 01357  
01303 3 00000 0 00250  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01360 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 626422514664  
01314 633145256021  
01315 636043462321  
01316 633146456003  
01317 000604603021  
01320 626021636325  
01321 444763252460  
01322 634660512521  
01323 246021454663  
01324 302551602264  
01325 262625516046  
01326 266063302560  
01327 633126512460  
01330 632122432560  
01331 265146446024  
01332 516444600133  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 216047512565  
01340 314664626047  
01341 216262606330  
01342 514664273060  
01343 633031626051  
01344 466463314525  
01345 603021626062  
01346 256360216062  
01347 312745214360  
01350 634660623046  
01351 666063302163  
01352 602143436063  
01353 312651246025  
01354 456351312562  
01355 602151256031  
01356 456023465125  
01357 336060606060  
01360 0 00000 0 00000 X  
00000

FORCE NEW RECORD

ORG 168  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 168  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+39  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
3064 FT 64

BCD SUBROUTINE AT LOCATION 3064 HAS ATTEMPTED TO READ ANOTHER BU

BCD FFER OF THE TIFRD TABLE FROM DRUM 1.

BCD A PREVIOUS PASS THROUGH THIS ROUTINE HAS SET A SIGNAL TO SHO

BCD 7W THAT ALL TIFRD ENTRIES ARE IN CORE.

END

```

1
1
    ORG 169
00251 0 01303 0 01327
    01303
TD 01303 3 00000 0 00251

01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01330 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 472551446463
01314 216331464560
01315 456444222551
01316 604421632330
01317 604546636026
01320 466445243360
01321 604346273123
01322 604626604751
01323 462751214460
01324 442142256260
01325 633031626031
01326 444746626231
01327 224325336060
01330 0 00000 0 00000 X
    00000
A

```

```

FORCE NEW RECORD
ORG 169
HTR X-1,0,LOCREC
ORG LOCREC
TXH 169
    169
    169
    169
    169
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+15
TRA DIGRTN
BCD 2

FORCE NEW RECORD
CARD FOR DE
    762 FT 75
    1634 FT 75
    1777 FT 75
    4031 FT 75
    4303 FT 75

BCD PERMUTATION NUMBER MATCH NOT FOUND. LOGIC OF PROGRAM MAKES

BCD 3THIS IMPOSSIBLE.

END

```

1  
1  
TD

	ORG 170	00252	
00252	0 01303 0	01416	
		01303	
01303	3 00000 0	00252	
01304	0 07400 4	00740	
01305	0 01244 0	01237	
01306	0 07400 4	00740	
01307	0 01417 0	01311	
01310	0 02000 0	00221	
01311	606060606060		PR
01312	606060606060		
01313	255151465160		
01314	314560234644		
01315	476463314527		
01316	602330252342		
01317	606264446046		
01320	266026434623		
01321	464560632122		
01322	432533606063		
01323	303162606321		
01324	224325602346		
01325	456231626362		
01326	604626602243		
01327	462342626046		
01330	266026312663		
01331	706066465124		
01332	627360252123		
01333	306022434623		
01334	426060606060		
01335	606060606060		
01336	606060606060		
01337	475125232524		
01340	252460227060		
01341	316362604666		
01342	456023302523		
01343	426062644433		
01344	606063302560		
01345	212343603145		
01346	626351642363		
01347	314645602163		
01350	604346232163		
01351	314645600102		
01352	060160302162		
01353	604731234225		
01354	246064476063		
01355	302560233025		
01356	234260626444		
01357	604626606060		
01360	606060606060		
01361	606060606060		
01362	606060606060		
01363	633025604525		
01364	676360224346		

FORCE NEW RECORD  
 ORG 170  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 170  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+70  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 1307 FT 22

BCD ERROR IN COMPUTING CHECK SUM OF FLOCON TABLE. THIS TABLE CO

BCD NSISTS OF BLOCKS OF FIFTY WORDS, EACH BLOCK

BCD PRECEDED BY ITS OWN CHECK SUM. THE ACL INSTRUCTION AT LOCAT

BCD ION 1261 HAS PICKED UP THE CHECK SUM OF

BCD THE NEXT BLOCK AND THE TNX INSTRUCTION AT 1263 SHOWS THAT TH



01365 234260214524  
01366 606330256063  
01367 456760314562  
01370 635164236331  
01371 464560216360  
01372 010206036062  
01373 304666626063  
01374 302163606330  
01375 255125602151  
01376 256045466025  
01377 456351312562  
01400 603145606330  
01401 256022434623  
01402 423360606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 633025604346  
01410 273123604626  
01411 606330256047  
01412 514627512144  
01413 604421422562  
01414 606330316260  
01415 314447466262  
01416 312243253360  
01417 0 00000 0 00000 X  
                  00000

BCD HERE ARE NO ENTRIES IN THE BLOCK.

BCD 8THE LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE.

