

7030 DPS

SMFF -1C
File No. JB AF1C

SMFF-1C

FLT. PT. PROGRAM

JB AF1C

April 15, 1961

1. Programs becoming obsolete: JBAF1C
2. Used to provide a test of the Central Processor PAU

TABLE OF CONTENTS

	Page
1. Purpose	1
2. Equipment Requirements	2
3. Operating Procedures	3
4. Program Philosophy	4

1. PURPOSE

This program is intended to test the PAU and associated control circuitry using FLOAT POINT instructions.

2. EQUIPMENT REQUIREMENTS

N - Necessary for Basic Testing
A - Additional Requirements for Full Testing

2.1 Testing Requirements

0-8K	8K-16K	16K-32K	32K-Above	Ops Console	Card Reader
N	N				N

Punch	Printer	Disc	Tapes		

2.2 Buffer Equipment Requirements

Disc	Tapes

3. MODE OF CONTROL

Self	<input type="checkbox"/>	SSIP	<input checked="" type="checkbox"/>
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3. OPERATING PROCEDURES

- 3.1. This program must be run under SSIP program control.
- 3.2. Loading Procedures (PUNFUL Cards)
 - 3.2.1. At the Maintenance Console
 - a) Master Reset
 - b) Start Clock
 - c) IPL
 - d) Activate the following:
 - 1) Maintenance Mode
 - 2) Time Clock disable
 - 3) Interrupt disable
 - 3.2.2. Place program deck in card reader.
 - 3.2.3. Press Start on card reader
 - 3.2.4. If out of material comes on at reader and program is not running, set Maintenance Switches to 052000. 10 00 000 000. 00. 00
 - 3.2.5. Press Enter Instruction, Single OP, and Program Start
- 3.3. Error Indications

The program operates under Sense Switch Interrogation Program (SSIP) control, all error indication options of the SSIP Program apply to this program. Refer to the SSIP Program writeup.
- 3.4. Success Indications

All success indication options of the SSIP Program apply to this program. Refer to the SSIP Program writeup.
- 3.5. Operation Options

Refer to the SSIP Program writeup for all operation options.

4. PROGRAM PHILOSOPHY

This program is designed to test FLT. PT. instructions and associated PAU circuitry under control of SSIP. Listed below are all routines and a brief description of what they test.

LIST OF TEST ROUTINES

<u>Routine Number</u>	<u>Routine Name</u>
F200	Floating Point Load
F201	Floating Point Add
F202	Floating Point Compare
F203	Floating Point Store
F204	Floating Point Add to Memory
F205	Floating Point Add to Magnitude
F206	Floating Point Add Mag to Memory
F207	Floating Point Add Double
F208	Floating Point Add Double
F209	Floating Point Add Double to Mag
F210	Floating Point Store Rounded
F211	Floating Point Store Low Order
F212	Floating Point Shift Fraction
F212X	Floating Point Add to Fraction
F213	Floating Point Add to Exponent
F213X	Floating Point Add Immediate to Exp.
F214	Floating Point Multiply
F214X	Floating Point Multiply Double
F215	Floating Point Load Factor
F216	Floating Point Multiply & Add
217	Floating Point Divide
217X	Floating Point Reciprocal Divide
F217W	Floating Point Divide Double
F218	Floating Point Store Root
F219	Floating Point Noisy Mode

Random MULTIPLY
Random SSQ

SS 46
SS 47 (will get error)

SLC,100.0

000144.00

PUNID,AB-KGN

AB-KGN

END,100.0

144.00

000144.00

PRINID, JB AF1C SMFF-1C KGN 6-25-61

PUNFUL

PRNS,

SEM,6

SLC,%8=7777.0

CW%CDSC=,SMFF1,END-SMFF1+2.0,0

SMFF1

BD,\$+.32

Z,3.0

-CLEAR PASS COUNTER

Z,0.0

10000.00	60	443020.00	00	007777.00
10000.44	00			007777.00
3.22	00			010000.00
0.22	00			010000.40
				010001.00

