

9DEPRA

709 DIAGNOSTIC ENGINEERING SENSE SWITCHES INTERROGATION AND PRINT SUBROUTINE

A. FUNCTION

1. THIS DIAGNOSTIC SUBROUTINE WILL INTERROGATE SENSE SWITCHES AND PRINT A DETAILED ACCOUNT OF ERROR INDICATIONS THAT MAY OCCUR AS A RESULT OF RUNNING DIAGNOSTIC TEST ROUTINES.
2. THE INFORMATION THAT IS PRINTED WILL INCLUDE THE TEST LOCATION, THE PRIMARY INSTRUCTION BEING TESTED IN SHARE MNEMONICS OPERATION CODES, THE LOCATION WHERE THE ERROR WAS DETECTED IN THE PROGRAM, THE STATUS OF THE SENSE LIGHTS AND SWITCHES, THE CONTENTS OF THE ACCUMULATOR, QUOTIENT, SENSE INDICATORS, KEYS, INDEX REGISTERS, STATUS OF THE ACCUMULATOR OVERFLOW INDICATOR, TAPE REDUNDANCY INDICATORS AND TRAP TRIGGER INDICATOR.
3. THE CONTENTS OF LOCATION ZERO IS PRINTED IN OCTALNARY CODE.
4. WHEN AN INPUT-OUTPUT TYPE PRINT-OUT IS DESIRED, THE WORD WRITTEN OR GENERATED AND WORD READ ARE PRINTED IN OCTAL ALONG WITH THE WORD NUMBER AND RECORD NUMBER.

B. RESTRICTION

INDEX REGISTER C IS USED IN THE SUBROUTINE. THIS PRINT SUB-ROUTINE MAY BE USED ONLY WITH TEST ROUTINES THAT HAVE BEEN WRITTEN THAT INCLUDE THE BACK LINKAGE TO THE SUB-ROUTINE AS SPECIFIED IN PARAGRAPH C, USE.

C. USE

1. INSERT A BCD WORD OF THE SHARE MNEMONICS OPERATION CODE AT THE BEGINNING OF EACH SECTION OF A TEST TO INDICATE THE PRIMARY INSTRUCTION TO BE TESTED. I.E. BCD 1CLA TEST INSTRUCTION-CLEAR AND ADD
2. THE BASIC LINKAGE TO SUBROUTINE IN SYMBOLIC NOTATION SHOULD BE AS FOLLOWS

MAIN FRAME TEST	I/O TEST
TSX ERROR, 4	TSX ERROR-4, 4
TSX OK, 4	TSX OK, 4
TRA X	TRA X

3. THE RETURN ADDRESS FOR CONTINUATION OF THE PROGRAM WILL BE THE EXECUTION OF INSTRUCTIONS BEYOND THE TRA X INSTRUCTION. FOR

REPETITION OF THE SAME TEST, THE RETURN ADDRESS WILL BE TO ADDRESS X.
WHERE THE ADDRESS X IN TRA X SPECIFIES THE START OF THE TEST NEGATION.

4. WHEN THE PROGRAM ENTERS THE TSX ERROR,4 INSTRUCTION, IT WILL CAUSE A MAIN FRAME TYPE PRINT OUT, IF PRINTING IS DESIRED. ENTRY TO THE TSX ERROR-4,4 INSTRUCTION WILL PRODUCE AN I/O TYPE PRINT-OUT.
5. ENTRY TO THE TSX OK,4 INSTRUCTION WILL CAUSE INTERROGATION OF THE SENSE SWITCHES FOR REPETITION OF THE TEST OF CONTINUATION OF THE PROGRAM.

MAIN FRAME TEST	I/O TEST
TSX ERROR-1,4	TSX ERROR-2,4
TRA X	TRA X

6. WHEN ENTRY IS MADE TO THE ABOVE TSX INSTRUCTIONS, THE PROGRAM RETURNS FROM THE SUBROUTINE TO THE NEXT LOCATION IMMEDIATELY FOLLOWING THE TRA X INSTRUCTIONS. ADDRESS X SPECIFIES THE START OF THE TEST LOCATION.
7. WHEN THE TRA X INSTRUCTION IS CHANGED TO TXL X, ONLY ONE LINE IS PRINTED WHEN AN ERROR OCCURS.
8. IF A TEG OF 4 IS USED IN THE INSTRUCTION. E.G. TXL X,4 WILL ACT AS A NOP IF EXECUTED.
9. TO INTERROGATE TAPE REDUNDANCY ERROR THE LINKAGE SHOULD BE

TSX RDNCK,4
TRA X

THE RETURN PROCEDURE IS THE SAME AS EXPLAINED UNDER C6.

10. WHEN WRITING AN I/O TEST, INDEX REGISTER A SHOULD BE USED FOR THE WORD COUNT OF EACH RECORD AND INDEX REGISTER B SHOULD BE USED FOR THE RECORD COUNT WHERE POSSIBLE. THE TOTAL WORD COUNT +1 AND RECORD COUNT +1 SHOULD BE STORED IN SYMBOLIC LOCATIONS WDNO AND RECNO RESPECTIVELY PRIOR TO ENTRY TO THE BASIC LINKAGE OF THE SUBROUTINE.
11. WHENEVER A ROUTINE USES THE TRAPPING MODE, THE BCD SHARE OPERATION SHOULD BE FOLLOWED BY A HYPHEN. I.E. BCD 1ETM- TEST INST ENTER TRAPPING MODE.

PROGRAM CONTROL

1. DECK

000-020 PLACE BINARY DECK IMMEDIATELY BEFORE TRA CARD
OF THE ASSEMBLED PROGRAM TO BE TESTED.

2. SENSE SWITCH CONTROL

SSW 1 UP - TEST SENSE SW 4
SSW 1 DN - REPEAT TEST LOOP
SSW 2 UP - INDICATE ERRORS - TEST SSW 3 TO PRINT OR HALT
SSW 2 DN - BY-PASS ERROR INDICATIONS - TEST SSW 1
SSW 3 UP - PRINT ON ERROR IF SSW 2 IS UP THEN TEST SSW 1
SSW 3 DN - STOP ON ERROR IF SSW 2 IS UP THEN TEST SSW 1
SSW 4 UP - PROCEED TO NEXT TEST
SSW 4 DN - REPEAT SECTION N TIMES OR IF ERROR OCCURRED-GO TO NEXT
SECTION
SSW 6 UP - END TEST - CALL IN NEXT TESST
SSW 6 DN - REPEAT ENTIRE PROGRAM

E. ERROR STOPS

6517 ERROR IN MAIN PROGRAM WITH SENSE SWITCH 3 DOWN. INDEX REGISTER C
OR CONTAINS THE 2,S COMPLEMENT OF THE ADDRESS WHERE THE ERROR WAS
6545 DETECTED. TO CONTINUE PROGRAM PUSH START.

