

709/709. FORTRAN (8K AND 32K VERSIONS)

CORRECTION NO. 47 DATE NOVEMBER 14, 1960
CARD NUMBERS 9BSSL00 THROUGH 9BSSL08.

ELIMINATES CERTAIN TIMING ERRORS ON THE 7090.
IGNORES SYMBOL TABLE CARDS (PREFIX 6) AND LEAVES PARAMETER
INFORMATION FOR THE MD 170 ROUTINES IN LOCATION 143 UNAL.

*****9BSSL002
9BSSL003
9BSSL004
9BSSL005
9BSSL006
9BSSL007
9BSSL008
9BSSL009
9BSSL010
9BSSL011
9BSSL012
9BSSL014
9BSSL015
9BSSL016
9BSSL017
9BSSL018
9BSSL019
9BSSL020
9BSSL021
9BSSL022
9BSSL023
9BSSL024
9BSSL025
9BSSL026
9BSSL027
9BSSL028
9BSSL029
9BSSL030
9BSSL031
9BSSL032
9BSSL033
9BSSL034
9BSSL035
9BSSL036
9BSSL037
9BSSL038
9BSSL039
9BSSL040
9BSSL041
9BSSL042
9BSSL043
9BSSL044
9BSSL045
9BSSL046
9BSSL047
9BSSL048
9BSSL049

SYMBOLS PRECEDING THE COMMENTS FIELD DENOTE THE FOLLOWING:

- ENTRY TO A BLOCK OF CODING.
- * EXIT FROM A BLOCK OF CODING.
- 3 TRANSFER TO A SUBROUTINE.
- RETURN IS TO THE LOCATION AFTER THE 10X.

		8	16	35
		↓	↓	↓
77450	FUL			
	ORG	-216		
00000	CARD9L	SYN	0	
00001	CARD9K	SYN	1	
00002	CARD9L	SYN	2	

THE FOLLOWING THREE INSTRUCTIONS ARE READ INTO 04, 1, 2

77450	0	00025	0	77450	FULD	LSTART, -LSTART
77451	0080	00	0	00001	CLX	ICUA
77452	0020	00	0	77453	STU	IRA

00143	WDIO	SYN	99	
77430	EPLIST	SYN	*-19	
77432	OVRLAP	SYN	*-17	
77456	TWLST	SYN	*+3	

• RESET INDICATORS.

77453	-0760	00	0	00007	LSTART	LTM
77454	0760	00	0	00140	SLF	
77455	0030	00	0	77456	TEFA	*+1
77456	0774	00	4	77777	AXI	-1,4
77457	0604	00	4	77672	CARD8R	SXA

INITIALIZE MACHINE CORE SIZE.
USED AS ERASABLE CELL FOR C(8R).

77460 0600 00 0 77432

STZ

REENTRY IF SUBROUTINES MISSING AFTER TRANSFER CARD.
OVRLAP • RESET MISSING SUBROUTINE FLAG.

REENTRY TO GET NEXT CARD.

10	77461	0762	00	0	1321	RDCARD	RTTA
	77462	0540	00	0	77756	RCHA	REDA
	77463	8544	00	0	77473	LCHA	
13	77464	0500	00	0	00000	-LDF	CLA
14	77465	0000	00	1	00000	RIL	PDX

• READ NEXT CARD.

READ 9L.

DELAY UNTIL 9L IS IN AND READ 9R.

GET 9L (PREFIX, WORD COUNT, LOAD ADDRESS).

LOAD CARD WORD COUNT.