----F200 ---LOAD TEST ROUTINE

---F200A---ARITHMETIC CHECKS

FL1	BD,\$+.32			10002.04	00				010001.40
SMFF	L%BU, F200	-UPDATE IDENTITY		21747.00	80	000000.20	50		010002.00
	ST%BU, DPET13			1437.00	80	000000.20	D0		010003.00
	SIC, RET1			1306.40	80				010004.00
	B, IDF1			1443.10	00				010004.40
	Z, \$IND			13.22	00				010005.00
SAP1	C1111%BU, 64, FPK1, 64	- ALL ONES TO L ACC	F200A1	22006.00	80	000040.36	70		010005.40
	C1111%BU, 64, FPK1	-RIGHT ACC. CONTAINS ONES		22006.00	80	000000.36	70		010006.40
	CM1111%BU, 64, 10.0	-\$SB ALL ONES		12.00	80	000000.36	F0		010007.40
	L%U, FPK0	-LOAD ZERO OPERAND F200A1A		22005.40	60				010010.40
	CT1010%BU, 64, \$R	-DOES \$R REMAIN UNCHANGED		11.00	80	000000.25	70		010011.00
	SIC, SEN			1310.00	80				010012.00
	BRGZ, SERS			1304.35	42				010012.40
	CT1100%BU, 4, 8.60	- DO BITS 60-63 REMAIN UNCHD		10.74	80	004000.31	70		010013.00
	SIC, SEN			1310.00	80				010014.00
	BRGZ, SERS			1304.35	42				010014.40
	CT1100%BU, 4, \$SB	-DO \$SB ZONE BITS REMAIN UNCHANGED F200A1C		12.00	80	004000.31	70		010015.00
	SIC, SEN			1310.00	80				010016.00
	BRGZ, SERS			1304.35	42				010016.40
	CT0011%BU, 60, \$L	-WAS ALL ZEROS FIELD LOADED CORRECTLY F200A1D		10.00	80	074000.07	70		010017.00
	SIC, SEN			1310.00	80				010020.00
	BRGZ, SERS			1304.35	42				010020.40
	Z, \$L		F200A2	10.22	00				010021.00
	Z, \$R	-CLEARS RIGHT ACC.		11.22	00				010021.40
	Z, \$SB	-CLEARS SIGN BYTE REG.		12.22	00				010022.00
	L%U, FPK1	-LOAD ONES F200A2A		22006.40	60				010022.40
	CT0101%BU, 64, \$R	-DOES \$R REMAIN UNCHANGED		11.00	80	000000.13	70		010023.00
	SIC, SEN			1310.00	80				010024.00
	BRGZ, SERS			1304.35	42				010024.40
	CT0011%BU, 4, 8.60	-DO BITS 60-63 REMAIN UNCHANGED F200A2B		10.74	80	004000.07	70		010025.00
	SIC, SEN			1310.00	80				010026.00
	BRGZ, SERS			1304.35	42				010026.40
	CT0011%BU, 4, \$SB	-DO \$SB ZONE BITS REMAIN UNCHANGED F200A2C		12.00	80	004000.07	70		010027.00
	SIC, SEN			1310.00	80				010030.00
	BRGZ, SERS			1304.35	42				010030.40
	CT1100%BU, 60, \$L	-WAS ALL ONES FIELD LOADED CORRECTLY F200A2D		10.00	80	074000.31	70		010031.00
	SIC, SEN			1310.00	80				010032.00
	BRGZ, SERS			1304.35	42				010032.40
			F200A3						
	C1111%BU, 64, FPK1, 64			22006.00	80	000040.36	70		010033.00
	L%U, \$L	-LOAD ONES FROM L TO L F200A3A		10.40	60				010034.00
	CT1100%BU, 4, 8.60	-DO BITS 60-63 REMAIN UNCHANGED		10.74	80	004000.31	70		010034.40
	SIC, SEN			1310.00	80				010035.40
	BRGZ, SERS			1304.35	42				010036.00
	CT1100%BU, 60, \$L	-WAS ALL ONES FIELD LOADED CORRECTLY F200A3B		10.00	80	074000.31	70		010036.40
	SIC, SEN			1310.00	80				010037.40
	BRGZ, SERS			1304.35	42				010040.00
	Z, \$L		F200A4	10.22	00				010040.40
	L%BU, FPK1	-RIGHT ACC. CONTAINS ONES		22006.00	80	000000.20	50		010041.00
	L%U, \$R	-LOAD ONES FROM R TO L F200A4A		11.40	60				010042.00
	CT0011%BU, 4, 8.60	-DO BITS 60-63 REMAIN UNCHANGED		10.74	80	004000.07	70		010042.40
	SIC, SEN			1310.00	80				010043.40
	BRGZ, SERS			1304.35	42				010044.00
	CT1100%BU, 60, \$L	-WAS ALL ONES FIELD LOADED CORRECTLY F200A4B		10.00	80	074000.31	70		010044.40
	SIC, SEN			1310.00	80				010045.40
	BRGZ, SERS			1304.35	42				010046.00
	BD, \$+1.0			10047.44	00				010046.40
	B, FL1			10001.50	00				010047.00
	SIC, SEN +.32			1311.40	80				010047.40

-----F200B-----TEST SIGN + MOD COMBS
 -THE FOLLOWING PROGRAMS EACH HAVE A CODE MS,ACS,N AND A
 -MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS

SAP1A	BD,\$+.32				10051.04	00			010050.40
	Z,\$L	- MS+ACS+N+A+0		F200B1	10.22	00			010051.00
	Z,\$SB				12.22	00			010051.40
	L%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN POSITIVE				22007.40	60			010052.00
	CT1100%BU,60□,\$L-WAS ALL ONES FIELD LOADED CORRECTLY				10.00	80	074000.31	70	010052.40
	SIC,SEN				1310.00	80			010053.40
	BRGZ,SERS				1304.35	42			010054.00
	CT0011%BU,8□,\$SB-DOES \$SB CONTAIN ZEROS				12.00	80	010000.07	70	010054.40
	SIC,SEN				1310.00	80			010055.40
	BRGZ,SERS				1304.35	42			010056.00
	Z,\$L	- MS+ACS+N+0	A+1	F200B2	10.22	00			010056.40
	Z,\$SB				12.22	00			010057.00
	LA%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN POSITIVE				22007.60	60			010057.40
	CT1100%BU,60□,\$L-WAS ONES OP. LOADED CORRECTLY				10.00	80	074000.31	70	010060.00
	SIC,SEN				1310.00	80			010061.00
	BRGZ,SERS				1304.35	42			010061.40
	CT0011%BU,8□,\$SB-DOES \$SB CONTAIN ZEROS				12.00	80	010000.07	70	010062.00
	SIC,SEN				1310.00	80			010063.00
	BRGZ,SERS				1304.35	42			010063.40
	Z,\$L	- MS+ACS+A+0	N+1	F200B3	10.22	00			010064.00
	Z,\$SB				12.22	00			010064.40
	LN%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN NEGATIVE				22007.50	60			010065.00
	CT1100%BU,60□,\$L				10.00	80	074000.31	70	010065.40
	SIC,SEN				1310.00	80			010066.40
	BRGZ,SERS				1304.35	42			010067.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010071.74	02	010067.40
	SIC,SEN				1310.00	80			010070.40
	B,SERS				1304.10	00			010071.00
	Z,\$L	- MS+ACS+0	N+A+1	F200B4	10.22	00			010071.40
	Z,\$SB				12.22	00			010072.00
	LNA%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN NEGATIVE				22007.70	60			010072.40
	CT1100%BU,60□,\$L				10.00	80	074000.31	70	010073.00
	SIC,SEN				1310.00	80			010074.00
	BRGZ,SERS				1304.35	42			010074.40
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010077.34	02	010075.00
	SIC,SEN				1310.00	80			010076.00
	B,SERS				1304.10	00			010076.40
	Z,\$L	- MS+N+A+0	ACS+1	F200B5	10.22	00			010077.00
	BB1,\$SB+ .4,\$+1.-SETS SIGN BIT OF \$SB TO ONE				12.04	80	010100.74	0E	010077.40
	L%U□,FPK2-LOADS ONES OP. WITH EFFECTIVE SIGN POSITIVE				22007.40	60			010100.40
	CT1100%BU,60□,\$L-CHECK FOR CORRECT LOAD				10.00	80	074000.31	70	010101.00
	SIC,SEN				1310.00	80			010102.00
	BRGZ,SERS				1304.35	42			010102.40
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010105.34	00	010103.00
	SIC,SEN				1310.00	80			010104.00
	B,SERS				1304.10	00			010104.40
	Z,\$L	- MS+N+0	ACS+A+1	F200B6	10.22	00			010105.00
	BB1,\$SB+ .4,\$+1.-SETS SIGN BIT OF \$SB TO ONE				12.04	80	010106.74	0E	010105.40
	LA%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN POS.				22007.60	60			010106.40
	CT1100%BU,60□,\$L-CHECK FOR CORRECT LOAD				10.00	80	074000.31	70	010107.00
	SIC,SEN				1310.00	80			010110.00
	BRGZ,SERS				1304.35	42			010110.40
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010113.34	00	010111.00
	SIC,SEN				1310.00	80			010112.00
	B,SERS				1304.10	00			010112.40