END

A

1  
1  
1  
TD  
A

ORG 171				00253
00253	0	01303	0	01357
				01303
01303	3	00000	0	00253
01304	0	07400	4	00740
01305	0	01244	0	01237
01306	0	07400	4	00740
01307	0	01360	0	01311
01310	0	02000	0	00221
01311	606060606060			
01312	606060606060			
01313	314447466262			
01314	312243256063			
01315	512145622625			
01316	516063466026			
01317	315162636031			
01320	456263516423			
01321	633146456026			
01322	464343466631			
01323	452760232162			
01324	603145626351			
01325	642363314645			
01326	602163604346			
01327	232163314645			
01330	600100070533			
01331	606063435060			
01332	314562635164			
01333	236331464560			
01334	606060606060			
01335	606060606060			
01336	606060606060			
01337	216360434623			
01340	216331464560			
01341	010007036030			
01342	216260416462			
01343	636047514665			
01344	252460633021			
01345	636066465124			
01346	602651464460			
01347	434623216331			
01350	464560010400			
01351	066031626043			
01352	256262606330			
01353	214560664651			
01354	246031456043			
01355	462321633146			
01356	456001040100			
01357	336060606060			
01360	0	00000	0	00000 X
				00000

FORCE NEW RECORD  
 ORG 171  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 171  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+39  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
 CARD FOR DE  
 1076 FT 45

BCD IMPOSSIBLE TRANSFER TO FIRST INSTRUCTION FOLLOWING CAS INSTR

BCD UCTION AT LOCATION 1075. TLQ INSTRUCTION

BCD AT LOCATION 1073 HAS JUST PROVED THAT WORD FROM LOCATION 140

BCD 76 IS LESS THAN WORD IN LOCATION 1410.

END

```

1      ORG 172
1      00254 0 01303 0 00254
      01303
TD     01303 3 00000 0 00254
      01304 0 07400 4 00740
      01305 0 01244 0 01237
      01306 0 07400 4 00740
      01307 0 01360 0 01311
      01310 0 02000 0 00221
      01311 606060606060 PR
      01312 606060606060
      01313 314447466262
      01314 312243256063
      01315 512145622625
      01316 516063466026
      01317 315162636031
      01320 456263516423
      01321 633146456026
      01322 464343466631
      01323 452760232162
      01324 603145626351
      01325 642363314645
      01326 602163604346
      01327 232163314645
      01330 600406020233
      01331 606063435060
      01332 314562635164
      01333 236331464560
      01334 606060606060
      01335 606060606060
      01336 606060606060
      01337 216360434623
      01340 216331464560
      01341 040602006030
      01342 216260416462
      01343 636047514665
      01344 252460633021
      01345 636066465124
      01346 602651464460
      01347 434623216331
      01350 464560050204
      01351 036031626043
      01352 256262606330
      01353 214560664651
      01354 246031456043
      01355 462321633146
      01356 456005020406
      01357 336060606060
      01360 0 00000 0 00000 X
      00000

```

```

FORCE NEW RECORD
ORG 172
HTR X-1,0,LOCREC
ORG LOCREC
TXH 172
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+39
TRA DIGRTN
BCD 2
FORCE NEW RECORD
CARD FOR DE
4623 FT 51
BCD IMPOSSIBLE TRANSFER TO FIRST INSTRUCTION FOLLOWING CAS INSTR
BCD UCTION AT LOCATION 4622. TLQ INSTRUCTION
BCD AT LOCATION 4620 HAS JUST PROVED THAT WORD FROM LOCATION 524
BCD 73 IS LESS THAN WORD IN LOCATION 5246.

```

END

```

1
1
    ORG 173
00255  0 01303 0 01333
          01303
TD 01303  3 00000 0 00255
01304  0 07400 4 00740
01305  0 01244 0 01237
01306  0 07400 4 00740
01307  0 01334 0 01311
01310  0 02000 0 00221
01311  606060606060 PR
01312  606060606060
01313  314447466262
01314  312243256025
01315  515146516051
01316  256364514560
01317  265146446062
01320  642251466463
01321  314525602163
01322  604346232163
01323  314645600505
01324  060633606043
01325  462731236046
01326  266047514627
01327  512144604421
01330  422562606330
01331  316260314447
01332  466262312243
01333  253360606060
01334  0 00000 0 00000 X
          00000
A

```

```

FORCE NEW RECORD
ORG 173
HTR X-1,0,LOCREC
ORG LOCREC
TXH 173
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+19
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
5232 FT 34

```

BCD IMPOSSIBLE ERROR RETURN FROM SUBROUTINE AT LOCATION 5566. L

BCD 7OGIC OF PROGRAM MAKES THIS IMPOSSIBLE.

END

```

1
1
    ORG 174
00256 0 01303 0 00256
    01303
TD 01303 3 00000 0 00256
    01304 0 07400 4 00740
    01305 0 01244 0 01237
    01306 0 07400 4 00740
    01307 0 01350 0 01311
    01310 0 02000 0 00221
    01311 606060606060 PR
    01312 606060606060
    01313 314447466262
    01314 312243256025
    01315 506421433163
    01316 706023464524
    01317 316331464560
    01320 212663255160
    01321 232162603145
    01322 626351642363
    01323 314645602163
    01324 604346232163
    01325 314645600401
    01326 020260663031
    01327 233060234644
    01330 472151256260
    01331 606060606060
    01332 606060606060
    01333 606060606060
    01334 606060606060
    01335 606060606060
    01336 606060606060
    01337 314563255145
    01340 214360264651
    01341 446443216045
    01342 644422255162
    01343 604626602431
    01344 262625512545
    01345 636062632163
    01346 254425456362
    01347 336060606060
    01350 0 00000 0 00000 X
        00000
A

