

R0001 WE ARE DEEPLY INDEBTED TO THE ONE, THE ONLY, THE GREAT JOHN SHAW FOR THE FOLLOWING STRONG MAGIC....
 R0003 JSOCTL

0004 SETLOC,2 SIZ PASS 1 B1

0005 MASKGRP,1 S,0 F,0

R0006 THE BLK2 PART OF PASS 1 CONTAINS THE FOLLOWING DATA:

R0007 MAXIMUM LEGAL NUMERIC OPERATION CODE, GREATEST ADDRESS OF A MEMORY LOCATION, DITTO +1, BLOCK (BANK) SIZE -1,
 R0009 SHIFT AMOUNTS FOR CONVERTING A BLOCK NUMBER TO AN ADDRESS AND FOR STORING A NUMERIC OPERATION CODE, A TABLE
 R0011 SHOWING WHICH LOCATIONS IN BLK2 ARE ERASABLE, FIXED, AND SPECIAL/NONEXISTENT, AND A TABLE OF SYMBOLIC OPERA-
 R0013 TION CODES, EACH WITH EITHER CODED BINARY INFORMATION (INSTRUCTION CODES) OR AN ADDRESS (CLERICAL CODES).
 R0015 IN BLK2 PASS 1, THIS TABLE IS LOCATED IN BANK 5.

R00152 CODING IS ALSO PROVIDED HERE TO TRANSLATE THE ADDRESS FIELD OF A POLISH OPERATOR CARD INTO AN INTERNAL CODE.

R0016 IN BLK2, BANKS AND BLOCKS ARE THE SAME SIZE. BANK NOS. ARE BLOCK NOS. REDUCED BY 4. THUS 10000 BEGINS BANK 00.

R0018 QUANTITIES FILLED IN FOR REFERENCE BY GENERAL PASS 1.

0019	B2 OP THRS SPEC		OP THRS		
0020	B2 MAX NOP FXBIN	7			
0021	B2 MAX LOC OCT	-167777			
0022	B2 ADR LIM OCT	-170000			
0023	B2 BLK 15 OCT	-1777			
0024	B2 SHIFTS OCT	0000 0042 24			
0025	B2 TYP TAB CAC	COUNT STA	2048	BLK2 MEMO	-
00251	B2 SJ3 LOC EQUALS	B2 TYP TAB			
00252	B2 COJNSP EQUALS	B2 TYP TAB			
0027	*B2 SPCIAL TS	C,+1	OP FOUND	SEG TEST	
0028	SSL, ONE	N,X4	0	POLISH 3	C FIND OUT WHETHER IT'S A POLISH 3P WORD.
00291	B2 ELEFT P CAC	8309		B2 ELEFT0	
00292	B2 FLEFT P CAC	6165	2048	B2 FLEFT0	-

0030	BLK2 MEMO OCT	-1000 0057			
0031	OCT	-4000 3777			
0032	OCT	-2001 3777			
0033	OCT	-1001 7777			
0035	OCT	-2011 7777			
00351	*SEG MEMO OCT	-1016 7777			
0036	DEC	BB00 FFFF			
0037	RESERVE	21			

BANKS 02 AND 03 ACCESS FIXED-FIXED.

P0038 SPECIAL BANK, BLOCK, 2FCADR, AND 2(3)CADR CODE INTRODUCTIONS.

0039	BLK2 BANK	TS	C,+1	CH BL SIZE	BLOCK		SET UP TO INCREASE BANK NUMBER BY 4.
00402		TS	C,+3	CH BL SIZE	C,+1	C	ALSO RESTORE BLOCK ROUTINE.
00404		NA, B2B6	FIELD COD	ONES	C,+2	C	OMIT INCREASE FOR BLANK BANK.
0041		WA	LOC VALUE	BIT 36R	LOC VALUE	C	
0042		LA	LOC VALUE	MAX LOC	CH BL SIZE +2	S	

0044	BLK2 3L0K	TS	C,-1	CH BL SIZE	BLOCK		SET UP TO DO BLOCK PROCEDURE NORMALLY.
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0046	B2 2FCADR	SWS, B22T32	N,SC,3	16,L	HEALTH		2FCADR IS A DOUBLE PRECISION ADR. CONST.
0048		OCT	-370				

0049	B2 2BCADR	SWS, B22T32	N,SC,1	16,L	HEALTH		2BCADR IS A DOUBLE PRECISION ADR. CONST.
0051		OCT	-374				
0052		TS, CD TYPE	(INSTR)	HEALTH	2 DECIMAL +1		

R0053 PASS 1 PROCESSING OF THE EBANK=, SBANK=, AND BNKSUM CODES.