466	0622	00	0	77761	ST	STD	10CARD	SET WORD COUNT OF I/O COMMAND.	9BSSL0*
7467	-3	0007	1	77504	CLA	TXL	SORTCD;1,31	*IS THIS DATA, TRANSFER, OR PROGRAM CARD.	9BSSL0
77470	-3	00040	1	77474	PDX	TXL	CONCRD;1,32	*NO, IS CARD CONTROL CARD.	9BSSL0>2
77471	0544	00	0	77755	ST	LCHA	10CT8L	NO, MUST BE SELF LOADER. READ 8L INTO Z.	9BSSL053
77472	0544	00	0	00000	TXL	LCHA	CARD9L	SIMULATE MACHINE LOAD CHANNEL FROM ZERU.	9BSSL054
77473	-3	00001	0	00001	109RG1	TXL	CARD9R;0,1	*TRANSFER TO 1 (ALSO USED AS IUST COMMAND).	9BSSL055
								CARD IS CONTROL CARD.	9BSSL056
									9BSSL057
									9BSSL058
77474	0400	00	0	77763	CONCRD	ADD	LOWCTR	*BUMP LOWER STORAGE COUNTER	9BSSL059
77475	0621	00	0	77763		SIA	LOWCTR	BY LENGTH OF BLOCK RESERVED (9L ADDRESS).	9BSSL060
77476	0544	00	0	77672		LCHA	ADDMSK	DELAY UNTIL 9R READ IN.	9BSSL061
77477	0500	00	0	00001		CLA	CARD9R	SET COMMON ORIGIN TO	9BSSL062
77500	0621	00	0	77509		STA	COMORG	9R ADDRESS.	9BSSL063
77501	0760	00	0	00005	10TST	10T		*TEST I/O CHECK INDICATOR.	9BSSL064
77502	0020	00	0	77614		TRA	WHAT	*INDICATOR ON.	9BSSL065
77503	0020	00	0	77461		TRA	RDCARD	*INDICATOR OFF, GET NEXT CARD.	9BSSL066

DETERMINE TYPE OF CARD BY ITS 9L PREFIX.

77504	0771	00	0	00017	SORTCD	ARS	15	*GET PREFIX OF CARD.	9BSSL070
77505	-0734	00	0	00000	COMORG	PDX	**4	(ADDRESS FIELD USED AS COMMON DECREMENT)	9BSSL071
77506	-0120	00	0	77617		IMI	PROG	*TRANSFER IF NOT INSTRUCTION OR DATA CARD.	9BSSL072
								CARD IS DATA OR TRANSFER CARD (PREFIX 0, 1, 2, 3)	9BSSL073
77507	-0300	00	0	00020		CAL	CARD9L	GET 9L.	9BSSL074
77510	0100	00	0	77501		TZE	10TST	*SKIP IF A BLANK CARD.	9BSSL075
77511	*2	00001	0	77519		TAL	SE110;4,1	IS THIS A RELOCATABLE BINARY CARD.	9BSSL076
								YES, BUT MAY BE A TRANSFER CARD OR	9BSSL077
77512	0544	00	0	77757		LCHA	108LFT	DATA, READ RELOCATION BITS (PREFIX 2 OR 3)	9BSSL078
77513	0074	00	2	77551		ISX	RELLOD;2	*RELOCATE LOAD ADDRESS OF CARD.	9BSSL079
77514	0621	00	0	77761	SE110	SIA	10CARD	SET LOAD ADDRESS OF I/O COMMAND.	9BSSL080
77515	0544	00	0	77761		LCHA	10CARD	LOAD CHAN. WITH IUST TO READ 8L AND ON	9BSSL081
								IF PREFIX IS 0 OR 1, OR TO READ 7L AND	9BSSL082
								ON IF PREFIX IS 2 OR 3.	9BSSL083
77516	-3	00000	1	77761		TAL	10CARD;1,0	*TRANSFER TO I/O COMMAND IF THIS IS AN	9BSSL084
								ABSOLUTE OR RELOCATABLE TRANSFER CARD	9BSSL085
								(WORD COUNT 0).	9BSSL086
77517	0754	00	1	00000	ADDRESS	PXA	**1	COMPUTE LAST ADDRESS+1 OF CARD	9BSSL087
77520	0402	00	0	77761		SDR	10CARD	FOR CHECKSUM LOOP.	9BSSL088
77521	0760	00	0	00140		SLF		RESET SWITCHES.	9BSSL089
77522	0074	00	2	77573		ISX	CHKSUM;2	*COMPUTE CHECKSUM.	9BSSL090
77523	-3	00001	0	77461		IXL	RDCARD;4,1	*IS CARD ABSOLUTE BINARY (PREFIX 0 OR 1).	9BSSL091
77524	0560	00	0	77457		LDR	CARD8R	NO, GET RIGHT HALF RELOCATION BITS.	9BSSL092
									9BSSL093
									9BSSL094
									9BSSL095
									9BSSL096
									9BSSL097
77525	0074	00	4	77567	RELDEC	ISX	RELBIT;4	*GET NEXT RELOCATION BIT.	9BSSL098
77526	0120	00	0	77534		TPL	RELLOD	IS DECREMENT RELOCATABLE.	9BSSL099
77527	0500	00	0	77603		CLA*	ORGRD	YES, GET DECREMENT PORTION OF WORD.	9BSSL100
77530	0771	00	0	00022		ARS	18		9BSSL101
77531	0074	00	2	77545		ISX	RELDAT;2	*RELOCATE DECREMENT.	9BSSL102
77532	0767	00	0	00024		ALS	18		9BSSL103
77533	0622	00	0	77605		STD*	ORGRD	INSERT RELOCATED DECREMENT.	9BSSL104
77534	0074	00	4	77567	RELADD	ISX	RELBIT;4	*GET NEXT RELOCATION BIT.	9BSSL105
77535	0120	00	0	77541		TPL	**4	IS ADDRESS RELOCATABLE.	9BSSL106
77536	0500	00	0	77605		CLA*	ORGRD	YES, GET ADDRESS PORTION OF WORD.	9BSSL107