F. STORAGE

6500-07722 MAY BE RELOCATABLE

G. PRINTS-OUTS

THERE ARE FOUR TYPES OF PRINT-OUTS, AS FOLLOWS

1. MAIN FRAME PRINT-OUT

TEST LOCL 00031, OPN STP ,ERROR LOC 00052, 0 LOC 402000000031,SW 000000
LITE 0000, MQ 0000001010101, XRA 00001, XRB 00001, XRC 07726, TRAP TRG 0
ACC +,Q 0,P 0,3000001010101, DIV CK 0, ACC OVLf 0,
INDS 00000000000000, KEYS 002000000030

- A. TEST LOC 00031 INDICATES THE START OF THE SECTION OF THE
PROGRAM IN ERROR. PROGRAM BEGINS AT
LOCATION 00031
- B. OPN STP INDICATES THE PRIMARY SHARE OPERATION BEING
TESTED. TEST INSTRUCTION IS STORE PREFIX
- C. ERROR LOC 00052 INDICATES THE LOCATION WHERE THE ERROR WAS
DETECTED. ERROR IN PROGRAM OCCURRED AT
LOCATION 00052
- D. PSE SW 000000, INDICATES THE STATUS OF THE SIX SENSE
SWITCHES A 0 IMPLIES THAT THE SWITCH IS UP
AND A 1 IMPLIES THAT THE SWITCH IS DOWN.
SENSE SWITCHES AND SENSE LIGHTS ARE ??????
SEQUENTIALLY FROM LEFT TO RIGHT
- E. LITE 0000 A BINARY 1 IMPLIES THAT A LIGHT IS ON, AND

A BINARY 0 IMPLIES THAT A LIGHT IS OFF

F. THE CONTENTS OF THE ACCUMULATOR, MQ, SENSE INDICATORS, KEYS AND INDICES ARE IN OCTAL. THE MQ WILL GENERALLY CONTAIN THE CORRECT CONTENTS AND THE ACC WILL CONTAIN THE ERROR CONTENTS

2. I/O PRINT - OUT

TEST LOC 00202, OPN RTBA 1 ,ERROR LOC 00230, 0 LOC 000000100001,SW 000000
MSE 0000, COMP ERROR, WORD GENERATED 010 000 101 100 001 001 100 111 011 011
XEC 00001, WORD 00002, WORD READ 100 000 101 100 001 001 100 111 011 011
INDS 000000000000, KEYS 000000000000

- A. OPN RTBA 1 INDICATES THE THE ERROR OCCURED AS A RESULT OF READING TAPE 1 IN BINARY ON CHANNEL A
- B. WORD GENERATED REFERS TO THE WORD WRITTEN OR GENERATED IN STORAGE THAT IS BEING COMPARED TO THE WORD READ FROM TAPE UNIT 1
- C. WORD READ INDICATES THE WORD OF THE RECORD THAT WAS READ INTO STORAGE IN ERROR FROM TAPE 1
- D. MSE 0000 INDICATES THE STATUS OF THE 4 SENSE LIGHTS

WHEN SENSE SWITCH 3 IS DOWN, THE MQ WILL CONTAIN THE CORRECT WORD AND THE ACC WILL CONTAIN THE WORD READ

3. TAPE REDUNDANCY PRINT - OUT

TEST LOC 01204, OPN RTBA ,ERROR LOC 01230, 0 LOC 000026007650,SW 000001
INDS 000000000000, KEYS 002000001251,TAPE CK-DSU A 0,B 1,C 0,D 0,E 0,F 0

4. ONE LINE PRINT - OUT

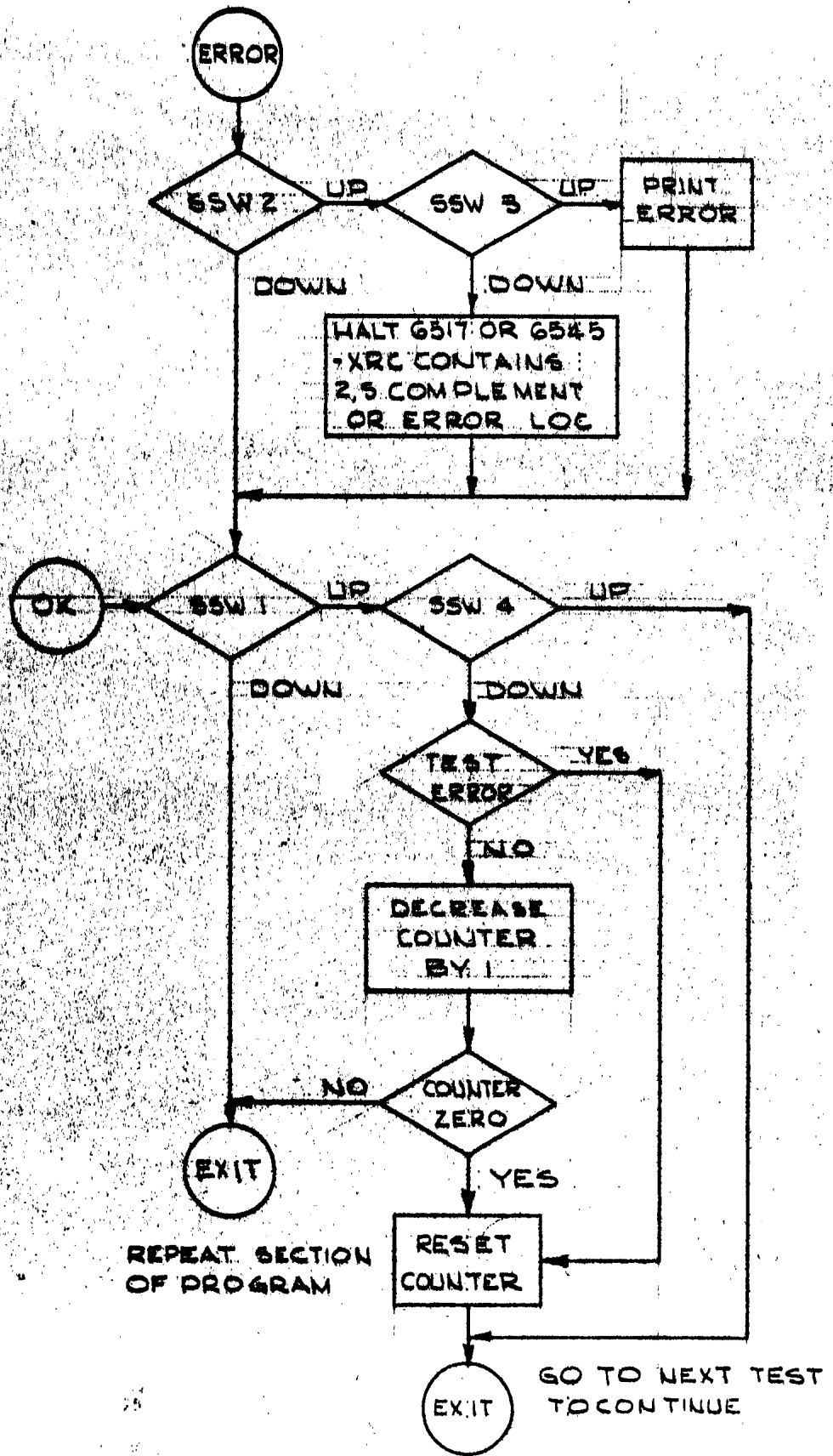
TEST LOC 01224, OPN TCOA ,ERROR LOC 01226, 0 LOC 000026007650,SW 000001

G COMMENTS

- 1. PRIOR TO ASSEMBLY OF A TEST ROUTINE, PROPER ORIGIN OR EQUAL CARDS SHOULD BE PREPARED FOR SYMBOLIC REFERENCES TO ADDRESSES IN THE SUBROUTINE, I.E. OK, ERROR, KONST, WDNO, RDNCK, RECNO- REFER TO SUBROUTINE LISTING.
- 2. IF SENSE SWITCH 4 IS DOWN AND NO ERRORS OCCUR EACH SECTION OF THE

PROGRAM IS REPEATED THE NUMBER OF TIMES THAT IS SPECIFIED IN SYMBOLIC LOCATION KONST+2. TO CHANGE THE COUNT FROM 50 OCTAL TO ANY DESIRED COUNT, PUT CONTENTS IN KONST+1 AND KONST+2.