```

```

FORCE NEW RECORD
ORG 174
HTR X-1,0,LOCREC
ORG LOC REC
TXH 174
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+31
TRA DIGRTN
BCD 2
BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT

BCD ION 4122 WHICH COMPARES

BCD 9INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS.

END

```

```

FORCE NEW RECORD
CARD FOR DE
4124 FT 51

```

1  
1  
ORG 175  
00257 0 01303 0 00257  
01303 3 00000 0 00257  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01350 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 314447466262  
01314 312243256025  
01315 506421433163  
01316 706023464524  
01317 316331464560  
01320 212663255160  
01321 232162603145  
01322 626351642363  
01323 314645602163  
01324 604346232163  
01325 314645600401  
01326 050560663031  
01327 233060234644  
01330 472151256260  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 314563255145  
01340 214360264651  
01341 446443216045  
01342 644422255162  
01343 604626602431  
01344 262625512545  
01345 636062632163  
01346 254425456362  
01347 336060606060  
01350 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 175  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 175  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+31  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
4157 FT 51

BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT

BCD ION 4155 WHICH COMPARES

BCD 9INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS.

END

A

1  
1  
ORG 176  
00260 0 01303 0 01347 00260  
01303 01303  
TD 01303 3 00000 0 00260  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01350 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 314447466262  
01314 312243256025  
01315 506421433163  
01316 706023464524  
01317 316331464560  
01320 212663255160  
01321 232162603145  
01322 626351642363  
01323 314645602163  
01324 604346232163  
01325 314645600404  
01326 000360663031  
01327 233060234644  
01330 472151256260  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 314563255145  
01340 214360264651  
01341 446443216045  
01342 644422255162  
01343 604626602431  
01344 262625512545  
01345 636062632163  
01346 254425456362  
01347 336060606060  
01350 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 176  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 176 4405 FT 34  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+31  
TRA DIGRTN  
BCD 2  
  
BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT  
  
BCD ION 4403 WHICH COMPARES  
  
BCD 9INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS.  
  
END

A

1  
1  
ORG 177  
00261 0 01303 0 01347 00261  
01303 3 00000 0 00261 01303  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01350 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 314447466262  
01314 312243256025  
01315 506421433163  
01316 706023464524  
01317 316331464560  
01320 212663255160  
01321 232162603145  
01322 626351642363  
01323 314645602163  
01324 604346232163  
01325 314645600405  
01326 030160663031  
01327 233060234644  
01330 472151256260  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 314563255145  
01340 214360264651  
01341 446443216045  
01342 644422255162  
01343 604626602431  
01344 262625512545  
01345 636062632163  
01346 254425456362  
01347 336060606060  
01350 0 00000 0 00000 X  
00000

FORCE NEW RECORD  
ORG 177  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 177  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+31  
TRA DIGRTN  
BCD 2  
BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT  
BCD ION 4531 WHICH COMPARES  
BCD 9 INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS.  
END

FORCE NEW RECORD  
CARD FOR DE

4533 FT 51



1  
 1  
 TD  
 A  
 1  
 1  
 00262 0 01303 0 01347  
 01303 3 00000 0 00262  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01350 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 314447466262  
 01314 312243256025  
 01315 506421433163  
 01316 706023464524  
 01317 316331464560  
 01320 212663255160  
 01321 232162603145  
 01322 626351642363  
 01323 314645602163  
 01324 604346232163  
 01325 314645600507  
 01326 010760663031  
 01327 233060234644  
 01330 472151256260  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 314563255145  
 01340 214360264651  
 01341 446443216045  
 01342 644422255162  
 01343 604626602431  
 01344 262625512545  
 01345 636062632163  
 01346 254425456362  
 01347 336060606060  
 01350 0 00000 0 00000 X  
 00000

FORCE NEW RECORD  
 ORG 178  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 178  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+31  
 TRA DIGRTN  
 BCD 2  
 FORCE NEW RECORD  
 CARD FOR DE  
 5721 FT 27  
 BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT  
 BCD ION 5717 WHICH COMPARES  
 BCD 9INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS.  
 END

```

1      ORG 179
1      00263 0 01303 0 01347 00263
      01303 00263
TD     01303 3 00000 0 00263

01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01350 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 314447466262
01314 312243256025
01315 506421433163
01316 706023464524
01317 316331464560
01320 212663255160
01321 232162603145
01322 626351642363
01323 314645602163
01324 604346232163
01325 314645600602
01326 050160465160
01327 060205043360
01330 514664633145
01331 256021452143
01332 706225626024
01333 312626255125
01334 456360606060
01335 606060606060
01336 606060606060
01337 626422622351
01340 314763626021
01341 266325516024
01342 644743312321
01343 632562603021
01344 652560222525
01345 456025433144
01346 314521632524
01347 336060606060
01350 0 00000 0 00000 X
      00000

```

```

FORCE NEW RECORD
ORG 179
HTR X-1,0,LOCREC
ORG LOCREC
TXH 179
      179
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+31
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
6253 FT 32
6256 FT 32

```

BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT

BCD ION 6251 OR 6254. ROUTINE ANALYSES DIFFERENT

BCD 9SUBSCRIPTS AFTER DUPLICATES HAVE BEEN ELIMINATED.