1537 0074 00 2 77543
77540 0621 60 0 77605
77541 2 00001 1 77525
77542 0020 00 0 77461

TSX RELDAT,2
STA* ORGCRD
TIX RELDEC,1:1
TRA RDCARD

*RELOCATE ADDRESS.
INSERT RELOCATED ADDRESS.
IS CARD EXHAUSTED.
*YES, GET NEXT CARD.

9BSS1
9BSSL109
9BSSL110
9BSSL111
9BSSL112
9BSSL113

CLOSED SUBROUTINE TO RELOCATE DATA.

ENTRY POINT FOR DATA.

77543 0621 00 0 77517
77544 0674 00 4 77507
77545 0120 00 0 77547
77546 0760 00 0 00141
77547 0760 00 0 00142
77550 0900 00 0 77517

RELDAT STA
TSX
TPL
SLN
SLN
CAL

ADDRESS .SAVE LOCATION TO BE RELOCATED.
RELBIT,4 .GET NEXT RELOCATION BIT.
*+2 IS LOCATION DIRECTLY RELOCATABLE.
1 NO, SET COMPLEMENT RELOCATABLE FLAG.
2 SET DATA FLAG.
ADDRESS GET LOCATION TO BE RELOCATED.

9BSSL114
9BSSL115
9BSSL116
9BSSL117
9BSSL118
9BSSL119
9BSSL120
9BSSL121
9BSSL122
9BSSL123
9BSSL124

ENTRY POINT FOR LOAD OR TRANSFER ADDRESS.

77551 0320 00 0 77672
77552 0402 00 0 77615
77553 0760 00 0 00142
77554 0020 00 0 77565
77555 0120 00 0 77563
77556 0760 00 0 00141
77557 0020 00 0 77565

RELLOD ANA
SUB
SLT
TRA
TPL
SLT
TRA

ADDMSK .COMPUTE DIFFERENCE BETWEEN LOCATION AND
PROGBK OBJECT PROGRAM BREAK.
2 IS THIS DATA.
RELPRO NO, THIS IS TRANSFER OR LOAD ADDRESS.
RELCOM YES, IS LOCATION ABOVE PROGRAM BREAK.
1 NO, IS IT COMPLEMENT RELOCATABLE.
RELPRO NO, GO RELOCATE UPWARDS.

9BSSL125
9BSSL126
9BSSL127
9BSSL128
9BSSL129
9BSSL130
9BSSL131
9BSSL132
9BSSL133
9BSSL134

RELOCATE COMMON STORAGE DOWNWARD.