FLOW CHART STANDARDIZED SENSE SWITCHES INTERROGATION IN DIAGNOSTIC ENGINEERING PRINT SUBROUTINE 9DEPR



9DEPR

* SENSE SWITCHES INTERROGATION AND DIAGNOSTIC
* PRINT SUBROUTINE FOR 709

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                                06500          ORG 3392

06500  0600 00 0 06551          STZ KONST+3  INDICATE I/O TYPE PRINT
06501  0020 00 0 06504          TRA ERROR
06502  0600 00 0 06551          STZ KONST+3  SET STORAGE TO ZEROS
                                          MODIFY INSTRUCTIONS FOR
                                          RETURN ADDR TO MAIN PROG

06503  0020 00 0 06533          TRA MOD
06504  0600 00 0 06546  ERROR  STZ KONST      DO NOT REPEAT SECTION
06505  0600 00 0 06547          STZ KONST+1  IF SENSE SW 4 IS DOWN

06506  0760 00 0 00162          PSE 114      IF SENSE SW 2 IS UP THEN-
06507  0020 00 0 06515          TRA SSW3      CHECK SSW 3
06510  2 00001 4 06511          TIX OK,4,1

06511  -0634 00 4 07570  OK     SXD LOC+1,4  2'S COMPL OF PROGRAM
                                          LOCATION LAST PREFORMED

06512  0760 00 0 00161          PSE 113      IF SENSE SW 1 IS UP THEN
06513  0020 00 0 06520          TRA RELY      CHECK SS 4
06514  0020 00 4 00001          TRA 1,4      IF DOWN REPEAR SECTION
                                          OF PROG

06515  0760 00 0 00163  SSW3   PSE 115      IF SENSE SW 3 IS UP
06516  0020 00 0 06655          TRA PRINT    PRINT ON ERROR
                                          IF SS 3 IS DOWN STOP ON
06517  0000 00 0 06510          HTR OK-1     ERROR
                                          HTR 2'S COMPLEMENT OF
                                          INDEX REGISTER C
                                          CONTIANS THE ERROR ADDRESS
                                          OF THE SECTION OF THE
                                          PROG IN ERROR

06520  0760 00 0 00164  RELY    PSE 116      IF SENSE SWITCH 5 IS UP
06521  0020 00 4 00003          TRA 3,4      GO TO NEXT SECTION OF
                                          THE PROG
                                          IF DOWN REPEAR SECTION
                                          OF THE PROGRAM N TIMES
                                          OR THE NUMEBR OF TIMES
                                          THAT IS SPECIFIED IN LOC
                                          KONST+2

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06522	0500	00	0	06547		CLA KONST+1	COUNTER
06523	0402	00	0	06546		SUB KONST	L+1 REDUCE COUNT BY 1
06524	0601	00	0	06547		STO KONST+1	
06525	-0100	00	0	06514		TNZ OK+3	
06526	0500	00	0	06550		CLA KONST+2	L+50 COUNT CONSTANT
06527	0601	00	0	06547		STO KONST+1	
06530	0500	00	0	07565		CLA STOR+7	L+1
06531	0601	00	0	06546		STO KONST	
06532	0020	00	4	00003		TRA 3,4	
06533	0600	00	0	06552	MOD	STZ KONST+4	SET STORAGE TO ZEROS
06534	0600	00	0	06547		STZ KONST+1	
06535	0600	00	0	06546		STZ KONST	
06536	0760	00	0	00162	ERR	PSE 114	IF SS 2 IS UP CHECK
06537	0020	00	0	06543		TRA SSW3A	SENSE SWITHC 3
06540	0760	00	0	00161	OK2	PSE 113	SSW1 UP-GO TO NEXT ROUTINE
06541	0020	00	4	00002		TRA 2,4	EXIT
06542	0020	00	4	00001		TRA 1,4	REPEAT TEST
06543	0760	00	0	00163	SSW3A	PSE 115	IS SENSE SWITCH 3 IS UP
06544	0020	00	0	06655		TRA PRINT	PRINT ERROR
06545	0000	00	0	06540		HTR OK2	2'S COMPLEMENT OF XRC CONTIANS THE ERROR ADDR OF SECTION OF PROG LAST EXECUTED
06546	+0000000000001				KONST	OCT 1	
06547	+0000000000050					OCT 50	
06550	+0000000000050					OCT 50	COUNT CONSTANT
06551	+0000000000001					OCT 1	
06552	+0000000000001					OCT 1	
06553	0020	00	0	06510		TRA OK-1	EXIT FROM PRINT PROG
06554	0020	00	0	06540		TRA OK2	EXIT FROM PRINT WHEN ENTRY IS TO ERROR-1
06555	+0000000000001					OCT 1	
06556	+0000000000000				WDNO	OCT	
06557	+0000000000000				RECNO	OCT	
PUT DSC REDUNDANCY CHECKS IN PRINT RECORD							
06560	0601	00	0	07556	RDNCK	STO STOR	ACC CONTENTS
06561	0771	00	0	00043		ARS 35	
06562	0602	00	0	07561		SLW STOR+3	OVFL BITS P + Q
06563	-0600	00	0	07557		STQ STOR+1	MQ CONTENTS
06564	-0500	00	0	07631		CAL MASK+9	RESET RECORD IMAGE
06565	0320	00	0	07553		ANS REC4R+9	INDICATIONS
06566	-0500	00	0	07617		CAL BIT2+3	