Z,\$L	- MS+A+0	ACS+N+1	F200B7	10.22	00		010113.00
BB1,\$SB+.4,\$+1.-SETS SIGN BIT OF SSB TO ONE				12.04	80	010114.74 0E	010113.40
LN%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN NEG.				22007.50	60		010114.40
CT1100%BU,60□,\$L-CHECK FOR CORRECT LOAD				10.00	80	074000.31 70	010115.00
SIC,SEN				1310.00	80		010116.00
BRGZ,SERS				1304.35	42		010116.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010121.34 02	010117.00
SIC,SEN				1310.00	80		010120.00
B,SERS				1304.10	00		010120.40
Z,\$L	- MS+0	ACS+N+A+1	F200B8	10.22	00		010121.00
BB1,\$SB+.4,\$+1.-SETS SIGN BIT OF SSB TO ONE				12.04	80	010122.74 0E	010121.40
LNA%U□,FPK2-LOADS OP. WITH EFFECTIVE SIGN NEG.				22007.70	60		010122.40
CT1100%BU,60□,\$L-CHECK FOR CORRECT LOAD				10.00	80	074000.31 70	010123.00
SIC,SEN				1310.00	80		010124.00
BRGZ,SERS				1304.35	42		010124.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010127.34 02	010125.00
SIC,SEN				1310.00	80		010126.00
B,SERS				1304.10	00		010126.40
Z,\$L	- MS+1	ACS+N+A+0	F200B9	10.22	00		010127.00
Z,\$SB				12.22	00		010127.40
L%U□,FPK1-LOADS OP. WITH EFFECTIVE SIGN NEG.				22006.40	60		010130.00
CT1100%BU,60□,\$L-CHECK FOR CORRECT LOAD				10.00	80	074000.31 70	010130.40
SIC,SEN				1310.00	80		010131.40
BRGZ,SERS				1304.35	42		010132.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010134.74 02	010132.40
SIC,SEN				1310.00	80		010133.40
B,SERS				1304.10	00		010134.00
Z,\$L	- MS+A+1	ACS+N+0	F200B10	10.22	00		010134.40
Z,\$SB				12.22	00		010135.00
→ LA%U□,FPK1-LOADS OP. WITH EFFECTIVE SIGN POS.				22006.60	60		010135.40
CT1100%BU,60□,\$L-CHECK FOR CORRECT LOAD				10.00	80	074000.31 70	010136.00
SIC,SEN				1310.00	80		010137.00
BRGZ,SERS				1304.35	42		010137.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010142.34 00	010140.00
SIC,SEN				1310.00	80		010141.00
B,SERS				1304.10	00		010141.40
Z,\$L	- MS+N+1	ACS+A+0	F200B11	10.22	00		010142.00
Z,\$SB				12.22	00		010142.40
LN%U□,FPK1-LOAD OP. WITH EFFECTIVE SIGN POS.				22006.50	60		010143.00
CT1100%BU,60□,\$L				10.00	80	074000.31 70	010143.40
SIC,SEN				1310.00	80		010144.40
BRGZ,SERS				1304.35	42		010145.00
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010147.74 00	010145.40
SIC,SEN				1310.00	80		010146.40
B,SERS				1304.10	00		010147.00
Z,\$L	- MS+N+A+1	ACS+0	F200B12	10.22	00		010147.40
Z,\$SB				12.22	00		010150.00
LNA%U□,FPK1-LOAD OP. WITH EFFECTIVE SIGN NEG.				22006.70	60		010150.40
CT1100%BU,60□,\$L				10.00	80	074000.31 70	010151.00
SIC,SEN				1310.00	80		010152.00
BRGZ,SERS				1304.35	42		010152.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010155.34 02	010153.00
SIC,SEN				1310.00	80		010154.00
B,SERS				1304.10	00		010154.40

Z,\$L	- MS+ACS+1	N+A+0	F200B13	10.22	00		010155.00
BB1,\$SB+.4,\$+1.-	SETS SIGN BIT OF \$SB TO ONE			12.04	80	010156.74 0E	010155.40
L%U#	FPK1-LOADS OP. WITH EFFECTIVE SIGN NEG.			22006.40	60		010156.40
CT1100%BU,60#,\$L				10.00	80	074000.31 70	010157.00
SIC,SEN				1310.00	80		010160.00
	BRGZ,SERS			1304.35	42		010160.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010163.34 02	010161.00
SIC,SEN				1310.00	80		010162.00
	B,SERS			1304.10	00		010162.40
Z,\$L	- MS+ACS+A+1	N+0	F200B14	10.22	00		010163.00
BB1,\$SB+.4,\$+1.-	SETS SIGN BIT OF \$SB TO ONE			12.04	80	010164.74 0E	010163.40
LA%U#	FPK1-LOADS OP. WITH EFFECTIVE SIGN POS.			22006.60	60		010164.40
CT1100%BU,60#,\$L				10.00	80	074000.31 70	010165.00
SIC,SEN				1310.00	80		010166.00
	BRGZ,SERS			1304.35	42		010166.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010171.34 00	010167.00
SIC,SEN				1310.00	80		010170.00
	B,SERS			1304.10	00		010170.40
Z,\$L	- MS+ACS+N+1	A+0	F200B15	10.22	00		010171.00
BB1,\$SB+.4,\$+1.-	SETS SIGN BIT OF \$SB TO ONE			12.04	80	010172.74 0E	010171.40
LN%U#	FPK1-LOADS OPND WITH EFFECTIVE SIGN POS.			22006.50	60		010172.40
CT1100%BU,60#,\$L				10.00	80	074000.31 70	010173.00
SIC,SEN				1310.00	80		010174.00
	BRGZ,SERS			1304.35	42		010174.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010177.34 00	010175.00
SIC,SEN				1310.00	80		010176.00
	B,SERS			1304.10	00		010176.40
Z,\$L	- MS+ACS+N+A+1		F200B16	10.22	00		010177.00
BB1,\$SB+.4,\$+1.-	SETS SIGN BIT OF \$SB TO ONE			12.04	80	010200.74 0E	010177.40
LNA%U#	FPK1-LOADS OP. WITH EFFECTIVE SIGN NEG.			22006.70	60		010200.40
CT1100%BU,60#,\$L				10.00	80	074000.31 70	010201.00
SIC,SEN				1310.00	80		010202.00
	BRGZ,SERS			1304.35	42		010202.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010205.34 02	010203.00
SIC,SEN				1310.00	80		010204.00
	B,SERS			1304.10	00		010204.40