77560 0500 00 0 77517
77561 0401 00 0 77505
77562 0020 00 2 00001

CAL
ADM
TRA

ADDRESS GET LOCATION TO BE RELOCATED.
COMORG ADD COMMON REASSIGNMENT.
1:2 *RETURN TO CALLER.

9BSSL135
9BSSL136
9BSSL137
9BSSL138
9BSSL139

REENTRY FOR LOCATIONS ABOVE PROGRAM BREAK.

77563 0760 00 0 00141
77564 0020 00 0 77560

RELCOM SLT
TRA

1 IS IT COMPLEMENT RELOCATABLE.
*-4 NO, GO RELOCATE DOWNWARDS.

9BSSL140
9BSSL141
9BSSL142
9BSSL143

RELOCATE PROGRAM DATA UPWARDS.

77565 0400 00 0 77763
77566 0020 00 2 00001

RELPRO ADD
TRA

LOWCTR ADD RELOCATED PROGRAM BREAK TO DIFFERENCE
1:2 *BETWEEN LOCATION AND OBJECT PROGRAM BREAK.

9BSSL144
9BSSL145
9BSSL146
9BSSL147
9BSSL148

CLOSED SUBROUTINE TO GET NEXT RELOCATION BIT.

77567 0500 00 0 00002
77570 0760 00 0 00001
77571 0602 00 0 00002
77572 0020 00 4 00001

RELBIT CLA
LGL
SLW
TRA

CARD8L *GET CURRENT RELOCATION BITS.
1 SHIFT IN NEXT BIT AND
CARD8L SAVE RESIDUE.
1:4 *RETURN TO CALLER.

9BSSL149
9BSSL150
9BSSL151
9BSSL152
9BSSL153
9BSSL154
9BSSL155

CLOSED SUBROUTINE TO COMPUTE CHECKSUM.

77573 0621 00 0 77605
77574 0500 00 0 00000
77575 0000 00 0 77575
77576 0760 00 0 00005
77577 0020 00 0 77614
77600 -3 00000 4 77605

CHKSUM STA
CAL
TCOA
TOT
TRA
TXL

ORGCRD .INITIALIZE ADDRESS FOR CHECKSUM.
CARD9L GET 9L.
* DELAY UNTIL COMPLETE CARD IS READ.
* IS THE 170 CHECK INDICATOR ON.
*YES.
ORGCRD,4:0 TRANSFER IF CARD IS NOT RELOCATABLE WITH
CHECKSUM (PREFIX 4 OR 0).

9BSSL156
9BSSL157
9BSSL158
9BSSL159
9BSSL160
9BSSL161
9BSSL162
9BSSL163
9BSSL164
9BSSL165

77601 -3 00001 4 77612
77602 3 00002 4 77614

TXL
TXH

NOCHK,4:1
NOCHK,4:2

TRANSFER IF CARD IS NOT RELOCATABLE AND
CHECKSUM IS TO BE IGNORED (PREFIX 5 OR 1).
TRANSFER IF CARD IS RELOCATABLE AND THE

77603 0361 00 0 00002 ACL CARD8L
 77604 0361 00 0 77457 ACL CARD8R
 77605 0361 00 1 00000 ORGCRD ACL **,1
 77606 2 00001 1 77605 TIX *-1,1,1
 77607 0524 00 1 77761 LXD IOCARD,1
 77610 0340 00 0 00001 LAS CARD9R
 77611 0520 00 0 00001 NZT CARD9R
 77612 0020 00 2 00001 NOCHK TRA 1,2
 77613 0000 00 2 00001 HTR 1,2

 77614 0030 00 0 77616 WHAI IEFA EOFRD
 77615 0 00000 0 00000 PROGBK PZE

 77616 0000 00 0 77461 EOFRD HTR RDCARD

CHECKSUM IS TO BE IGNORED (PREFIX 3).
 CARD IS RELOCATABLE WITH CHECKSUM,
 ADD IN 8L AND 8R.
 CHECKSUM CARD.

RELOAD WORD COUNT.
 DO CHECKSUMS AGREE.
 NO, IS 9R ZERO.

*YES, 9R AGREES OR IS ZERO.
 *NO, PAUSE AND THEN ACCEPT.