06567	0602	00	0	07552	SLW REC4R+8	FOR REDUNDANCY TAPE CK
06570	0602	00	0	06555	SLW KONST+7	PUT A BIT IN WORD
06571	0060	00	0	06571	TCOA *	CHECK CHAN IN OPERATION
06572	0061	00	0	06572	TCOB *	CHECK CHAN IN OPERATION
06573	0062	00	0	06573	TCOC *	CHECK CHAN IN OPERATION
06574	0063	00	0	06574	TCOD *	CHECK CHAN IN OPERATION
06575	0064	00	0	06575	TCOE *	CHECK CHAN IN OPERATION
06576	0065	00	0	06576	TCOF *	CHECK CHAN IN OPERATION
06577	-0500	00	0	07611	CHK4A CAL BIT+10	
06600	0771	00	0	00001	ARS 1	
06601	0022	00	0	06604	TRCA CHK4B-1	REDUNDANT TAPE CK DSCA
06602	-0602	00	0	07553	ORS REC4R+9	NO
06603	0020	00	0	06605	TRA CHK4B	
06604	-0602	00	0	07552	ORS REC4R+8	YES
06605	-0500	00	0	07615	CHK4B CAL BIT2+1	
06606	0771	00	0	00001	ARS 1	
06607	-0022	00	0	06612	TRCB CHK4C-1	RND TAPE CK DSC-B
06610	-0602	00	0	07553	ORS REC4R+9	NO
06611	0020	00	0	06613	TRA CHK4C	
06612	-0602	00	0	07552	ORS REC4R+8	YES
06613	-0500	00	0	07600	CHK4C CAL BIT+1	
06614	0771	00	0	00003	ARS 3	
06615	0024	00	0	06620	TRCC CHK4D-1	RND TAPE CK DSC-C
06616	-0602	00	0	07553	ORS REC4R+9	NO
06617	0020	00	0	06621	TRA CHK4D	
06620	-0602	00	0	07552	ORS REC4R+8	YES
06621	-0500	00	0	07607	CHK4D CAL BIT+8	
06622	0771	00	0	00001	ARS 1	
06623	-0024	00	0	06626	TRCD CHK4E-1	RND TAPE CK DSC-D
06624	-0602	00	0	07553	ORS REC4R+9	NO
06625	0020	00	0	06627	TRA CHK4E	
06626	-0602	00	0	07552	ORS REC4R+8	YES
06627	-0500	00	0	07610	CHK4E CAL BIT+9	
06630	0771	00	0	00001	ARS 1	
06631	0026	00	0	06634	TRCE CHK4F-1	RND TAPE CK DSC-E
06632	-0602	00	0	07553	ORS REC4R+9	NO
06633	0020	00	0	06635	TRA CHK4F	
06634	-0602	00	0	07552	ORS REC4R+8	YES
06635	-0500	00	0	07565	CHK4F CAL STOR+7	
06636	-0026	00	0	06641	TRCF CHK4F+4	RND TAPE CK DSC-F
06637	-0602	00	0	07553	ORS REC4R+9	NO
06640	0020	00	0	06642	TRA CHK4F+5	
06641	-0602	00	0	07552	ORS REC4R+8	YES
06642	0500	00	0	07552	CLA REC4R+8	WAS THERE A REDUNDANCY TAPE CHECK ON ANY CHAN
06643	0402	00	0	07617	SUB BIT2+3	IF NOT-RETURN TO MAIN
06644	0100	00	0	06646	TZE CONT	PROGRAM-OK
06645	0600	00	0	06555	STZ KONST+7	
06646	0500	00	0	07561	CONT CLA STOR+3	RESET REGISTERS

06647	0560	00	0	07556		LDQ	STOR	
06650	0763	00	0	00043		LLS	35	
06651	0560	00	0	07557		LDQ	STOR+1	
06652	0520	00	0	06555		ZET	KONST+7	
06653	0020	00	4	00002		TRA	2,4	CONTINUE PROG TAPE CHECK REDUNDANCY
06654	0020	00	0	06502		TRA	ERROR-2	INTERROGATE SENSE SWITCHES
								PRINT ROUTINE
06655	0601	00	0	07556	PRINT	STO	STOR	ACC CONTENTS
06656	0771	00	0	00043		ARS	35	
06657	0602	00	0	07561		SLW	STOR+3	OV FL BITS
06660	0754	00	2	00002		PXA	2,2	
06661	0621	00	0	07560		STA	STOR+2	XRB
06662	-0634	00	1	07560		SXD	STOR+2,1	PLACE XRA INTO DECR
06663	-0634	00	4	07561		SXD	STOR+3,4	PLACE XRC INTO DECR
06664	-0600	00	0	07557		STQ	STOR+1	MQ CONTENTS
06665	0500	00	0	07563	CHK1	CLA	STOR+5	L 100000
06666	0760	00	0	00012		DCT		DIV CK TEST
06667	-0602	00	0	07561		ORS	STOR+3	YES
06670	0771	00	0	00003		ARS	3	
06671	-0140	00	0	06673		TNO	CHK4-1	ACC OV FL-YES
06672	-0602	00	0	07561		ORS	STOR+3	NO
06673	0760	00	0	00000		CLM		SENSE SWITCHES
06674	0534	00	1	07566	CHK4	LXA	STOR+8,1	L +4
06675	0767	00	0	00003		ALS	3	
06676	-0760	00	1	00145		MSE	101,1	
06677	0020	00	0	06702		TRA	*+3	
06700	0400	00	0	07565		ADD	STOR+7	L +1
06701	0760	00	1	00145		PSE	101,1	RESET LITES
06702	2	00001	1	06675		TIX	CHK4+1,1,1	
06703	0534	00	1	07564	CHK3	LXA	STOR+6,1	L +6
06704	0767	00	0	00003		ALS	3	
06705	0760	00	1	00167		PSE	119,1	
06706	0020	00	0	06710		TRA	CHK3+5	
06707	0400	00	0	07565		ADD	STOR+7	L +1
06710	2	00001	1	06704		TIX	CHK3+1,1,1	
06711	0602	00	0	07562		SLW	STOR+4	RETAIN PSE + MSE INDICATIONS WAS ENTRY FROM SUB-
06712	0500	00	0	06552	CHK3A	CLA	KONST+4	ROUTINE AT ERROR-1
06713	0100	00	0	06721		TZE	CHK3A+7	YES
06714	0500	00	0	06660		CLA	PRINT+3	NO
06715	0621	00	0	06727		STA	CHK5+1	RESET ADDR
06716	0500	00	0	06553		CLA	KONST+5	
06717	0601	00	0	07310		STO	EXIT	
06720	0020	00	0	06726		TRA	CHK5	