0054	BL2 EBANK	SWS, B22T32	N,SC,5	16,L	HEALTH		EBANK= ESTABLISHES AN E-BANK FOR PASS 2
0056		OCT	-740				CHECKING OF REFERENCES.

00572	BL2 SBANK	SWS, B22T32	N,SC,3	16,L	HEALTH		SBANK= ESTABLISHES AN S-BANK FOR PASS 2
00574		OCT	-744				CHECKING OF REFERENCES.

00576	BL2 BNKSM	SWS, B22T32	N,SC,1	16,L	HEALTH		BNKSUM FORMS TC SELF PAIRS AT BANK ENDS.
00578		OCT	-750				

0058		TS, CD TYPE	(NW INST)	HEALTH	ND SETLOC		MAYBE CUSS NON-BLANK LOC. FIELD, EXIT.
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00581	B2 DNPTR	SM	HEALTH	N,SC,1	HEALTH		DNPTR IS A CA WITH A CONSTANT FLAG.
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00583		OCT	0000 0060 7				
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00584		TS	-	-	INSTRUCT		
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00586	B2 DNCHAN	TS	Z,SC,6	Z,SH	SET B2 MXR	C	DNCHAN IS AN ECADR WITH A 7 PREFIX.
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00588	L ECADR COD	SPEC			ECADR COD		
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0059	B2 6DNADR	TS	Z,SC,4	Z,SH	SET B2 MXR	C	
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00592	B2 5DNADR	TS	Z,SC,3	Z,SH	SET B2 MXR	C	
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00594	B2 4DNADR	TS	Z,SC,2	Z,SH	SET B2 MXR	C	
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00596	B2 3DNADR	TS	Z,SC,1	Z,SH	SET B2 MXR	C	
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00598	B2 2DNADR	TS	Z,SC	Z,SH	SET B2 MXR	C	
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0060		WD	Z,SC	Z,SH	Z,SH		
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00602		MASKGRP,3	S,1	F,1			
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00604		SWS, B18T24M	Z,SH	27,L	HEALTH		NDNADR IS AN ECADR WITH AN N-1 PREFIX.
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00606		TX	P1 MASKS	-	Z,MXR		
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00608		TS	L ECADR COD	Z,X4	OP FOUND		
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P0061 FIELD AND SHIFT MASKS FOR THE BLK2 PART OF PASS 1.

00619	B,VMASKM	OCT	0
0062	B,CLT6M	OCT	7777 7777 7777
0063	B,ONESM	OCT	7777 7777 7777 7777
0064	B,B18T24M	OCT	0000 0177
0065	B,B22T25M	OCT	0000 0007 4
0066	B,B25T31M	OCT	-7740 0000
0067	B,BIT31M	OCT	-40 0000
0068	B,B37348M	OCT	-4001
0069	B,C7T3M	OCT	-7777

R0071 CONSTANTS.

00712	OCT 1400	OCT	-1400
0072	BLK2 MXR	MASKBASE	S,1 F,1
0073	B33T38M	OCT	-176000
00731	B38T40M	OCT	-3400
0074	BLANK OP 2	OCT	-5720 0000
0075	STAR C7	ALF	*
0076	STAR C8	ALF	*

R00761 SPECIAL ROUTINE IN PASS 1 FOR BLK2 TO ALLOCATE LEFTOVER ERASED REGIONS TO ERASABLE BANKS.