----F200C----TEST CLEARED REGISTERS.

Z,10.0	- SB 5-7	0 S TO 0 S	F200C1	12.22	00		010205.00
L%U#	FPK1-KEEPS FLAG BITS OF \$SB AT ZERO			22006.40	60		010205.40
CT0011%BU,3#,10.5-	CHECK FLAG BITS FOR ZERO			12.05	80	003000.07 70	010206.00
SIC,SEN				1310.00	80		010207.00
	BRGZ,SERS			1304.35	42		010207.40
CM1111%BU,8#,\$SB	- SB ALL ONES		F200C2	12.00	80	010000.36 F0	010210.00
L%U#	FPK1-SETS FLAG BITS OF SB TO ZERO			22006.40	60		010211.00
CT0011%BU,3#,10.5-	ARE FLAG BITS ZEROS			12.05	80	003000.07 70	010211.40
SIC,SEN				1310.00	80		010212.40
	BRGZ,SERS			1304.35	42		010213.00
BD,\$+1.0				10214.44	00		010213.40
	B,SAP1A			10050.50	00		010214.00
SIC,SEN0+.32				1311.40	80		010214.40
	B,SSW			1301.10	00		010215.00
	-TO SSIP						

----F200D----LOAD NORM,AND NORM.PROCESS.

SAP1B	BD,\$+.32		10216.04	00		010215.40
	Z,\$L	F200D1	10.22	00		010216.00
	L%BU,64,8,FPK1-RIGHT ACC. CONTAINS ONES		22006.00	80	000000.20 50	010216.40
	L%N,FPK0		22005.00	60		010217.40
	CT0011%BU,48,8.12-DOES FRACTION REMAIN ALL ZEROS		10.14	80	060000.07 70	010220.00
	SIC,SEN		1310.00	80		010221.00
	BRGZ,SERS		1304.35	42		010221.40
	CT0011%BU,11,8.0-DOES ACC. EXPONENT REMAIN ALL ZEROS		10.00	80	013000.07 70	010222.00
	SIC,SEN		1310.00	80		010223.00
	BRGZ,SERS		1304.35	42		010223.40
	Z,\$L	-F200D2	10.22	00		010224.00
	L%BU,FPK1-RIGHT ACC. CONTAINS ALL ONES		22006.00	80	000000.20 50	010224.40
	L%N,FPK3		22010.00	60		010225.40
	CT0110%BU,FPK3,64-CHECK LEFT ACC.		22010.00	80	000040.15 70	010226.00
	SIC,SEN		1310.00	80		010227.00
	BRGZ,SERS		1304.35	42		010227.40
	Z,\$L	-F200D3	10.22	00		010230.00
	L%BU,FPK1-RIGHT ACC. CONTAINS ONES		22006.00	80	000000.20 50	010230.40
	L%N,FPK4		22011.00	60		010231.40
	CT0110%BU,FPK3,64-CHECKS \$L AFTER NORMALIZATION		22010.00	80	000040.15 70	010232.00
	SIC,SEN		1310.00	80		010233.00
	BRGZ,SERS		1304.35	42		010233.40
	Z,\$L	-F200D4	10.22	00		010234.00
	L%BU,FPK1-RIGHT ACC. CONTAINS ONES		22006.00	80	000000.20 50	010234.40
	L%N,FPK5		22012.00	60		010235.40
	CT0110%BU,FPK6,64-CHECK \$L AFTER NORMALIZATION		22013.00	80	000040.15 70	010236.00
	SIC,SEN		1310.00	80		010237.00
	BRGZ,SERS		1304.35	42		010237.40
	Z,\$L	-F200D5	10.22	00		010240.00
	L%BU,FPK1		22006.00	80	000000.20 50	010240.40
	L%N,FPK7		22014.00	60		010241.40
	CT0110%BU,FPK6,64-CHECK \$L AFTER NORMALIZATION		22013.00	80	000040.15 70	010242.00
	SIC,SEN		1310.00	80		010243.00
	BRGZ,SERS		1304.35	42		010243.40
	Z,\$L	-F200D6	10.22	00		010244.00
	L%BU,FPK1		22006.00	80	000000.20 50	010244.40
	L%N,FPK8		22015.00	60		010245.40
	CT0110%BU,FPK9,64-CHECK \$L AFTER NORMALIZATION		22016.00	80	000040.15 70	010246.00
	SIC,SEN		1310.00	80		010247.00
	BRGZ,SERS		1304.35	42		010247.40
	Z,\$L	-F200D7	10.22	00		010250.00
	L%BU,FPK1		22006.00	80	000000.20 50	010250.40
	L%N,FPK10		22017.00	60		010251.40
	CT0110%BU,64,FPK9,64		22016.00	80	000040.15 70	010252.00
	SIC,SEN		1310.00	80		010253.00
	BRGZ,SERS		1304.35	42		010253.40
	Z,\$L	-F200D8	10.22	00		010254.00
	L%BU,FPK1		22006.00	80	000000.20 50	010254.40
	L%N,FPK11		22020.00	60		010255.40
	CT0110%BU,64,FPK12,64		22021.00	80	000040.15 70	010256.00
	SIC,SEN		1310.00	80		010257.00
	BRGZ,SERS		1304.35	42		010257.40
	Z,\$L	-F200D9	10.22	00		010260.00
	L%BU,FPK1		22006.00	80	000000.20 50	010260.40
	L%N,FPK13		22022.00	60		010261.40
	CT0110%BU,64,FPK12,64		22021.00	80	000040.15 70	010262.00
	SIC,SEN		1310.00	80		010263.00
	BRGZ,SERS		1304.35	42		010263.40
	Z,\$L	-F200D10	10.22	00		010264.00
	L%BU,FPK1		22006.00	80	000000.20 50	010264.40