06721	0500	00	0	07565		CLA	STOR+7	L+1
06722	0601	00	0	06552		STO	KONST+4	
06723	0621	00	0	06727		STA	CHK5+1	
06724	0500	00	0	06554		CLA	KONST+6	
06725	0601	00	0	07310		STO	EXIT	
OBTAIN TEST LOC AND ERROR ADDR								
06726	-0534	00	4	07561	CHK5	LXD	STOR+3,4	XRC
06727	-0754	00	4	00002		PXD	2,4	
06730	0760	00	0	00006		COM		
06731	0400	00	0	07616		ADD	BIT2+2	+1 TO DECREMENT
06732	0622	00	0	07567		STD	LOC	ERROR ADDR INTO DECR
06733	0771	00	0	00022		ARS	18	
06734	0402	00	0	06727		SUB	CHK5+1	L +2
06735	0621	00	0	06736		STA	CHK6	
06736	-0500	00	0	00000	CHK6	CAL	0	PLACE
06737	0621	00	0	07567		STA	LOC	TEST LOC INTO ADDR
06740	0630	00	0	07567		STP	LOC	
OBTAIN OPN OF INST								
06741	0402	00	0	07565		SUB	STOR+7	L +1
06742	0621	00	0	06743		STA	*+1	
06743	0560	00	0	00000		LDQ	0	BCD OPERATION
06744	0534	00	1	07564	CHK7	LXA	STOR+6,1	L +6
06745	0760	00	0	00000		CLM		
06746	-0763	00	0	00002		LGL	2	
06747	0734	00	4	00000		PAX	0,4	ZONE BIT
06750	-0763	00	0	00004		LGL	4	
06751	0340	00	0	07601		CAS	BIT+2	CHECK FOR BLANK L +60
06752	0020	00	0	06754		TRA	*+2	
06753	0020	00	0	06767		TRA	CHK7A	YES
06754	0340	00	0	07610		CAS	BIT+9	CHECK FOR HYPHEN
06755	0020	00	0	06757		TRA	*+2	
06756	0020	00	0	07414		TRA	TRAP	YES- INDICATES A TRAP ROUTINE
06757	-0320	00	0	07612		ANA	BIT+11	MASK FOR NUMERIC
06760	0734	00	2	00000		PAX	0,2	
06761	3	00012	2	06767		TXH	CHK7A,2,10	IGNORE SPECIAL CHARS
06762	0500	00	0	07600		CLA	BIT+1	COL INDICATOR
06763	0771	00	1	00006		ARS	6,1	
06764	-0602	00	2	07427		ORS	REC1L+9,2	
06765	-3	00000	4	06767		TXL	*+2,4	
06766	-0602	00	4	07432		ORS	REC1L+12,4	
06767	2	00001	1	06745	CHK7A	TIX	CHK7+1,1,1	
06770	0560	00	0	00000	CHK8	LDQ	0	
06771	0534	00	1	07602		LXA	BIT+3,1	L +14
06772	0074	00	2	07401		TSX	CH22,2	
06773	-0500	00	0	07611		CAL	BIT+10	COL IND
06774	0771	00	1	00014		ARS	12,1	
06775	-0602	00	4	07443		ORS	REC1R+9,4	
06776	2	00001	1	06772		TIX	*-4,1,1	

06777	-0500	00	0	07567	CH1	CAL LOC	PUT TEST LOC INTO IMAGE
07000	0765	00	0	00017		LRS 15	
07001	0534	00	1	07574		LXA LOC+5,1	L +5
07002	0074	00	2	07375		TSX CH21,2	
07003	-0500	00	0	07577		CAL BIT	BIT COLUMN 10
07004	0771	00	1	00005		ARS 5,1	
07005	-0602	00	4	07427		ORS REC1L+9,4	
07006	2 00001	1	1	07002		TIX CH1+3,1,1	
							PUT ERROR ADDR INTO IMAGE
07007	-0534	00	4	07567	CH5	LXD LOC,4	
07010	-0754	00	4	00000		PXD 0,4	
07011	0765	00	0	00041		LRS 33	
07012	0534	00	1	07574		LXA LOC+5,1	L +5
07013	0074	00	2	07375		TSX CH21,2	
07014	-0500	00	0	07575		CAL LOC+6	-0
07015	0771	00	1	00006		ARS 6,1	
07016	-0602	00	4	07443		ORS REC1R+9,4	
07017	2 00001	1	1	07013		TIX CH5+4,1,1	
							PUT PSE SW INTO IMAGE
07020	-0500	00	0	07562	CH7	CAL STOR+4	IMAGE
07021	0765	00	0	00022		LRS 18	
07022	0534	00	1	07564		LXA STOR+6,1	L +6
07023	0074	00	2	07375		TSX CH21,2	
07024	-0500	00	0	07610		CAL BIT+9	
07025	0771	00	1	00006		ARS 6,1	
07026	-0602	00	4	07443		ORS REC1R+9,4	
07027	2 00001	1	1	07023		TIX CH7+3,1,1	
07030	0534	00	4	07602	CH10	LXA BIT+3,4	PUT 1ST REC IN PR IMAGE
07031	0534	00	1	07573		LXA LOC+4,1	L +30
07032	-0500	00	4	07432		CAL REC1L+12,4	LEFT HALF IMAGE
07033	0602	00	1	07713		SLW PR+24,1	
07034	-0500	00	4	07446		CAL REC1R+12,4	
07035	0602	00	1	07714		SLW PR+25,1	
07036	2 00001	4	1	07037		TIX CH10+7,4,1	
07037	2 00002	1	1	07032		TIX CH10+2,1,2	
07040	0534	00	4	07602	CH11	LXA BIT+3,4	MASK IMAGE
07041	-0500	00	0	07620		CAL MASK	MASK
07042	0320	00	4	07432		ANS REC1L+12,4	
07043	-0500	00	0	07621		CAL MASK+1	
07044	0320	00	4	07446		ANS REC1R+12,4	
07045	-0500	00	0	07622		CAL MASK+2	MASK LEFT HALF
07046	0320	00	4	07462		ANS REC2L+12,4	2ND RECORD
07047	-0500	00	0	07623		CAL MASK+3	MASK RIGHT HALF
07050	0320	00	4	07476		ANS REC2R+12,4	
07051	-0500	00	0	07624		CAL MASK+4	MASK 3RD RECORD
07052	0320	00	4	07512		ANS REC3L+12,4	LEFT HALF
07053	-0500	00	0	07625		CAL MASK+5	
07054	0320	00	4	07526		ANS REC3R+12,4	

07055	-0500	00	0	07630		CAL MASK+8	MASK IND KEYS
07056	0320	00	4	07542		ANS REC4L+12,4	PRINT REC
07057	-0500	00	0	07626		CAL MASK+6	
07060	0320	00	4	07646		ANS P92+1,4	I/O IMAGE
07061	-0500	00	0	07627		CAL MASK+7	REC=, WORD =, ETC
07062	0320	00	4	07662		ANS P95+1,4	
07063	2 00001	4		07041		TIX CH11+1,4,1	
07064	0766	00	0	01361	CH14	WRS 753	PRINTER
07065	0760	00	0	01363		SPRA 3	DOUBLE REM PRINT FIRST LINE TEST LOC, ERROR ADDR
07066	0074	00	1	07406		TSX WPRA+1,1	
07067	0500	00	0	07567		CLA LOC	
07070	-0120	00	0	07276		TMI CH35-6	
07071	0500	00	0	07562	CH18	CLA STOR+4	PUT MSE LITES INTO IMAGE
07072	0765	00	0	00036		LRS 30	
07073	0534	00	1	07566		LXA STOR+8,1	L +4
07074	0074	00	2	07375		TSX CH21,2	
07075	-0500	00	0	07613		CAL BIT+12	BIT COL 6
07076	0771	00	1	00004		ARS 4,1	
07077	-0602	00	4	07457		ORS REC2L+9,4	
07100	-0500	00	0	07605		CAL BIT+6	BIT COL 5
07101	0771	00	1	00004		ARS 4,1	
07102	-0602	00	4	07643		ORS P92-2,4	
07103	2 00001	1		07074		TIX CH18+3,1,1	
07104	0500	00	0	06551		CLA KONST+3	IS THIS A MAIN FRAME
07105	0100	00	0	07311		TZE CH41	PRINT OUT -NO FORM CARD IMAGE FOR 2ND REC
07106	0500	00	0	07560	CH15	CLA STOR+2	
07107	0765	00	0	00041		LRS 33	
07110	0534	00	1	07566		LXA STOR+8,1	L +4
07111	0074	00	2	07375		TSX CH21,2	
07112	-0500	00	0	07604		CAL BIT+5	BIT COLUMN
07113	0771	00	1	00004		ARS 4,1	
07114	-0602	00	4	07457		ORS REC2L+9,4	
07115	2 00001	1		07111		TIX CH15+3,1,1	
07116	0074	00	2	07375		TSX CH21,2	
07117	-0500	00	0	07575		CAL LOC+6	L-0
07120	-0602	00	4	07473		ORS REC2R+9,4	
07121	0074	00	2	07375	CH16	TSX CH21,2	
07122	0534	00	1	07574		LXA LOC+5,1	L +5
07123	0074	00	2	07375		TSX CH21,2	
07124	-0500	00	0	07614		CAL BIT2	BIT COL 8
07125	0771	00	1	00005		ARS 5,1	
07126	-0602	00	4	07473		ORS REC2R+9,4	BIT IN IMAGE
07127	2 00001	1		07123		TIX CH16+2,1,1	
07130	0500	00	0	07561	CH17	CLA STOR+3	PUT XRC INTO IMAGE
07131	0765	00	0	00041		LRS 33	