00762	B2 ELEFTO	LA	OCT 4000	LOC CTR	GOT ELEFP	IF LOC CTR IS IN FIXED, ORIG. PARAM OK.
00763		LA	OCT 1400	LOC CTR	C,+3	
00764		TS	C,+1	COMMON +2	GOT ELEFP	IF LOC CTR IN UNSWITCHED E, SO IS LEFTO.
00765		CAC		8229		
00766		SS	LOC CTR	B38T40M	C,+2	IF LOC CTR IS IN A BANK, SO IS LEFTOVER.
00767		TS	C,+1	COMMON +2	GOT ELEFP	
00768		CAC		8197		

R0077 SPECIAL ROUTINE IN PASS 1 FOR BLK2 TO ALLOCATE LEFTOVER INSTRUCTIONS AND CONSTANTS TO FIXED BANKS.

00771	B2 FLEFTO	LA	LOC CTR	C7T8	FF OR ERAS	
007712		LA	ONES	LOC CTR	FF OR ERAS +1	IF BAD LOC CTR, ANYWHERE IN FIXED IS OK.
00772		SS	LOC CTR	B33T38M	C,+2	IF LOC CTR IS IN A BANK, SO IS LEFTOVER.
00773		TS	C,+1	COMMON +2	GOT FLEFP	
00774		CAC		6149		
00775	FF OR ERAS	LA	OCT 4000	LOC CTR	GOT FLEFP	IF FIXED FIXED, ORIG. PARAMETER WAS OK.
00776		TS	C,+1	COMMON +2	GOT FLEFP	IF ERASABLE, ANYWHERE IN FIXED IS OK.
00777		CAC		7061	2048	

R00778 *SPECIAL ROUTINE IN PASS 1 FOR BLK2 TO CHANGE FIXED MEMORY TO SPEC/NON IN A SEGMENT ASSEMBLY.

007782*	SEG TEST	EX	SWITCH	BIT 7	SEG TEST	
007784*		LA	SEG TEST	ZERO	POST SPEC	EXIT IF NOT IN A SEGMENT ASSEMBLY.
00779 *		TN	SEG MEMO	2	BLK2 MEMO +2	CHANGE FIXED TO SPEC/NON AND EXIT.
007792*		TS	-	-	POST SPEC	

P0078 SPECIAL ROUTINE IN PASS 1 FOR BLK2 TO RESPOND TO THE FINDING OF AN INSTRUCTION OPERATION CODE. IF
 R0080 THE CODE IS A BASIC INSTRUCTION OR AN ADDRESS CONSTANT, SETS 11 BITS INTO HEALTH AS USUAL, AND RETURNS TO THE
 R0082 GENERAL INSTRUCTION-PROCESSING PROCEDURE. IF THE CODE IS A POLISH OPERATOR, THE SEVEN-BIT EQUIVALENT IS PLACED
 R0084 IN BITS 18-24 OF HEALTH AND THE ADDRESS FIELD, WITH INDEXING ASTERISK (IF ANY) BLANKED OUT, IS INTERPRETED AS
 R0086 FOLLOWS: BLANK: OPERATOR 136 (INTERNAL CODES), ANY OTHER FORMAT BUT PURE SYMBOLIC: OPERATOR 137, SYMBOLIC: VALUE
 R0088 FROM TABLE OF INTERNAL CODES IF POLISH OPERATOR, OR OPERATOR 137 OTHERWISE.