A

END

1  
1

TD

A

ORG 180  
 00264 0 01303 0 01347  
 01303 3 00000 0 00264  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01350 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 314447466262  
 01314 312243256025  
 01315 506421433163  
 01316 706023464524  
 01317 316331464560  
 01320 212663255160  
 01321 232162603145  
 01322 626351642363  
 01323 314645602163  
 01324 604346232163  
 01325 314645600606  
 01326 030360663031  
 01327 233060234644  
 01330 472151256260  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 314563255145  
 01340 214360264651  
 01341 446443216045  
 01342 644422255162  
 01343 604626602431  
 01344 262625512545  
 01345 636062632163  
 01346 254425456362  
 01347 336060606060  
 01350 0 00000 0 00000 X  
 00000

FORCE NEW RECORD

ORG 180  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 180  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+31  
 TRA DIGRTN  
 BCD 2

FORCE NEW RECORD  
CARD FOR DE

6635 FT 27

BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT

BCD ION 6633 WHICH COMPARES

BCD 9INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS.

END

1  
 1  
 TD  
 A  
 1  
 1  
 00265 0 01303 0 00265  
 01303 3 00000 0 00265  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01350 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 314447466262  
 01314 312243256025  
 01315 506421433163  
 01316 706023464524  
 01317 316331464560  
 01320 212663255160  
 01321 232162603145  
 01322 626351642363  
 01323 314645602163  
 01324 604346232163  
 01325 314645600700  
 01326 020160663031  
 01327 233060234644  
 01330 472151256260  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 314563255145  
 01340 214360264651  
 01341 446443216045  
 01342 644422255162  
 01343 604626602431  
 01344 262625512545  
 01345 636062632163  
 01346 254425456362  
 01347 606060606060  
 01350 0 00000 0 00000 X  
 00000

FORCE NEW RECORD  
 ORG 181  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 181  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+31  
 TRA DIGRTN  
 BCD 2  
 BCD IMPOSSIBLE EQUALITY CONDITION AFTER CAS INSTRUCTION AT LOCAT

BCD ION 7021 WHICH COMPARES

BCD 9INTERNAL FORMULA NUMBERS OF DIFFERENT STATEMENTS

END



```

1          ORG 183
1          00267 0 01303 0 01346
          01303 3 00000 0 00267
TD 01304 0 07400 4 00740
   01305 0 01244 0 01237
   01306 0 07400 4 00740
   01307 0 01347 0 01311
   01310 0 02000 0 00221
   01311 606060606060 PR
   01312 606060606060
   01313 243165316231
   01314 464560314562
   01315 635164236331
   01316 464562602225
   01317 273145453145
   01320 276021636043
   01321 462321633146
   01322 456004020160
   01323 302165256045
   01324 466360222525
   01325 456025672523
   01326 646325243360
   01327 606060606060
   01330 606060606060
   01331 606060606060
   01332 606060606060
   01333 606060606060
   01334 606060606060
   01335 606060606060
   01336 606060606060
   01337 434627312360
   01340 462660633025
   01341 604751462751
   01342 214460442142
   01343 256260633031
   01344 626031444746
   01345 626231224325
   01346 336060606060
A 01347 0 00000 0 00000 X
          00000

```

```

FORCE NEW RECORD
ORG 183
HTR X-1,0,LOCREC
ORG LOCREC
TXH 183
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+30
TRA DIGRTN
BCD 2

```

```

FORCE NEW RECORD
CARD FOR DE
425 FT 73

```

BCD DIVISION INSTRUCTIONS BEGINNING AT LOCATION 421 HAVE NOT BEE

BCD N EXECUTED.

BCD 8LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE.

END

1307

1  
1  
ORG 184 00270  
00270 0 01303 0 01346  
01303  
TD 01303 3 00000 0 00270  
01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01347 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 243165316231  
01314 464560314562  
01315 635164236331  
01316 464562602225  
01317 273145453145  
01320 276021636043  
01321 462321633146  
01322 456005000160  
01323 302165256045  
01324 466360222525  
01325 456025672523  
01326 646325243360  
01327 606060606060  
01330 606060606060  
01331 606060606060  
01332 606060606060  
01333 606060606060  
01334 606060606060  
01335 606060606060  
01336 606060606060  
01337 434627312360  
01340 462660633025  
01341 604751462751  
01342 214460442142  
01343 256260633031  
01344 626031444746  
01345 626231224325  
01346 336060606060  
01347 0 00000 0 00000 X  
A 00000

FORCE NEW RECORD  
ORG 184  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 184  
TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+30  
TRA DIGRTN  
BCD 2

FORCE NEW RECORD  
CARD FOR DE  
510 FT 73

BCD DIVISION INSTRUCTIONS BEGINNING AT LOCATION 501 HAVE NOT BEE

BCD N EXECUTED.

BCD 8LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE.