07132	0534	00	1	07574		LXA	LOC+5,1	L +5
07133	0074	00	2	07375		TSX	CH21,2	
07134	-0500	00	0	07615		CAL	BIT2+1	BIT IN COL 19
07135	0771	00	1	00005		ARS	5,1	
07136	-0602	00	4	07473		ORS	REC2R+9,4	BIT IN IMAGE
07137	2	00001	1	07133		TIX	CH17+3,1,1	
07140	0560	00	0	07557	CH27	LDQ	STOR+1	CONTENTS OF MQ
07141	0534	00	1	07602		LXA	BIT+3,1	L +14
07142	0074	00	2	07401		TSX	CH22,2	
07143	-0500	00	0	07611		CAL	BIT+10	BIT COL 15
07144	0771	00	1	00014		ARS	12,1	
07145	-0602	00	4	07457		ORS	REC2L+9,4	
07146	2	00001	1	07142		TIX	CH27+2,1,1	
07147	-0500	00	0	07572		CAL	LOC+3	WAS ROUTINE USING TRAP
07150	0402	00	0	07610		SUB	BIT+9	
07151	-0100	00	0	07155		TNZ	*+4	NO
07152	-0500	00	0	07565		CAL	STOR+7	L +1
07153	-0602	00	0	07472		ORS	REC2R+8	
07154	0020	00	0	07157		TRA	*+3	
07155	-0500	00	0	07565		CAL	STOR+7	L +1
07156	-0602	00	0	07473		ORS	REC2R+9	
07157	0600	00	0	07572		STZ	LOC+3	
07160	0534	00	4	07602	CH23	LXA	BIT+3,4	
07161	0534	00	1	07573		LXA	LOC+4,1	L +30
07162	-0500	00	4	07462		CAL	REC2L+12,4	LEFT HALF
07163	0602	00	1	07713		SLW	PR+24,1	
07164	-0500	00	4	07476		CAL	REC2R+12,4	RIGHT HALF IMAGE
07165	0602	00	1	07714		SLW	PR+25,1	
07166	2	00001	4	07167		TIX	CH23+7,4,1	
07167	2	00002	1	07162		TIX	CH23+2,1,2	
07170	0074	00	1	07405		TSX	WPRA,1	PRINT 2ND LINE
07171	-0500	00	0	07561	CH20	CAL	STOR+3	PUT TRGS INTO
07172	0765	00	0	00022		LRS	18	IMAGE
07173	0074	00	2	07375		TSX	CH21,2	
07174	-0500	00	0	07565		CAL	STOR+7	BIT IN 35
07175	-0602	00	4	07507		ORS	REC3L+9,4	INDICATE DIV CK
07176	0074	00	2	07375		TSX	CH21,2	
07177	-0500	00	0	07603		CAL	BIT+4	BIT COL 12
07200	0771	00	0	00001		ARS	1	
07201	-0602	00	4	07523		ORS	REC3R+9,4	ACC OVFL
07202	0760	00	0	00000	CH24	CLM		PUT Q + P BITS
07203	0763	00	0	00013		LLS	11	INTO IMAGE
07204	0734	00	4	00000		PAX	0,4	
07205	-0500	00	0	07603		CAL	BIT+4	BIT IN COL 4
07206	0767	00	0	00002		ALS	2	

07207	-0602	00	4	07507		ORS REC3L+9,4	Q BIT
07210	0760	00	0	00000		CLM	GET P BIT
07211	0763	00	0	00001		LLS	1
07212	0734	00	4	00000		PAX	0,4
07213	-0500	00	0	07603		CAL	BIT+4
07214	0771	00	0	00002		ARS	2 BIT IN COL 13
07215	-0602	00	4	07507		ORS REC3L+9,4	
07216	0560	00	0	07556	CH25	LDQ	STOR
07217	-0500	00	0	07605		CAL	BIT+6 PUT + SIGN OF
07220	0162	00	0	07223		TQP	CH25+5 ACC IN IMAGE
07221	-0602	00	0	07510		ORS REC3L+10	MINUS SIGN OF ACC IN IMAGE
07222	0020	00	0	07224		TRA	CH26
07223	-0602	00	0	07511		ORS REC3L+11	INTO IMAGE
07224	0534	00	1	07602	CH26	LXA	BIT+3,1 L +14
07225	0074	00	2	07401		TSX	CH22,2
07226	-0500	00	0	07611		CAL	BIT+10 BIT COL 15
07227	0771	00	1	00014		ARS	12,1
07230	-0602	00	4	07507		ORS REC3L+9,4	
07231	2	00001	1	07225		TIX	CH26+1,1,1
07232	0534	00	4	07602	CH30	LXA	BIT+3,4 PUT 3RD REC INTO
07233	0534	00	1	07573		LXA	LOC+4,1 PRINT IMAGE
07234	-0500	00	4	07512		CAL	REC3L+12,4 LEFT HALF
07235	0602	00	1	07713		SLW	PR+24,1
07236	-0500	00	4	07526		CAL	REC3R+12,4 RIGHT HALF
07237	0602	00	1	07714		SLW	PR+25,1
07240	2	00001	4	07241		TIX	CH30+7,4,1
07241	2	00002	1	07234		TIX	CH30+2,1,2
07242	0074	00	1	07405		TSX	WPRA,1 PRINT 3RD LINE
07243	0604	00	0	07663	CH32	STI	PR PUT INDICATORS IN REC
07244	0560	00	0	07663		LDQ	PR STORE INDICATORS
07245	0534	00	1	07602		LXA	BIT+3,1 L +14
07246	0074	00	2	07401		TSX	CH22,2
07247	-0500	00	0	07605		CAL	BIT+6
07250	0771	00	1	00015		ARS	13,1
07251	-0602	00	4	07537		ORS REC4L+9,4	INDICATORS INTO
07252	2	00001	1	07246		TIX	CH32+3,1,1 PRINT RECORD
07253	0760	00	0	00004	CH33	ENK	PUT CONTENT OF KEYS IN
07254	0534	00	1	07602		LXA	BIT+3,1 L +14
07255	0074	00	2	07401		TSX	CH22,2
07256	-0500	00	0	07600		CAL	BIT+1
07257	0771	00	1	00020		ARS	16,1
07260	-0602	00	4	07537		ORS REC4L+9,4	KEYS CONTENTS INTO
07261	2	00001	1	07255		TIX	CH33+2,1,1 PRINT REC
07262	0534	00	4	07602	CH34	LXA	BIT+3,4 L+14 PUT 4TH REC
07263	0534	00	1	07573		LXA	LOC+4,1 L +30
07264	-0500	00	4	07542		CAL	REC4L+12,4
07265	0602	00	1	07713		SLW	PR+24,1
07266	-0500	00	4	07556		CAL	REC4R+12,4 TAPE CHECK INDICATORS