L%N□, FPK14		22023.00	60		010265.40
CT0110%BU, 64□, FPK15, 64		22024.00	80	000040.15 70	010266.00
SIC, SEN		1310.00	80		010267.00
BRGZ, SERS		1304.35	42		010267.40
Z, \$L	-F200D11	10.22	00		010270.00
L%BU□, FPK1		22006.00	80	000000.20 50	010270.40
L%N□, FPK16		22025.00	60		010271.40
CT0110%BU, 64□, FPK17, 64		22026.00	80	000040.15 70	010272.00
SIC, SEN		1310.00	80		010273.00
BRGZ, SERS		1304.35	42		010273.40
BD, s+1.0		10275.04	00		010274.00
B, SAP1B		10215.50	00		010274.40
SIC, SEN0+.32		1311.40	80		010275.00
B, SSW	-TO SSIP	1301.10	00		010275.40

---F200E---NORM.MOD.IGNORED.XFP AND XFN RANGE

SAP1C	BD,\$+.32			10276.44	00			010276.00
	L%N#,FK21	-	F200E1	22167.00	60			010276.40
	CT0110%BU,60#,FK21,68			22167.00	80	074042.15	70	010277.00
	SIC,SEN			1310.00	80			010300.00
	BRGZ,SERS			1304.35	42			010300.40
	L%N#,FK27	-F200E2		22040.00	60			010301.00
	CT0110%BU,60#,FK27,68			22040.00	80	074042.15	70	010301.40
	SIC,SEN			1310.00	80			010302.40
	BRGZ,SERS			1304.35	42			010303.00

---F200F---TEST INDICATORS

	BBZ,11.28,\$+1.0	- XFPF IND	F200F1	13.34	80	010304.74	06	010303.40
	L%U#,FK21			22167.40	60			010304.40
	BB,11.28,\$+2.			13.34	80	010307.34	02	010305.00
	SIC,SEN			1310.00	80			010306.00
	B,SERS	-XFPF OFF.		1304.10	00			010306.40
	BBZ,11.30,\$+1.-XPH INDICATOR, ON CONDITION		F200F2	13.36	80	010310.34	06	010307.00
	L%U#,FK22			22170.40	60			010310.00
	BB,11.30,\$+2.			13.36	80	010312.74	02	010310.40
	SIC,SEN			1310.00	80			010311.40
	B,SERS	-XPH OFF.		1304.10	00			010312.00
	BBZ,11.31,\$+1.-XPL INDICATOR, ON CONDITION		F200F3	13.37	80	010313.74	06	010312.40
	L%U#,FK28			22041.40	60			010313.40
	BB,11.31,\$+2.			13.37	80	010316.34	02	010314.00
	SIC,SEN			1310.00	80			010315.00
	B,SERS	-XPL OFF.		1304.10	00			010315.40