END

1  
1

ORG 185

FORCE NEW RECORD

00271 0 01303 0 00271  
 01303 3 00000 0 00271  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01347 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060  
 01312 606060606060  
 01313 243165316231  
 01314 464560314562  
 01315 635164236331  
 01316 464562602225  
 01317 273145453145  
 01320 276021636043  
 01321 462321633146  
 01322 456001020206  
 01323 603021652560  
 01324 454663602225  
 01325 254560256725  
 01326 236463252433  
 01327 606060606060  
 01330 606060606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 434627312360  
 01340 462660633025  
 01341 604751462751  
 01342 214460442142  
 01343 256260633031  
 01344 626031444746  
 01345 626231224325  
 01346 336060606060  
 01347 0 00000 0 00000 X  
 00000

PR

ORG 185

FORCE NEW RECORD

HTR X-1,0,LOCREC

CARD FOR DE

ORG LOCREC

1234 FT 62

TXH 185

TSX PRINT,4

HTR MACHIN,0,MACHIN+5

TSX PRINT,4

HTR PR,0,PR+30

TRA DIGRTN

BCD 2

BCD DIVISION INSTRUCTIONS BEGINNING AT LOCATION 1226 HAVE NOT BE

BCD EN EXECUTED.

BCD 8LOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE.

END

A



1  
1

ORG 186

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00272 0 01303 0 01346 00272  
 01303 3 00000 0 00272 01303  
 01304 0 07400 4 00740  
 01305 0 01244 0 01237  
 01306 0 07400 4 00740  
 01307 0 01347 0 01311  
 01310 0 02000 0 00221  
 01311 606060606060 PR  
 01312 606060606060  
 01313 243165316231  
 01314 464560314562  
 01315 635164236331  
 01316 464562602225  
 01317 273145453145  
 01320 276021636043  
 01321 462321633146  
 01322 456001020503  
 01323 603021652560  
 01324 454663602225  
 01325 254560256725  
 01326 236463252433  
 01327 606060606060  
 01330 606060606060  
 01331 606060606060  
 01332 606060606060  
 01333 606060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 434627312360  
 01340 462660633025  
 01341 604751462751  
 01342 214460442142  
 01343 256260633031  
 01344 626031444746  
 01345 626231224325  
 01346 336060606060  
 01347 0 00000 0 00000 X  
 00000

ORG 186  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 186  
 TSX PRINT,4  
 HTR MACHIN,0,MACHIN+5  
 TSX PRINT,4  
 HTR PR,0,PR+30  
 TRA DIGRTN  
 BCD 2

1261 FT 62

BCD DIVISION INSTRUCTIONS BEGINNING AT LOCATION 1253 HAVE NOT BE

BCD EN EXECUTED.

BCD BLOGIC OF THE PROGRAM MAKES THIS IMPOSSIBLE.

END

A

```

1
1
    ORG 187
00273 0 01303 0 01325 00273
          01303
TD 01303 3 00000 0 00273
01304 0 07400 4 00740
01305 0 01244 0 01237
01306 0 07400 4 00740
01307 0 01326 0 01311
01310 0 02000 0 00221
01311 606060606060 PR
01312 606060606060
01313 243165312425
01314 602330252342
01315 336060434627
01316 312360462660
01317 475146275121
01320 446031626062
01321 642330606330
01322 216360633031
01323 626031626031
01324 444746626231
01325 224325336060
A 01326 0 00000 0 00000 X
          00000

```

```

FORCE NEW RECORD
ORG 187
HTR X-1,0,LOCREC
ORG LOCREC
TXH 187
TSX PRINT,4
HTR MACHIN,0,MACHIN+5
TSX PRINT,4
HTR PR,0,PR+13
TRA DIGRTN
BCD 2
BCD DIVIDE CHECK. LOGIC OF PROGRAM IS SUCH THAT THIS IS IMPOSSI

BCD 1BLE.
END

```

```

FORCE NEW RECORD
CARD FOR DE
2230 FT 75

```

1  
1  
ORG 188  
00274 0 01303 0 01472  
01303  
TD 01303 3 00000 0 00274

FORCE NEW RECORD  
ORG 188  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 188 377 FT 56  
188 424 FT 56  
188 613 FT 56  
188 654 FT 56  
188 1000 FT 56  
188 1115 FT 56  
188 1320 FT 56  
188 1531 FT 56  
188 1767 FT 56  
188 7143 FT 56  
188 132 FT 60  
188 173 FT 60  
188 227 FT 60  
188 252 FT 60  
188 334 FT 60  
188 423 FT 60  
188 442 FT 60  
188 521 FT 60  
188 544 FT 60  
188 305 FT 60  
188 363 FT 60

FORCE NEW RECORD  
CARD FOR DE

01304 0 07400 4 00740  
01305 0 01244 0 01237  
01306 0 07400 4 00740  
01307 0 01473 0 01311  
01310 0 02000 0 00221  
01311 606060606060 PR  
01312 606060606060  
01313 262131436451  
01314 256046266023  
01315 216260314562  
01316 635164236331  
01317 464560465160  
01320 314524256760  
01321 512527316263  
01322 255162603145  
01323 602567214431  
01324 453145276004  
01325 606646512460  
01326 254563517060  
01327 265146446046  
01330 452560462660  
01331 633025605125  
01332 234651246260  
01333 433162632524  
01334 336060606060  
01335 606060606060  
01336 606060606060  
01337 254563517060  
01340 316260623046

TSX PRINT,4  
HTR MACHIN,0,MACHIN+5  
TSX PRINT,4  
HTR PR,0,PR+114  
TRA DIGRTN  
BCD 2

BCD FAILURE OF CAS INSTRUCTION OR INDEX REGISTERS IN EXAMINING 4

BCD WORD ENTRY FROM ONE OF THE RECORDS LISTED.