*WAS THE I/O CHECK CAUSED BY AN EOF.
 NO, LOADING CAN NOT CONTINUE. (ALSO USED
 FOR SAVING CURRENT PROGRAM BREAK)
 *YES, PAUSE AND THEN PROCEED.

9BSSL
 9BSSL 7
 9BSSL168
 9BSSL169
 9BSSL170
 9BSSL171
 9BSSL172
 9BSSL173
 9BSSL174
 9BSSL175
 9BSSL176
 9BSSL177
 9BSSL178
 9BSSL179
 9BSSL180
 9BSSL181
 9BSSL182

CARD IS FORTRAN PROGRAM CARD (PREFIX 4 OR 5) OR FORTRAN
 TRANSFER CARD (PREFIX #) OR SYMBOL TABLE CARD
 (PREFIX 6 OR 7).

77617 3 00001 4 77461 PROG TXH RDCARD,4,1
 77620 0754 00 1 00000 PXA ,1
 77621 0400 00 0 77660 SBM EPLORG
 77622 0621 00 0 77761 STA IOCARD
 77623 0344 00 0 77761 LCHA IOCARD
 77624 05 00000 1 77673 TXL FORTRA,1,0

 77625 0500 00 0 77660 CLA EPLORG
 77626 0074 00 2 77573 TSX CHKSUM,2
 77627 0760 00 0 00143 SLT 5
 77630 1 77777 1 77632 TXI *-2,1,-1
 77631 1 77777 1 77660 TXI EPLORG,1,-1
 77632 0500 60 0 77761 CLA* IOCARD
 77633 0734 00 4 00000 PDX ,4
 77634 0560 00 0 77763 LDQ LOWCTR
 77635 0621 00 0 77615 STA PROGBK
 77636 0400 00 0 77763 ADD LOWCTR
 77637 0621 00 0 77763 STA LOWCTR
 77640 0754 00 4 00000 PXD ,4
 77641 0100 00 0 77643 TNZ **2
 77642 0500 00 0 77762 CLA PREFLG
 77643 0601 60 0 77761 STU* IOCARD
 77644 0500 60 0 77660 CLA* EPLORG
 77645 0401 00 0 77505 ADM COMORG
 77646 0320 00 0 77672 ANA ADDMSK
 77647 0100 00 0 77651 TZE **2
 77650 0340 00 0 77764 CAS COMMBK
 77651 0500 00 0 77764 CLA COMMBK
 77652 0761 00 0 00000 NOP
 77653 0601 00 0 77764 STO COMMBK
 77654 0402 00 0 77763 SUB LOWCTR
 77655 0120 00 0 77452 TMI OVRCLAP
 77656 0600 60 0 77660 STU* EPLORG
 77657 1 77776 1 77660 TXI *-1,1,-2
 77660 0500 00 1 77430 EPLORG CLA EPLIST,1
 77661 0074 00 2 77551 TSX RELL0D,2

*IS CARD NON LOADABLE (PREFIX 6 OR 7).
 NO, GET WORD COUNT AND COMPUTE LOAD
 ADDRESS IN ENTRY POINT LIST.

SET LOAD ADDRESS OF I/O COMMAND.
 READ CARD INTO ENTRY POINT LIST.

*TRANSFER IF FORTRAN TRANSFER CARD
 (PREFIX 4, WORD COUNT AND LOAD ADDRESS 0).
 INITIALIZE CHECKSUM COMPUTATION.

*COMPUTE CHECKSUM.
 IS THIS FIRST PROGRAM CARD.

YES.
 NO, PROGRAM CARD IMMEDIATELY PRECEDED.

GET 8L.
 LENGTH OF TRANSFER VECTOR INTO 1R4.

SAVE LOAD POINT FOR THIS PROGRAM.
 SET OBJECT PROGRAM BREAK.
 BUMP RELOCATED PROGRAM BREAK BY LENGTH OF
 THIS PROGRAM.

GET LENGTH OF TRANSFER VECTOR.
 IS TRANSFER VECTOR EMPTY.