07267	0602	00	1	07714		SLW	PR+25,1	
07270	0520	00	0	06555		ZET	KONST+7	
07271	0600	00	1	07714		STZ	PR+25,1	
07272	2	00001	4	07273		TIX	*+1,4,1	
07273	2	00002	1	07264		TIX	CH34+2,1,2	
07274	0074	00	1	07405		TSX	WPRA,1	PRINT CONTENTS OF INDS
07275	0500	00	0	07565		CLA	STOR+7	L+1
07276	0601	00	0	06551		STO	KONST+3	RESET ACC + MQ CONTENTS
07277	0601	00	0	06555		STO	KONST+7	
07300	0500	00	0	07561		CLA	STOR+3	OVFL BITS
07301	0560	00	0	07556		LDQ	STOR	ACC CONTENTS
07302	0763	00	0	00043		LLS	35	
07303	0560	00	0	07557		LDQ	STOR+1	
07304	0534	00	2	07560	CH35	LXA	STOR+2,2	XRB
07305	-0534	00	1	07560		LXD	STOR+2,1	XRA
07306	-0534	00	4	07561		LXD	STOR+3,4	XRC
07307	0140	00	0	07310		TOV	EXIT	
07310	0020	00	0	06510	EXIT	TRA	OK-1	
07311	0500	00	0	06555	CH41	CLA	KONST+7	IS THIS A REDUNDANCY
07312	0100	00	0	07243		TZE	CH32	TAPE CK PRINT-OUT
								YES
								CLEAR RECORD IMAGE
07313	0534	00	1	07573		LXA	LOC+4,1	LOC +30
07314	0600	00	1	07713		STZ	PR+24,1	
07315	2	00001	1	07314		TIX	*-1,1,1	
07316	-0500	00	0	07557		CAL	STOR+1	WORD GENERATED
07317	0602	00	0	07704	CH43	SLW	PR+17	
07320	0760	00	0	00006		COM		
07321	0602	00	0	07706		SLW	PR+19	PRINT IMAGE
07322	0534	00	1	07602		LXA	BIT+3,1	L +14
07323	0534	00	2	07573		LXA	LOC+4,2	LOC +30
07324	-0500	00	1	07646		CAL	P92+1,1	
07325	0602	00	2	07713		SLW	PR+24,2	
07326	2	00001	1	07327		TIX	CH43+8,1,1	
07327	2	00002	2	07324		TIX	CH43+5,2,2	
07330	0074	00	1	07411		TSX	WPR,1	PRINT WORD GENERATED
07331	0500	00	0	07560	CH45	CLA	STOR+2	
07332	0771	00	0	00022		ARS	18	
07333	0402	00	0	06556		SUB	WDNO	WORD NUMBER
07334	0765	00	0	00017		LRs	15	
07335	0534	00	1	07574		LXA	LOC+5,1	L+5
07336	0074	00	2	07375	CH46	TSX	CH21,2	
07337	-0500	00	0	07606		CAL	BIT+7	BIT COL 17
07340	0771	00	1	00005		ARS	5,1	

07341	-0602	00	4	07657		ORS P93,4	WORD NUMBER INTO
07342	2	00001	1	07336		TIX CH46,1,1	IMAGE
07343	0534	00	2	07560	CH47	LXA STOR+2,2	XRB
07344	0760	00	0	00000		CLM	
07345	0754	00	2	00000		PXA 0,2	
07346	0402	00	0	06557		SUB RECNO	RECORD NUMBER
07347	0765	00	0	00017		LRS 15	
07350	0534	00	1	07574		LXA LOC+5,1	L+5
07351	0074	00	2	07375	CH48	TSX CH21,2	
07352	-0500	00	0	07605		CAL BIT+6	BIT COL 5
07353	0771	00	1	00005		ARS 5,1	
07354	-0602	00	4	07657		ORS P93,4	
07355	2	00001	1	07351		TIX CH48,1,1	
07356	0534	00	1	07573	CH49	LXA LOC+4,1	L +30
07357	0600	00	1	07713		STZ PR+24,1	
07360	2	00001	1	07357		TIX *-1,1,1	
07361	-0500	00	0	07556		CAL STOR	WORD READ
07362	0602	00	0	07704	CH50	SLW PR+17	
07363	0760	00	0	00006		COM	
07364	0602	00	0	07706		SLW PR+19	
07365	0534	00	1	07602	CH51	LXA BIT+3,1	L +14
07366	0534	00	2	07573		LXA LOC+4,2	L +30
07367	-0500	00	1	07662		CAL P95+1,1	
07370	0602	00	2	07713		SLW PR+24,2	
07371	2	00001	1	07372		TIX CH51+5,1,1	
07372	2	00002	2	07367		TIX CH51+2,2,2	
07373	0074	00	1	07411		TSX WPR,1	PRINT WORD WRITTEN
07374	0020	00	0	07243		TRA CH32	PRINT INDICATORS AND KEYS
07375	0760	00	0	00000	CH21	CLM	
07376	0763	00	0	00003		LLS 3	
07377	0734	00	4	00000		PAX 0,4	
07400	0020	00	2	00001		TRA 1,2	
07401	0760	00	0	00000	CH22	CLM	
07402	-0763	00	0	00003		LGL 3	
07403	0734	00	4	00000		PAX 0,4	
07404	0020	00	2	00001		TRA 1,2	
07405	0766	00	0	01361	WPRA	WPRA	
07406	0540	00	0	07662		RCHA CTWD	
07407	0060	00	0	07407		TCOA *	
07410	0020	00	1	00001		TRA 1,1	EXIT
07411	0766	00	0	01361	WPR	WPRA	
07412	0760	00	0	01364		SPRA 4	
07413	0020	00	0	07406		TRA WPRA+1	
07414	0601	00	0	07572	TRAP	STO LOC+3	
07415	0020	00	0	06767		TRA CHK7A	