BCD ENTRY IS SHOWN TO BE GREATER THAN 4 WORDS. LOGIC OF THE PRO

01341 664560634660  
01342 222560275125  
01343 216325516063  
01344 302145600460  
01345 664651246233  
01346 606043462731  
01347 236046266063  
01350 302560475146  
01351 275121446044  
01352 214225626063  
01353 303162603144  
01354 474662623122  
01355 432533606060  
01356 606060606060  
01357 606060606060  
01360 606060606060  
01361 606060606060  
01362 606060606060  
01363 606060606060  
01364 606060606060  
01365 233163605125  
01366 234651247360  
01367 632147256002  
01370 736026314325  
01371 600260606060  
01372 606060606060  
01373 606060606060  
01374 606060606060  
01375 606060606060  
01376 606060606060  
01377 606060606060  
01400 606060606060  
01401 606060606060  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 606060606060  
01410 606060606060  
01411 234644472446  
01412 605125234651  
01413 247360632147  
01414 256004736026  
01415 314325600260  
01416 606060606060  
01417 606060606060  
01420 606060606060  
01421 606060606060  
01422 606060606060  
01423 606060606060  
01424 606060606060  
01425 606060606060  
01426 606060606060

BCD GRAM MAKES THIS IMPOSSIBLE.

BCD 2

BCD CIT RECORD, TAPE 2, FILE 2

BCD

BCD COMPDO RECORD, TAPE 4, FILE 2

BCD

01427 606060606060  
01430 606060606060  
01431 606060606060  
01432 606060606060  
01433 606060606060  
01434 606060606060  
01435 244626314322  
01436 605125234651  
01437 247360632147  
01440 256002736026  
01441 314325601060  
01442 606060606060  
01443 606060606060  
01444 606060606060  
01445 606060606060  
01446 606060606060  
01447 606060606060  
01450 606060606060  
01451 606060606060  
01452 606060606060  
01453 606060606060  
01454 606060606060  
01455 606060606060  
01456 606060606060  
01457 606060606060  
01460 606060606060  
01461 442551272524  
01462 602346444721  
01463 314360214524  
01464 602346444724  
01465 466051252346  
01466 512462736063  
01467 214725600373  
01470 602631432560  
01471 016060606060  
01472 606060606060  
01473 0 00000 0 00000 X  
00000

BCD DOFILB RECORD, TAPE 2, FILE 8

BCD

BCD MERGED COMPAIL AND COMPDO RECORDS, TAPE 3, FILE 1

END

A

1  
1

	ORG 189		00275
	00275	0 01303 0	01420
			01303
TD	01303	3 00000 0	00275
	01304	0 07400 4	00740
	01305	0 01252 0	01244
	01306	0 76200 0	00304
	01307	0 46000 0	01320
	01310	0 70000 0	00527
	01311	0 70000 0	00530
	01312	0 07400 4	00740
	01313	0 01361 0	01321
	01314	0 07400 4	00505
	01315	0 07400 4	00740
	01316	0 01421 0	01361
	01317	0 02000 0	00272
	01320	0 00000 0	00031 A
	01321	606060606060	PR
	01322	606060606060	
	01323	214560314563	
	01324	255144252431	
	01325	216325602346	
	01326	512560632122	
	01327	432560316260	
	01330	266443433360	
	01331	606330256062	
	01332	642262235131	
	01333	476360234644	
	01334	223145216331	
	01335	464562602145	
	01336	246026434666	
	01337	606263516423	
	01340	636451256060	
	01341	606060606060	
	01342	606060606060	
	01343	606060606060	
	01344	606060606060	
	01345	606060606060	
	01346	606060606060	
	01347	215125606346	
	01350	466023464447	
	01351	432567606631	
	01352	633031456021	
	01353	602446604525	
	01354	626333606063	
	01355	302560626321	
	01356	632544254563	
	01357	606060606060	
	01360	606060606060	
	01361	606060606060	PR1
	01362	606060606060	

FORCE NEW RECORD

ORG 189  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 189  
189  
189  
TSX PRINT,4  
HTR SOURCE,0,SOURCE+6  
RDR 4  
LDA A  
CPY ALFBET  
CPY SYM  
TSX PRINT,4  
HTR PR,0,PR+32  
TSX FX4PR,4  
TSX PRINT,4  
HTR PR1,0,PR1+32  
TRA SPEND  
HTR831  
BCD 2