YES, GET VECTOR EMPTY FLAG.
 INSERT IN ENTRY POINT LIST NAME CELL.

GET 8R.
 COMPUTE REASSIGNED COMMON BREAK.

REDUCE TO CORE SIZE.
 IS COMMON REQUIREMENT ZERO.

NO, IS THIS COMMON BREAK LOWER.
 NO, GET OLD COMMON BREAK.

RESET COMMON BREAK.
 IS THIS LOWER THAN TOP OF DATA.

*YES, GO TO STOP.
 NO, INSERT LOAD POINT FOR THIS PROGRAM
 IN ENTRY POINT ADDRESS CELL.

*GET NEXT ENTRY POINT ON LIST.

\$RELOCATE.

9BSSL183
 9BSSL184
 9BSSL185
 9BSSL186
 9BSSL187
 9BSSL188
 9BSSL189
 9BSSL190
 9BSSL191
 9BSSL192
 9BSSL193
 9BSSL194
 9BSSL195
 9BSSL196
 9BSSL197
 9BSSL198
 9BSSL199
 9BSSL200
 9BSSL201
 9BSSL202
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 9BSSL208
 9BSSL209
 9BSSL210
 9BSSL211
 9BSSL212
 9BSSL213
 9BSSL214
 9BSSL215
 9BSSL216
 9BSSL217
 9BSSL218
 9BSSL219
 9BSSL220
 9BSSL221
 9BSSL222
 9BSSL223

662	0621	60	0	77660	STA*	EPLORG	INSERT RELOCATED ENTRY POINT IN LIST.	9BSSL22
77663	2	00002	1	77660	TIX	*-3,1,2	IS CARD EXHAUSTED.	9BSSL225
77664	0500	00	0	77761	CLA	10CARD	YES, RESET ORIGIN FOR NEXT CARD.	9BSSL226
77665	0621	00	0	77660	STA	EPLORG		9BSSL227
77666	-0320	00	0	77672	ANA	ADDMSK	REDUCE TO CORE SIZE.	9BSSL228
77667	0760	00	0	00143	SLN	3	SET PROGRAM CARD FLAG.	9BSSL229
77670	0402	00	0	77763	SUB	LOWCTR	DOES ENTRY POINT LIST OVERLAP LOADED DATA.	9BSSL230
77671	0120	00	0	77461	TPL	RDCARD	*NO, READ NEXT CARD.	9BSSL231
77672	0	00000	0	77777	ADDMSK	PZE	YES, LOADING CAN NOT CONTINUE.	9BSSL232

CARD IS FORTRAN TRANSFER CARD (PREFIX 4, WORD COUNT 0)

77673	0535	00	2	77660	FORTRA	LAC	EPLORG,2	• COMPUTE LENGTH OF ENTRY POINT LIST.	9BSSL233
77674	1	77430	2	77675		TXI	*+1,2,EPLIST		9BSSL236
77675	0634	00	2	77715		SXA	EPLCNT,2	SAVE COUNT.	9BSSL239
77676	1	00002	2	77744		TXI	ENDTST+1,2,2	*BUMP TO TEST BEFORE USING DATA.	9BSSL240

REENTRY AFTER ONE OBJECT PROGRAM TRANSFER VECTOR IS DONE TO INITIALIZE TRANSFER VECTOR IN NEXT PROGRAM.