---F200G---LOAD WITH FLAG

	CM1111%BU,8#,\$SB	- LOAD ZERO FLAGS	F200G1	12.00	80	010000.36	F0	010316.00
	LWF%U#,FK2-LOADS OP. WITH ZERO FLAG BITS			22007.42	60			010317.00
	CT0011%BU,3#,10.5-CHECKS FLAG BITS FOR ZEROS			12.05	80	003000.07	70	010317.40
	SIC,SEN			1310.00	80			010320.40
	BRGZ,SERS-ERROR IF FLAG BITS UNEQU4AL TO ZERO			1304.35	42			010321.00
	Z,\$SB	- LOAD ONES FLAGS	F200G2	12.22	00			010321.40
	LWF%U#,FK1-LOADS OP. WITH FLAG BITS SET TO ONES			22006.42	60			010322.00
	CT1100%BU,3#,10.5-CHECKS FLAG BITS FOR ONES			12.05	80	003000.31	70	010322.40
	SIC,SEN			1310.00	80			010323.40
	BRGZ,SERS			1304.35	42			010324.00
	BD,\$+1.0			10325.44	00			010324.40
	B,SAP1C			10276.10	00			010325.00
	SIC,SEN0+.32			1311.40	80			010325.40
	B,SSW	-TO SSIP		1301.10	00			010326.00

6
5

FA1	BD,S+,32		10327.04 00	010326.40
	L%BU,F201	-UPDATE IDENT.	21750.00 80 000000.20 50	010327.00
	ST%BU,DPET13		1437.00 80 000000.20 D0	010330.00
	SIC,RET1		1306.40 80	010331.00
	B,IDE1		1443.10 00	010331.40
	----F201 ---ADD TEST ROUTINE			
SAP2	Z,\$L		10.22 00	010332.00
	Z,\$R	-MEM+ACC EXP SAME F201A1	11.22 00	010332.40
	L%U,FPK4-ACC. FRACTION HAS 1 LEADING 0		22011.40 60	010333.00
	+%U,FPK19-MEM. FRACTION HAS 1 LEADING 1		22030.40 20	010333.40
	CT1100%BU,48,\$L+.12-IS RESULT FRACTION ALL ONES		10.14 80 060000.31 70	010334.00
	SIC,SEN		1310.00 80	010335.00
	BRGZ,SERS		1304.35 42	010335.40
	CT0110%BU,12,FPK4,116-CHECKS RESULTING ACC. EXPONENT		22011.00 80 014072.15 70	010336.00
	SIC,SEN		1310.00 80	010337.00
	BRGZ,SERS		1304.35 42	010337.40
	Z,\$L		10.22 00	010340.00
	Z,\$R	F201A2	11.22 00	010340.40
	L%U,FPK18-ACC. FRAC. HAS 6 LEADING 1 S		22027.40 60	010341.00
	+%U,FPK10-MEM. FRAC. HAS 5 LEADING 0 S		22017.40 20	010341.40
	CT1100%BU,48,\$L+.12-IS RESULT FRACTION ALL ONES		10.14 80 060000.31 70	010342.00
	SIC,SEN		1310.00 80	010343.00
	BRGZ,SERS		1304.35 42	010343.40
	CT0110%BU,12,FPK18,116-CHECKS RESULTING ACC. EXPONENT		22027.00 80 014072.15 70	010344.00
	SIC,SEN		1310.00 80	010345.00
	BRGZ,SERS		1304.35 42	010345.40
	Z,\$L	F201A3	10.22 00	010346.00
	Z,\$R		11.22 00	010346.40
	L%U,FPK10-ACC. FRACTION HAS 5 LEADING 0 S		22017.40 60	010347.00
	+%U,FPK18-MEM. FRACTION HAS 6 LEADING 1 S		22027.40 20	010347.40
	CT1100%BU,48,\$L+.12		10.14 80 060000.31 70	010350.00
	SIC,SEN		1310.00 80	010351.00
	BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S		1304.35 42	010351.40
	CT0110%BU,12,FPK18,116-CHECKS RESULTING ACC. EXPONENT		22027.00 80 014072.15 70	010352.00
	SIC,SEN		1310.00 80	010353.00
	BRGZ,SERS		1304.35 42	010353.40
	Z,\$L	F201A4	10.22 00	010354.00
	Z,\$R		11.22 00	010354.40
	L%U,FPK18-ACC. FRACTION HAS 6 LEADING 1 S		22027.40 60	010355.00
	+%U,FPK8-MEM. FRACTION HAS 4 LEADING 0 S		22015.40 20	010355.40
	CT1100%BU,48,\$L+.12		10.14 80 060000.31 70	010356.00
	SIC,SEN		1310.00 80	010357.00
	BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S		1304.35 42	010357.40
	CT0110%BU,12,FPK18,116-CHECKS RESULTING ACC. EXPONENT		22027.00 80 014072.15 70	010360.00
	SIC,SEN		1310.00 80	010361.00
	BRGZ,SERS		1304.35 42	010361.40
	Z,\$L	F201A5	10.22 00	010362.00
	Z,\$R		11.22 00	010362.40
	L%U,FPK8-ACC. FRACTION HAS 4 LEADING 0 S		22015.40 60	010363.00
	+%U,FPK18-MEM. FRACTION HAS 6 LEADING 1 S		22027.40 20	010363.40
	CT1100%BU,48,\$L+.12		10.14 80 060000.31 70	010364.00
	SIC,SEN		1310.00 80	010365.00
	BRGZ,SERS-ERROR IF FRACTION NOT ALL ONES		1304.35 42	010365.40
	CT0110%BU,12,FPK18,116-CHECKS RESULTING ACC. EXPONENT		22027.00 80 014072.15 70	010366.00
	SIC,SEN		1310.00 80	010367.00
	BRGZ,SERS		1304.35 42	010367.40