FORCE NEW RECORD  
CARD FOR DE

6063 FT 32  
6475 FT 32  
5273 FT 34

BCD AN INTERMEDIATE CORE TABLE IS FULL. THE SUBSCRIPT COMBINATI

BCD ONS AND FLOW STRUCTURE

BCD ARE TOO COMPLEX WITHIN A DO NEST. THE STATEMENT

BCD 2

L

01363 316260633025  
01364 604664632551  
01365 444662636024  
01366 466046266063  
01367 302560452562  
01370 636066303123  
01371 306030216260  
01372 232164622524  
01373 606330256046  
01374 652551264346  
01375 663360605125  
01376 665131632560  
01377 452562636021  
01400 452460623144  
01401 474331267060  
01402 606060606060  
01403 606060606060  
01404 606060606060  
01405 606060606060  
01406 606060606060  
01407 626422622351  
01410 314763602346  
01411 442231452163  
01412 314645626046  
01413 516026434666  
01414 606263516423  
01415 636451253360  
01416 606060606060  
01417 606060606060  
01420 606060606060  
01421 0 00000 0 00000 X  
00000

BCD IS THE OUTERMOST DO OF THE NEST WHICH HAS CAUSED THE OVERFLO

BCD W. REWRITE NEST AND SIMPLIFY

BCD SUBSCRIPT COMBINATIONS OR FLOW STRUCTURE.

A  
END

1  
1

ORG 190

FORCE NEW RECORD

FORCE NEW RECORD  
CARD FOR DE

TD

00276 0 01303 0 00276  
 01303 3 00000 0 00276  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 50000 0 01227  
 07513 IDWD  
 01307 -0 32000 0 07513  
 01310 0 60100 0 01257  
 01311 0 53400 1 01232  
 01312 0 50000 1 01464 SEARCH  
 01313 0 40200 0 01257  
 01314 0 10000 0 01441  
 01315 1 77776 1 01316  
 01316 3 77740 1 01312 A  
 01317 0 07400 4 00740  
 01320 0 01441 0 01323  
 01321 0 00000 0 01322  
 01322 0 02000 0 00221 E  
 01323 606060606060 ER  
 01324 606060606060  
 01325 216063212243  
 01326 256023464447  
 01327 314325246022  
 01330 706062252363  
 01331 314645600160  
 01332 475131442560  
 01333 302162602567  
 01334 232525242524  
 01335 606330256022  
 01336 642626255160  
 01337 623171253360  
 01340 606330316260  
 01341 243121274546  
 01342 626331236051  
 01343 252346512460  
 01344 234644472151  
 01345 256260606060  
 01346 606060606060  
 01347 606060606060  
 01350 606060606060  
 01351 633025606321  
 01352 224325603124  
 01353 254563312631  
 01354 232163314645  
 01355 606646512460  
 01356 314560633025  
 01357 602124245125  
 01360 626260462660  
 01361 070501036063  
 01362 466021604331  
 01363 626360462660

ORG 190  
 HTR X-1,0,LOCREC  
 ORG LOCREC  
 TXH 190  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 CLA ADDMSK  
 SYN87513  
 ANA IDWD  
 STO ERAS  
 LXA ZERO,1  
 CLA TBLWD,1  
 SUB ERAS  
 TZE PACK  
 TXI A,1,-2  
 TXH SEARCH,1,-32  
 TSX PRINT,4  
 HTR ER,0,ER+78  
 HTR E  
 TRA DIGRTN  
 BCD 2

7620 FT 21

PUT AWAY TABLE IDENTIFICATION WORD  
TABLE IDENTIFICATION AT LOC 7513

TABLE SEARCH

BCD A TABLE COMPILED BY SECTION 1 PRIME HAS EXCEEDED THE BUFFER

BCD SIZE. THIS DIAGNOSTIC RECORD COMPARES

BCD THE TABLE IDENTIFICATION WORD IN THE ADDRESS OF 7513 TO A LI

BCD ST OF 16 POSSIBLE TABLES.



01364 010660474662  
 01365 623122432560  
 01366 632122432562  
 01367 336060606060  
 01370 606060606060  
 01371 606060606060  
 01372 606060606060  
 01373 606060606060  
 01374 606060606060  
 01375 633025606225  
 01376 215123306030  
 01377 216260262131  
 01400 432524336060  
 01401 633025602143  
 01402 434666252460  
 01403 632122432560  
 01404 312425456331  
 01405 263123216331  
 01406 464560456444  
 01407 222551626021  
 01410 512560314560  
 01411 434623216331  
 01412 464562600104  
 01413 060473606060  
 01414 606060606060  
 01415 606060606060  
 01416 606060606060  
 01417 606060606060  
 01420 606060606060  
 01421 010406046047  
 01422 436462600273  
 01423 602563233360  
 01424 604751256262  
 01425 606263215163  
 01426 603126607046  
 01427 646066316230  
 01430 606346605125  
 01431 626346512560  
 01432 442123303145  
 01433 256063466062  
 01434 632163256031  
 01435 456066303123  
 01436 306025515146  
 01437 516046232364  
 01440 515125243360  
 01441 -0 50000 1 01465 PACK  
 01442 0 60200 0 01450  
 01443 0 07400 4 00740  
 01444 0 01464 0 01446  
 01445 0 02000 0 00272  
 01446 606060606060 PR  
 01447 606060606060  
 01450 606060606060 PR1  
 01451 606321224325

BCD THE SEARCH HAS FAILED. THE ALLOWED TABLE IDENTIFICATION NUM

BCD BERS ARE IN LOCATIONS 1464,

BCD 1464 PLUS 2, ETC. PRESS START IF YOU WISH TO RESTORE MACHIN

BCD 6E TO STATE IN WHICH ERROR OCCURRED.