00895		MASKGRP,1	S,0	F,0		
0090	POLISH Q	SWS, B22T32	N,X4	16,L	HEALTH	S SEND BITS AS USUAL IF NOT POLISH.
0092		MASKGRP,3	S,1	F,1		
0093		TS	BLK2 MXR	Z, MXR	C,+1	
0094		SWS, B18T24M	N,X4	21,L	HEALTH	SEND EQUIVALENT OF LEFT OPERATOR.
0096		SM	HEALTH	BLANK OP 2	HEALTH	PLANT POLISH BIT AND OPERATOR 136.
0098		TS	P1 MASKS	Z, MXR	DECOD ADR	C DECODE ADDRESS FIELD.
0100		LA	FIELD COD	ZERO	INSTRUCT	FAST EXIT FOR BLANK (VACUOUS) OPERATOR.
0102	SET B2 MXR	TX	BLK2 MXR	-	Z, MXR	S
0103		NA	FIELD COD	BIT 1	POLE FAIL	BRANCH IF ADDRESS FIELD IS NOT SYMBOLIC.
0105		LA	FIELD COD +1	ZERO	SEEK STAR -1	BRANCH IF NO MODIFIER.
0107	POLE FAIL	TS, BIT31M	ONES	HEALTH	B2 P1 EXIT	INDICATE FAILURE AND EXIT.
0109		NA, C7T8M	ADR WD	STAR C8	C,+2	BRANCH IF NO DETACHED ASTERISK.
0111		TS, C7T8M	BLANKS	ADR WD	POLE SEEK	BLANK OUT ASTERISK, LOOK UP CODE.
0113		NA, C7T8M	ADR WD	STAR C7	POLE FAIL	BRANCH IF OPERATOR SYMBOL TOO LONG.
0115		TS, C7T8M	BLANKS	ADR WD	POLE SEEK	BLANK OUT ASTERISK, LOOK UP CODE.
0117		NA, C7T8M	ADR WD	BLANKS	POLE FAIL +1	BRANCH IF MORE THAN SIX CHARACTERS.
0119	SEEK STAR	TS	N L CHAR 6	Z,X4	C,+2	REVERSE BASE FOR SET OF CHARACTER MASKS.
0121		NA, VMASK M	ADR WD	BLANKS	C,+2	SCAN TO LEFT UNTIL A CHARACTER IS FOUND.
0123		TS	N,X4,1	N, MXR	C,-1	
0124		NA, VMASK M	ADR WD	ASTRISKS	POLE SEEK	PROCEED WITH SEARCH IF NO ASTERISK.
0126		SS	BLANKS	N, MXR	ADR WD	BLANK OUT ATTACHED ASTERISK.
0128	POLE SEEK	TX	B2 OP THRS	-	Z,X4	
0129		SWS, B22T25M	ADR WD	17	C,+1	
0130		SWE, ONES M	4,0	0	Z,X4	SELECT SECTION OF OP CODE LIST.
0132		TX	Z, SC, 1	-	-	
0133		LA	N,X4,1	ZERO	POLE FAIL	BRANCH IF OP CODE NOT FOUND.
0135		NA, C1T6M	ADR WD	4,0	C,-1	SEARCH THROUGH SELECTED SUBLIST.
0137		NA, B37B43M	4,0	ONES	POLE FAIL	BRANCH IF FIND IS NOT A POLISH OPERATOR.
0139		SWS, B25T31M	N,X4	14,L	HEALTH	SEND INTERNAL CODE FOR 2ND OPERATOR.
0141	B2 P1 EXIT	TS	P1 MASKS	Z, MXR	INSTRUCT	

P01411 SPECIAL PROCESSING FOR COUNT* CODE.

014115	MASKGRP	S,0	F,0			
01412	COJNT STA	NA, CHAR1	ADR WD	DOLLARS	ILL COUNT	C
01413		NA, CHAR2	ADR WD	DOLLARS	ILL COUNT	C
01414		LA	BIT 36R	LOC CTR	C,+2	C
01415		TS	LOC CTR	COMMON	C,+2	C
01416		WD	LOC CTR	BIT 36R	COMMON	C
01417		SS	ZERO	CHAR2	ADR WD	C
01418		SWS, ACO2	COMMON	22	ADR WD	C
01419		SWS, CHAR1	COMMON	19	ADR WD	S

ROUTINE NAME MUST BEGIN WITH 2 DOLLARS.
REDUCE ADDRESS TO GET FIXED BANK NUMBER.

R0142 OPERATION CODE THREADS AND TABLES FOR 3LK2, USED IN PASS 1. SPECIAL INTERNAL CODES FOR POLISH OPS.

01432	SETLOC,3	0	B5	
01434	SETLOC,4	9	B5	
0144	OP THRS	CAC	CODES 01	BAD CODE
0145		CAC	CODES 11	CODES 10
0146		CAC	CODES 21	CODES 20
0147		CAC	CODES 31	CODES 30
0148		CAC	CODES 41	BAD CODE
0149		CAC	CODES 51	CODES 50
0150		CAC	CODES 61	CODES 60
0151		CAC	CODES 71	CODES 70

R0153 BLK2 OPERATION CODE TABLES. PLEASE IGNORE THE BANK ERRORS.