77677	-0500	00	2	77430	INITTA	CAL	EPLIST,2	• GET NEXT NAME IN ENTRY POINT LIST.	9BSSL241
77700	-0100	00	0	77704		TNZ	*+4	IS THIS MAIN PROGRAM (BLANK NAME).	9BSSL242
77701	0500	00	2	77431		CLA	EPLIST+1,2	YES, GET ENTRY POINT TO MAIN PROGRAM.	9BSSL243
77702	0621	00	0	77777		STA	TRADDR	INITIALIZE TRANSFER ADDRESS.	9BSSL244
77703	0020	00	0	77744		TKA	ENDTST+1	*TEST FOR END OF ENTRY POINT LIST.	9BSSL245
77704	-0520	00	0	77762		ANA	PREFLG	NO, IS THIS TRANSFER VECTOR EMPTY FLAG.	9BSSL246
77705	-0100	00	0	77744		TNZ	ENDTST+1	*NAME OF ENTRY POINT.	9BSSL247
77706	0500	00	2	77430		CLA	EPLIST,2	NO, GET TRANSFER VECTOR COUNT.	9BSSL248
77707	-0734	00	4	00000		PDX	,4		9BSSL249
77710	0754	00	4	00000		PXA	,4	PLACE TRANSFER VECTOR COUNT IN AC.	9BSSL250
77711	0400	00	2	77431		ADD	EPLIST+1,2	COMPUTE ORIGIN AT TOP OF TRANSFER VECTOR.	9BSSL251
77712	0621	00	0	77714		STA	ORGVEC	INITIALIZE ORIGIN AT TOP OF VECTOR.	9BSSL252

REENTRY TO INITIALIZE NEXT VECTOR NAME IN OBJECT PROGRAM.

77713	0774	00	1	00000		EPLCNT	AXT	**1	• LOAD ENTRY POINT LIST COUNT.	9BSSL253
77714	-0500	00	4	00000		ORGVEC	CAL	**4	GET NEXT NAME ON OBJECT PROGRAM VECTOR.	9BSSL254
77715	-0520	00	0	77702		ANA	PREFLG		HAS THIS NAME BEEN INITIALIZED.	9BSSL255
77716	0100	00	0	77745		TZE	ENDTST	*YES.		9BSSL256
77717	-0500	00	0	77714		CAL*	ORGVEC	NO, GET NAME AGAIN.		9BSSL257
77720	-0340	00	1	77430		LAS	EPLIST,1	IS NAME ON ENTRY POINT LIST.		9BSSL258
77721	0020	00	0	77725		TKA	*+2	NO.		9BSSL259
77722	0020	00	0	77757		TKA	INITVC	*YES.		9BSSL260
77723	2	00002	1	77720		TIX	*-3,1,2	IS ENTRY POINT LIST EXHAUSTED.		9BSSL261
77724	0774	00	1	00024		NXT	20,1	YES, GET COUNT OF MISSING LIST BUFFER.		9BSSL262
77725	-0520	00	1	77430		NZT	TVLIST,1	IS THIS CELL EMPTY.		9BSSL263
77726	0020	00	0	77734		TKA	ADJUST	*YES.		9BSSL264
77727	-0340	00	1	77430		LAS	TVLIST,1	NO, IS THIS LOST TRANSFER VECTOR NAME.		9BSSL265
77730	0020	00	0	77732		TKA	*+2	NO.		9BSSL266
77731	0020	00	0	77745		TKA	ENDTST	*YES, IGNORE THIS NAME.		9BSSL267
77732	2	00001	1	77725		TIX	*-3,1,1	IS MISSING LIST EXHAUSTED.		9BSSL268
77733	0000	00	0	77460		HTR	RDCARD-1	*YES, STOP ON MORE THAN 20 MISSING NAMES.		9BSSL269

ADD NAME TO MISSING TRANSFER VECTOR LIST.

77734	0602	00	1	77436	ADJUST	SLW	TVLIST,1	• ADD NAME TO MISSING LIST.	9BSSL270
77735	0600	00	1	77457		STZ	TVLIST+1,1	CLEAR NEXT CELL TO SET SEARCH STOP.	9BSSL271
77736	0021	00	0	77745		TRR	ENDTST	*TEST FOR END OF TRANSFER VECTOR.	9BSSL272