CAL TBLWD+1,1  
 SLW PR1  
 TSX PRINT,4  
 HTR PR,0,PR+14  
 TRA SPEND  
 BCD 2

BCD 1  
 BCD TABLE HAS EXCEEDED THE BUFFER SIZE. REWRITE SOURCE PROGRAM

01452	603021626025	
01453	672325252425	
01454	246063302560	
01455	226426262551	
01456	606231712533	
01457	606051256651	
01460	316325606246	
01461	645123256047	
01462	514627512144	
01463	336060606060	BCD 1.
01464	0 00000 0 00017 TBLWD	HTR 15
01465	636263464762	BCD 1TSTOPS
01466	0 00000 0 00016	HTR 14
01467	454645256723	BCD 1NONEXC
01470	0 00000 0 00015	HTR 13
01471	304643215127	BCD 1HOLARG
01472	0 00000 0 00014	HTR 12
01473	234644444645	BCD 1COMMON
01474	0 00000 0 00013	HTR 11
01475	626422215127	BCD 1SUBARG
01476	0 00000 0 00012	HTR 10
01477	264651442163	BCD 1FORMAT
01500	0 00000 0 00011	HTR 9
01501	234346626422	BCD 1CLOSUB
01502	0 00000 0 00010	HTR 8
01503	255064316360	BCD 1EQUIT
01504	0 00000 0 00007	HTR 7
01505	265125636060	BCD 1FRET
01506	0 00000 0 00006	HTR 6
01507	264651652143	BCD 1FORVAL
01510	0 00000 0 00005	HTR 5
01511	264651652151	BCD 1FORVAR
01512	0 00000 0 00004	HTR 4
01513	264651632127	BCD 1FORTAG
01514	0 00000 0 00003	HTR 3
01515	635121246060	BCD 1TRAD
01516	0 00000 0 00002	HTR 2
01517	633126274660	BCD 1TIFGO
01520	0 00000 0 00001	HTR 1
01521	632446606060	BCD 1TDO
01522	0 00000 0 00000	HTR 0
01523	632531264546	BCD 1TEIFNO
01524	0 00000 0 00000 X 00000	END

A

1  
1

ORG 191

FORCE NEW RECORD

00277 0 01303 0 01336 00277  
 01303 3 00000 0 00277 01303  
 01304 0 07400 4 00740  
 01305 0 01252 0 01244  
 01306 0 07400 4 00740  
 01307 0 01337 0 01311  
 01310 0 02000 0 00272  
 01311 606060606060  
 01312 606060606060  
 01313 454660314562  
 01314 635164236331  
 01315 464562606625  
 01316 512560234644  
 01317 473143252433  
 01320 606023465151  
 01321 252363606246  
 01322 645123256047  
 01323 514627512144  
 01324 606346603021  
 01325 652560216360  
 01326 432521626360  
 01327 464525602567  
 01330 252364632122  
 01331 432560626321  
 01332 632544254563  
 01333 336060606060  
 01334 606060606060  
 01335 606060606060  
 01336 606060606060  
 01337 0 00000 0 00000 X  
 00000

TD

PR

ORG 191 FORCE NEW RECORD  
 HTR X-1,0,LOCREC CARD FOR DE  
 ORG LOCREC  
 TXH 191 1160 FT 22  
 TSX PRINT,4  
 HTR SOURCE,0,SOURCE+6  
 TSX PRINT,4  
 HTR PR,0,PR+22  
 TRA SPEND  
 BCD 2

BCD NO INSTRUCTIONS WERE COMPILED. CORRECT SOURCE PROGRAM TO HA

BCD VE AT LEAST ONE EXECUTABLE STATEMENT.

A

END

1  
1  
ORG 192  
00300 0 01303 0 01326 00300  
01303 3 00000 0 00300 01303  
01304 0 07400 4 00740  
01305 0 01252 0 01244  
01306 0 07400 4 00740  
01307 0 01327 0 01311  
01310 0 02000 0 00272  
01311 606060606060 PR  
01312 606060606060  
01313 633025512560  
01314 215125604546  
01315 606263216325  
01316 442545636045  
01317 644422255162  
01320 603145606330  
01321 256062466451  
01322 232560475146  
01323 275121443360  
01324 602346515125  
01325 236360475146  
01326 275121443360  
01327 0 00000 0 00000 X  
A 00000

FORCE NEW RECORD  
ORG 192  
HTR X-1,0,LOCREC  
ORG LOCREC  
TXH 192 7751 FT 21  
TSX PRINT,4  
HTR SOURCE,0,SOURCE+6  
TSX PRINT,4  
HTR PR,0,PR+14  
TRA SPEND  
BCD Z

BCD THERE ARE NO STATEMENT NUMBERS IN THE SOURCE PROGRAM. CORRE

BCD 2CT PROGRAM.

END