0154	CODES 01	M,A,MA	A,SK	A,	B,7400
0155		M,A,DC	A,A	A,	B,5420
0156		M,A,DC	A,S	A,	B,6020
0157		M,A,DA	A,S	A,	B,5010
0158		M,A,DI	A,M	A,	B,5330
0159		M,A,DA	A,D	A,	B,4331
0160		M,A,DD	A,V	A,	B,4211
0161		M,A,DC	A,OM	A,P	B,5221
0162		M,A,DC	A,OM	A,	B,6206
0163		M,A,DD	A,OU	A,BL	B,5042
0164		M,A,DE	A,C	A,	DECIMAL
01641		M,A,4D	A,NA	A,DR	B2 4DNADR
0165		M,A,HE	A,AD	A,	HEAD TAIL
0166		M,A,ME	A,MO	A,RY	LATE MEM
0167	BAD CODE	OCT	0		

P01675 BLK2 OPERATION CODE TABLES CONTINUED. PLEASE IGNORE THE BANK ERRORS.

0168	CODES 11	M,A,DX	A,CH	A,	B,6510
0169		M,A,QX	A,CH	A,	B,5130
0170		M,A,MS	A,U	A,	B,5030
0171		M,A,DV	A,	A,	B,4430
0172		M,A,MS	A,K	A,	B,7400
0173		M,A,DS	A,U	A,	B,4311
0174		M,A,DS	A,Q	A,	B,5201
0175		M,A,MX	A,V	A,	B,4131
0176		M,A,DT	A,CB	A,	B,6456
0177		M,A,DT	A,CF	A,	B,6452
0178		OCT	0		

0180	CODES 10	M,A,MP	A,	A,	B,7420
0181		M,A,DM	A,P	A,	B,4351
0182		M,A,DM	A,PR	A,	B,4201
0183		M,A,DO	A,T	A,	B,4261
0184		M,A,UN	A,IT	A,	B,5241
0185		M,A,DL	A,OA	A,D	B,4061
0186		M,A,DO	A,UB	A,LE	B,7002
01861		M,A,MM	A,	A,	B,5740
01862		M,A,DN	A,CH	A,AN	B2 DNCHAN
01863		M,A,DN	A,PT	A,R	B2 DNPTR
0187		OCT	0		

0188	CODES 21	M,A,AD	A,	A,	B,7000
0189		M,A,AD	A,S	A,	B,5310
0190		M,A,AD	A,RE	A,S	B,4340
0191	ECADR COD	M,A,EC	A,AD	A,R	B,4360
0192		M,A,EB	A,AN	A,K=	BL2 EBANK
0193		M,A,RE	A,MA	A,DR	B,4344
0194		M,A,VA	A,D	A,	B,4231
0195		M,A,AC	A,OS	A,	B,5171
0196		M,A,AB	A,S	A,	B,5251
0197		M,A,AB	A,VA	A,L	B,5331
0198		M,A,VD	A,EF	A,	B,5231
0199		M,A,VC	A,OM	A,P	B,5321
0200		M,A,RE	A,AD	A,	B,4034
0201		M,A,RA	A,ND	A,	B,4134
0202		M,A,RE	A,LI	A,NT	B,4016
02021		M,A,1D	A,NA	A,DR	B,4360
02022		M,A,5D	A,NA	A,DR	B2 5DNADR
0203		M,A,RE	A,SU	A,ME	B,6442
0204		M,A,RE	A,TU	A,RN	B,4012
0205		M,A,ED	A,RU	A,PT	B,4272
0206		M,A,ND	A,X	A,	B,6450
0207		OCT	0		

0208	CODES 20	M,A,	A,	A,	B,4754
0209		OCT	0		

B239000

P0210 BLK2 OPERATION CODE TABLES CONTINUED. PLEASE IGNORE THE BANK ERRORS.