77737	-0500	00	0	77730	INTRVC	CALL	TRANSFER VECTOR NAME HAS BEEN FOUND.	9BSSL282	
77740	0602	00	0	77714	SLW*	**1	*GET TR COMMAND.	9BSSL283	
77741	0500	00	1	77451	CLA	ORGVEC	INSERT IN TRANSFER VECTOR.	9BSSL284	
77742	0621	00	0	77714	STA*	EPLIST+1,1	GET ENTRY POINT AND INITIALIZE TRANSFER VECTOR.	9BSSL285	
						ORGVEC	INITIALIZE TRANSFER VECTOR.	9BSSL286	
77743	2	00001	4	77719	ENDISI	TIX	REENTRY FOR NAME ALREADY INITIALIZED OR NAME LOST.	9BSSL287	
							EPLCNT+4,1	*IS TRANSFER VECTOR EXHAUSTED.	9BSSL288
77744	2	00002	2	77677	TIX		REENTRY FOR TRANSFER CARD OR PROGRAM WITH BLANK VECTOR.	9BSSL289	
77745	0520	00	0	77422	ZET	INITIA+2,2	*IS ENTRY POINT LIST EXHAUSTED.	9BSSL290	
77746	0000	00	0	77460	HTR	OVRLAP	YES* ARE ANY ENTRY POINTS MISSING.	9BSSL291	
77747	0534	00	4	77763	LXA	ROCARD-1	*YES, PAUSE AND GET NEXT CARD.	9BSSL292	
77750	-0754	00	4	00000	PXD	LOWCTR+4	NO, SET PARAMETERS FOR NO I/O PACKAGE.	9BSSL293	
77751	-0501	00	0	77764	ORA	1,4	PLACE HIGHEST LOCATION IN LOWER CORES	9BSSL294	
77752	0601	00	0	00142	STQ	COMMBK	IN DECREMENT AND LOWEST LOCATION IN	9BSSL295	
77753	0534	00	2	77713	LXA	NOIV	COMMON IN THE ADDRESS.	9BSSL296	
77754	1	00364	2	77763	TIX	EPLCNT+2	COMMON IN THE ADDRESS.	9BSSL297	
						TRACUT+2,1	COMPUTE LENGTH OF LOADER AND EPLIST	9BSSL298	
							*TO ERASE GARBAGE.	9BSSL299	
								9BSSL300	
								9BSSL301	
								9BSSL302	
								9BSSL303	
								9BSSL304	
								9BSSL305	
77755	-1	00001	0	00002	IUCT6L	IUCT	I/O DATA	9BSSL306	
77756	-1	00001	0	00000	I09LFT	IUCT	CARD9L,1	9BSSL307	
77757	-0	00001	0	00002	I08LFT	IUCT	CARD9L,1	9BSSL308	
77760	-1	00001	0	77457	I08RGT	IUCT	CARD9L,1	9BSSL309	
77761	-3	00000	0	00000	IUCARD	IUST	**3**	9BSSL310	
								9BSSL311	
								9BSSL312	
								9BSSL313	
								9BSSL314	
								9BSSL315	
77762	-3	00000	0	00000	PREFLG	SVN	CONSTANTS	9BSSL316	
77763	0	00000	0	00144	LOWCTR	PZE	100	9BSSL317	
77764	0	00000	0	77777	COMMBK	PZE	-1	9BSSL318	
								9BSSL319	
								9BSSL320	
77765	0140	00	0	77766	TRACUT	IUV	AFTER SUCCESSFUL LOAD ERASE LOADER, ENTRY POINT LIST	9BSSL321	
77766	0760	00	0	00140	SLF		**1	9BSSL322	
77767	0161	00	0	77770	TQU		*AND TURN OFF ALL TRIGGERS.	9BSSL323	
77770	-0760	00	0	00002	EFTM		**1	9BSSL324	
77771	0600	00	0	00000	STZ	CARD9L	ENTER FLOATING POINT TRAP MODE.	9BSSL325	
77772	0600	00	0	00001	STZ	CARD9R		9BSSL326	
77773	0600	00	0	00002	STZ	CARD8L		9BSSL327	
77774	0600	00	2	77774	LCLEAR	STZ	*,2	9BSSL328	
77775	2	00001	2	77774	TIX		CLEAR EPLIST, IVLIST, AND LOADER.	9BSSL329	
77776	0774	00	1	00000	AXT		**	9BSSL330	
77777	0020	00	0	00000	TRADDR	TRA	CLEAR INDEX REGISTERS	9BSSL331	
							*AND TRANSFER TO MAIN PROGRAM.	9BSSL332	
								9BSSL333	
								9BSSL334	
								9BSSL335	

00000 END