07416	+000000000320	REC1L	OCT 320,10001000,1000000
07417	+000010001000		
07420	+000001000000		
07421	+004002000042		OCT 4002000042,200000400400
07422	+200000400400		
07423	+000000000000		OCT 0,452010001005
07424	-052010001005		
07425	+100000000000		OCT 100000000000,0,540010001000
07426	+000000000000		
07427	-140010001000		
07430	+014003400366		OCT 14003400366,202000000401
07431	+202000000401		
07432	+000000000000	REC1R	OCT 0,4000001000,0,100000200
07433	+004000001000		
07434	+000000000000		
07435	+000100000200		
07436	+000000000000		OCT 0,0,4240001000,400,0
07437	+000000000000		
07440	+004240001000		
07441	+000000000400		
07442	+000000000000		
07443	+005000001600		OCT 5000001600,000300000000
07444	+000300000000		
07445	+000040000000		OCT 40000000
07446	+200000000100	REC2L	OCT 200000000100,440001000
07447	+000440001000		
07450	+000000000200		OCT 200,0,40000000000
07451	+000000000000		
07452	+040000000000		
07453	+000100000000		OCT 100000000
07454	-100400001000		OCT -500400001000,0,40
07455	+000000000000		
07456	+000000000040		
07457	+100400001200		OCT 100400001200
07460	-000140000100		OCT -400140000100
07461	+240000000040		OCT 240000000040
07462	+020004000404	REC2R	OCT 20004000404
07463	+200040010000		OCT 200040010000
07464	+040010000110		OCT 40010000110,0,0,0
07465	+000000000000		
07466	+000000000000		
07467	+000000000000		
07470	+200042011020		OCT 200042011020
07471	+010000000000		OCT 10000000000,200
07472	+000000000200		
07473	+240050011020		OCT 240050011020
07474	+020004000504		OCT 20004000504,10002000210
07475	+010002000210		
07476	+000000000100	REC3L	OCT 100,14420001000
07477	+014420001000		
07500	+000200000000		OCT 200000000,0,40,200
07501	+000000000000		
07502	+000000000040		
07503	+000000000200		
07504	+310420001010		OCT 310420001010,4,-0

07505	+0000000000004		
07506	-0000000000000		
07507	+010420001040	OCT	10420001040,4200000004
07510	+0042000000004		
07511	-3000000000310	OCT	-7000000000310
07512	+0000000000000	REC3R	OCT 0,-400040000000,0
07513	-0000400000000		
07514	+0000000000000		
07515	+0050000000000	OCT	5000000000,2000000000,0
07516	+0020000000000		
07517	+0000000000000		
07520	-0604400000000	OCT	-460440000000,0
07521	+0000000000000		
07522	1 00000 0 00000	PON	
07523	-0020400000000	OCT	-4020400000000
07524	+0044000000000	OCT	4400000000,161000000000
07525	+1610000000000		
07526	-0000000000000	REC4L	OCT -0,1040000,0,0
07527	+000001040000		
07530	+0000000000000		
07531	+0000000000000		
07532	+200000100000	OCT	200000100000,100000000000
07533	+1000000000000		
07534	+000001000000	OCT	1000000,40000220000,0
07535	+040000220000		
07536	+0000000000000		
07537	+040001060000	OCT	40001060000,200000200000
07540	+200000200000		
07541	-100000100000	OCT	-500000100000
07542	+0000000000000	REC4R	OCT 0,400002104210
07543	-000002104210		
07544	+0400000000000	OCT	40000000000,4
07545	+0000000000004		
07546	+0200000000100	OCT	20000000100,500002000
07547	+000500002000		
07550	-204002144210	OCT	-604002144210,2201000000
07551	+002201000000		
07552	+1000200000000	OCT	100020000000,-600302104210
07553	-200302104210		
07554	+0430000000000	OCT	043000000000,124521042104
07555	+124521042104		
07556	+0000000000000	STOR	OCT 0 ACC CONTENTS
07557	+0000000000000		OCT 0 MQ CONTENTS
07560	+0000000000000		OCT 0 XRA AND XRB
07561	+0000000000000		OCT 0 XRC, OVRL TRGS, TAPE CK
07562	+0000000000000		OCT 0 PSE + MSE VALUES
07563	+000000100000		OCT 100000
07564	+0000000000006		OCT +6
07565	+0000000000001		OCT +1
07566	+0000000000004		OCT +4
07567	+0000000000000	LOC	OCT 0 TEST LOC + ERROR ADDR
07570	+0000000000000		OCT 0 DECREMENT CONTAINS 2,5
* COMPLEMENT OF LAST ROUTINE PREFORMED			
07571	+0000000000000		OCT 0 +0
07572	+0000000000000		OCT 0 TRAP ROUTINE INDICATOR

07573	+0000000000030		OCT +30
07574	+0000000000005		OCT 5
07575	-0000000000000		OCT -0
07576	+0000000000007		OCT 7
07577	+0004000000000	BIT	OCT 400000000 BIT COL 10
07600	+0000001000000		OCT 100000 BIT COL 21
07601	+0000000000060		OCT 60
07602	+0000000000014		OCT 14
07603	+0002000000000		OCT 200000000 BIT COL 11
07604	+0000000000010		OCT 10 BIT COL 33
07605	+0200000000000		OCT 020000000000 BIT COL 5
07606	+0000020000000		OCT 2000000 BIT COL 17
07607	+0000000010000		OCT 1000 BIT COL 27
07610	+0000000000040		OCT 40 BIT COL 31
07611	+0000100000000		OCT 10000000 BIT COL 15
07612	+0000000000017		OCT 17
07613	+0100000000000		OCT 0100000000000
07614	+0020000000000	BIT2	OCT 0020000000000 BIT COL 8
07615	+0000004000000		OCT 400000 BIT COL 19
07616	+0000010000000		OCT 1000000
07617	+1000200000000		OCT 1000200000000
07620	-377017601777	MASK	OCT 777017601777 TEST LOC ETC
07621	-007760001700		OCT 407760001700
07622	-360760001760		OCT -760760001760 MQ ETC
07623	+374077017776		OCT 374077017776
			MAKE FOR REC3
07624	-356720001776		OCT -756720001776 ACC AND TRIGGER
07625	-3776700000000		OCT -7776700000000
07626	-3417777777777		OCT -7417777777777 I/O ETC
07627	-3407740777777		OCT -7407740777777
07630	-3600017600000		OCT -7600017600000 MASK FOR 4TH REC
07631	-377773567356		OCT -777773567356 MASK
07632	+000003204020		OCT 000003204020
07633	+0010001000000		OCT 1000100000,20000400
07634	+000020000400		
07635	+000100430000		OCT 00100430000
07636	+100004000342		OCT 100004000342,-400040002001
07637	-000040002001		
07640	+0012001000004		OCT 1200100004,200000000000
07641	+2000000000000		
07642	+0000000000010		OCT 10
07643	+2010001200004		OCT 201000120004
07644	-000163614120		OCT -400163614120
07645	+100204002653	P92	OCT 100204002653
07646	-000020000220		OCT -400020000220,400040000
07647	+000400040000		
07650	+0000000000000		OCT 0,140001400
07651	+000140001400		
07652	+2000000000010		OCT 2000000000010,10000102
07653	+000010000102		
07654	+100400040000		OCT 100400040000,0,4
07655	+0000000000000		
07656	+0000000000004		
07657	+000500041000	P93	OCT 500041000

07660	-000060000620		OCT	-400060000620	
07661	+300010000116	P95	OCT	300010000116	
07662	0000 30 0 07663	CTWD	HTR	PR,0,24	CONTROL WORD FOR PRINTING
07663	+000000000000	PR	OCT		PRINT IMAGE
	00000		END		

EOF*