0211	CODES 31	M,A,EX	A,TE	A,ND	B,4132
0212		M,A,AU	A,G	A,	B,5230
0213		M,A,AX	A,T,	A,1	B,4451
0214		M,A,AX	A,T,	A,2	B,4451
0215		M,A,AX	A,C,	A,1	B,4461
0216		M,A,AX	A,C,	A,2	B,4461
0217		M,A,VX	A,M	A,	B,4161
0218		M,A,VS	A,U	A,	B,4241
0219		M,A,VS	A,L	A,	B,4431
0220		M,A,VS	A,R	A,	B,4441
0221		M,A,VX	A,SC	A,	B,4031
0222		M,A,V/	A,SC	A,	B,4071
0223		M,A,VX	A,V	A,	B,4271
0224		M,A,RT	A,B	A,	B,4651
0225		M,A,VS	A,Q	A,	B,5261
0226		M,A,AS	A,IN	A,	B,5161
0227		M,A,EX	A,IT	A,	B,5121
0228		M,A,VS	A,L1	A,	B,5601
0229		M,A,VS	A,R1	A,	B,5611
0230		M,A,VS	A,L2	A,	B,5621
0231		M,A,VS	A,R2	A,	B,5631
0232		M,A,VS	A,L3	A,	B,5641
0233		M,A,VS	A,R3	A,	B,5651
0234		M,A,VS	A,L4	A,	B,5661
0235		M,A,VS	A,R4	A,	B,5671
0236		M,A,VS	A,L5	A,	B,5701
0237		M,A,VS	A,R5	A,	B,5711
0238		M,A,VS	A,L6	A,	B,5721
0239		M,A,VS	A,R6	A,	B,5731
0240		M,A,VS	A,L7	A,	B,5741
0241		M,A,VS	A,R7	A,	B,5751
0242		M,A,VS	A,L8	A,	B,5761
0243		M,A,VS	A,R8	A,	B,5771
0244		M,A,IT	A,A	A,	B,4641
0245		M,A,IT	A,CQ	A,	B,5301
0246		M,A,RX	A,OR	A,	B,4334
02462		M,A,NV	A,	A,	B,5744
0247		M,A,EV	A,EN	A,	EVEN
0248		M,A,IS	A,	A,	IS EQUALS
02485		M,A,RV	A,Q	A,	B,5301
0249		OCT	0		

P0250 BLK2 OPERATION CODE TABLES CONTINUED. PLEASE IGNORE THE BANK ERRORS.

0251	CODES 30	M,A,IN	A,DE	A,X	B,6450
0252		M,A,EQ	A,UA	A,LS	IS EQUALS
0253		M,A,ER	A,AS	A,E	ERASE
0254		M,A,IN	A,HI	A,NT	B,4022
0255		M,A,IN	A,CR	A,	B,5210
0256		M,A,VL	A,OA	A,D	B,4001
0257		M,A,VP	A,RO	A,J	B,4301
0258		M,A,IN	A,CR	A,,1	B,4531
0259		M,A,IN	A,CR	A,,2	B,4531
0260		M,A,NO	A,RM	A,	B,4171
02608		M,A,IN	A,V	A,	B,5011
0261		M,A,IN	A,VE	A,RT	B,5011
0262		M,A,IN	A,VG	A,O	B,4771
0264		M,A,RO	A,UN	A,D	B,5211
0265		M,A,AR	A,CS	A,IN	B,5161
0266		M,A,AR	A,CC	A,OS	B,5171
0267		M,A,ZL	A,	A,	B,5052
0268		M,A,ZQ	A,	A,	B,5252
0269		M,A,RO	A,R	A,	B,4234
02692		M,A,VN	A,	A,	B,5744
0270		M,A,NO	A,OP	A,	B,4402
0271		OCT	O		

P0272 BLK2 OPERATION CODE TABLES CONTINUED. PLEASE IGNORE THE BANK ERRORS.

0273	CODES 41	M,A,OC	A,T	A,	OCTAL
0274		M,A,2D	A,EC	A,	2DECIMAL
0275		M,A,SE	A,TL	A,OC	SETLOC
0276		M,A,BA	A,NK	A,	BLK2 BANK
0277		M,A,2B	A,CA	A,DR	B2 2BCADR
0278		M,A,2C	A,AD	A,R	B2 2BCADR
0279		M,A,2F	A,CA	A,DR	B2 2FCADR
0280		M,A,BB	A,CO	A,N	B,4364
0281		M,A,FC	A,AD	A,R	B,4350
0282		M,A,BD	A,SU	A,	B,4321
0283		M,A,BD	A,DV	A,	B,4221
0284		M,A,SI	A,GN	A,	B,4021
0285		M,A,SE	A,TP	A,D	B,4361
0286		M,A,SE	A,T	A,	B,4751
0287		M,A,SE	A,TG	A,O	B,4731
0288		M,A,BH	A,IZ	A,	B,4661
0289		M,A,SI	A,N	A,	B,5141
0290		M,A,SI	A,NE	A,	B,5141
0291		M,A,WA	A,ND	A,	B,4174
0292		M,A,OC	A,TA	A,L	OCTAL
02925		M,A,SB	A,AN	A,K=	BL2 SBANK
02926		M,A,2D	A,NA	A,DR	B2 2DNADR
02927		M,A,6D	A,NA	A,DR	B2 6DNADR
02929 *		M,A,SE	A,GN	A,UM	LATE MEM
0293		OCT	0		
0294	CODES 51	M,A,SU	A,	A,	B,7030
0295		M,A,BZ	A,F	A,	B,4424
0296		M,A,BZ	A,MF	A,	B,7024
0297		M,A,BV	A,SU	A,	B,4251
0298		M,A,SS	A,P	A,	B,4111
0299		M,A,BZ	A,E	A,	B,4571
0300		M,A,ST	A,OR	A,E	B,4760
0301		M,A,ST	A,OD	A,L	B,4764
0302		M,A,ST	A,OV	A,L	B,4770
0303		M,A,ST	A,CA	A,LL	B,4774
0304		M,A,SX	A,A,	A,1	B,4511
0305		M,A,SX	A,A,	A,2	B,4511
0306		M,A,ST	A,AD	A,R	B,5271
0307		M,A,ST	A,Q	A,	B,4641
0308		M,A,SU	A,BR	A,O	SJBRO
0309		M,A,OV	A,SK	A,	B,6462
0310		OCT	0		

P0311 BLK2 OPERATION CODE TABLES CONTINUED. PLEASE IGNORE THE BANK ERRORS.

0312	CODES 50	M,A,WR	A,IT	A,E	B,4074
0313		M,A,BP	A,L	A,	B,4611
0314		M,A,BM	A,N	A,	B,4621
0315		M,A,BO	A,V	A,	B,4711
03151		M,A,BO	A,VB	A,	B,4701
0316		M,A,SQ	A,RT	A,	B,5131
0317		M,A,SL	A,OA	A,D	B,4101
0318		M,A,SL	A,C	A,	B,4171
0319		M,A,SL	A,	A,	B,4371
0320		M,A,SR	A,	A,	B,4401
0321		M,A,SL	A,R	A,	B,4411
0322		M,A,SR	A,R	A,	B,4421
0323		M,A,BO	A,NS	A,ET	B,4721
0324		M,A,BO	A,FS	A,ET	B,4741
0325		M,A,BO	A,NI	A,NV	B,4761
0326		M,A,BO	A,FI	A,NV	B,5001
0327		M,A,BO	A,NC	A,LR	B,5021
0328		M,A,BO	A,FC	A,LR	B,5041
0329		M,A,BO	A,N	A,	B,5061
03298		M,A,BO	A,F	A,	B,5101
0330		M,A,BO	A,FF	A,	B,5101
0331		M,A,SL	A,1R	A,	B,5401
0332		M,A,SR	A,1R	A,	B,5411
0333		M,A,SL	A,1	A,	B,5421
0334		M,A,SR	A,1	A,	B,5431
0335		M,A,SL	A,2R	A,	B,5441
0336		M,A,SR	A,2R	A,	B,5451
0337		M,A,SL	A,2	A,	B,5461
0338		M,A,SR	A,2	A,	B,5471
0339		M,A,SL	A,3R	A,	B,5501
0340		M,A,SR	A,3R	A,	B,5511
0341		M,A,SL	A,3	A,	B,5521
0342		M,A,SR	A,3	A,	B,5531
0343		M,A,SL	A,4R	A,	B,5541
0344		M,A,SR	A,4R	A,	B,5551
0345		M,A,SL	A,4	A,	B,5561
0346		M,A,SR	A,4	A,	B,5571
0347		M,A,WO	A,R	A,	B,4274
0348		M,A,BL	A,OC	A,K	BLK2 BLCK
03482		M,A,BN	A,KS	A,JM	BL2 BNKSM
0349		M,A,SQ	A,UA	A,RE	B,7602
0350		M,A,20	A,CT	A,	2OCTAL
0351		M,A,20	A,CT	A,AL	2OCTAL
0352		OCT	0		

P0353 BLK2 OPERATION CODE TABLES CONTINUED. PLEASE IGNORE THE BANK ERRORS.

0354	CODES 61	M,A,TC	A,F	A,	B,4404
0355		M,A,CA	A,	A,	B,5400
0356		M,A,XC	A,H	A,	B,6710
0357		M,A,CC	A,S	A,	B,4410
0358		M,A,CA	A,F	A,	B,5404
0359		M,A,TC	A,	A,	B,4000
0360		M,A,CA	A,E	A,	B,5410
0361		M,A,PD	A,DL	A,	B,4121
0362		M,A,PD	A,VL	A,	B,4141
0363		M,A,CA	A,LL	A,	B,4631
03631		M,A,CA	A,LR	A,B	B,5071
0364		M,A,XC	A,HX	A,,1	B,4521
0365		M,A,XC	A,HX	A,,2	B,4521
0366		M,A,XA	A,D,	A,1	B,4551
0367		M,A,XA	A,D,	A,2	B,4551
0368		M,A,TI	A,X,	A,1	B,4541
0369		M,A,TI	A,X,	A,2	B,4541
0370		M,A,TA	A,D	A,	B,4011
0371		M,A,CG	A,OT	A,O	B,4041
0372		M,A,CC	A,AL	A,L	B,4151
03721		M,A,CC	A,LR	A,B	B,5111
0373		M,A,TC	A,R	A,	B,4000
0374		M,A,TC	A,AA	A,	B,6466
0375		M,A,CA	A,DR	A,	B,4350
0376		M,A,GE	A,NA	A,DR	B,4354
03761		M,A,3D	A,NA	A,DR	B2 3DNADR
0377		M,A,TA	A,IL	A,	HEAD TAIL
0378		OCT	0		
0379	CODES 60	M,A,=	A,	A,	IS EQUALS
0380		M,A,P	A,	A,	B,4754
0381		OCT	0		

P0382 BLK2 OPERATION CODE TABLES CONCLUDED. PLEASE IGNORE THE BANK ERRORS.

0383	CODES 71	M,A,CS	A,	A,	B,6000
0384		M,A,TS	A,	A,	B,6610
0385		M,A,LX	A,CH	A,	B,5110
0386		M,A,LX	A,A,	A,1	B,4471
0387		M,A,LX	A,A,	A,2	B,4471
0388		M,A,LX	A,C,	A,1	B,4501
0389		M,A,LX	A,C,	A,2	B,4501
0390		M,A,PU	A,SH	A,	B,5311
0391		M,A,XS	A,U,	A,1	B,4561
0392		M,A,XS	A,U,	A,2	B,4561
0393		M,A,XX	A,AL	A,0	B,4002
0394		OCT	0		
0395	CODES 70	M,A,CO	A,M	A,	B,6002
0396		M,A,GO	A,TO	A,	B,4601
03962		M,A,GO	B,1563	A,0	B,4601
03966		M,A,CL	A,R	A,	B,5051
0397		M,A,CL	A,EA	A,R	B,5051
0398		M,A,CO	A,S	A,	B,5151
0399		M,A,CO	A,SI	A,NE	B,5151
0400		M,A,TL	A,OA	A,D	B,4051
0401		M,A,CL	A,RG	A,0	B,5031
0402		M,A,XL	A,Q	A,	B,4006
04025		M,A,CO	A,UN	A,T	COUNT
0403		M,A,LO	A,C	A,	SETLOC
04031		M,A,=P	A,LU	A,S	EQU PLUS
04032		M,A,=M	A,IN	A,JS	EQU MINJS
0404		OCT	0		