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Z,\$L	-	F201A6	10.22	00		010370.00	
Z,\$R			11.22	00		010370.40	
L%U□,FPK18-ACC. FRACTION HAS 6 LEADING 1 S			22027.40	60		010371.00	+4 6.5 80
+%U□,FPK7-MEM. FRACTION HAS 3 LEADING 0 S			22014.40	20		010371.40	-3 3.0 101
CT1100%BU,48□,\$L+.12			10.14	80	060000.31 70	010372.00	
SIC,SEN			1310.00	80		010373.00	
BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S			1304.35	42		010373.40	
CT0110%BU,12□,FPK18,116-CHECKS RESULTING ACC. EXPONENT			22027.00	80	014072.15 70	010374.00	
SIC,SEN			1310.00	80		010375.00	
BRGZ,SERS			1304.35	42		010375.40	
Z,\$L	-	F201A7	10.22	00		010376.00	
Z,\$R			11.22	00		010376.40	
L%U□,FPK7-ACC. FRACTION HAS 3 LEADING 0 S			22014.40	60		010377.00	
+%U□,FPK18-MEM. FRACTION HAS 6 LEADING 1 S			22027.40	20		010377.40	
CT1100%BU,48□,\$L+.12			10.14	80	060000.31 70	010400.00	
SIC,SEN			1310.00	80		010401.00	
BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S			1304.35	42		010401.40	
CT0110%BU,12□,FPK18,116-CHECKS RESULTING ACC. EXPONENT			22027.00	80	014072.15 70	010402.00	
SIC,SEN			1310.00	80		010403.00	
BRGZ,SERS			1304.35	42		010403.40	
Z,\$L	-	F201A8	10.22	00		010404.00	
Z,\$R			11.22	00		010404.40	
L%U□,FPK18-ACC. FRACTION HAS 6 LEADING 1 S			22027.40	60		010405.00	
+%U□,FPK5-MEM. FRACTION HAS 6 LEADING 1 S			22012.40	20		010405.40	
CT1100%BU,48□,\$L+.12			10.14	80	060000.31 70	010406.00	
SIC,SEN			1310.00	80		010407.00	
BRGZ,SERS-ERROR IF FRACTION NOT ALL ONES			1304.35	42		010407.40	
CT0110%BU,12□,FPK18,116-CHECKS RESULTING ACC. EXPONENT			22027.00	80	014072.15 70	010410.00	
SIC,SEN			1310.00	80		010411.00	
BRGZ,SERS			1304.35	42		010411.40	
Z,\$L	-	F201A9	10.22	00		010412.00	
Z,\$R			11.22	00		010412.40	
L%U□,FPK5-ACC. FRACTION HAS 2 LEADING 0 S			22012.40	60		010413.00	
+%U□,FPK18-MEM. FRACTION HAS 6 LEADING 1 S			22027.40	20		010413.40	
CT1100%BU,48□,\$L+.12			10.14	80	060000.31 70	010414.00	
SIC,SEN			1310.00	80		010415.00	
BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S			1304.35	42		010415.40	
CT0110%BU,12□,FPK18,116-CHECKS RESULTING ACC. EXPONENT			22027.00	80	014072.15 70	010416.00	
SIC,SEN			1310.00	80		010417.00	
BRGZ,SERS			1304.35	42		010417.40	
Z,\$L	-	F201A10	10.22	00		010420.00	
Z,\$R			11.22	00		010420.40	
L%U□,FPK18-ACC. FRACTION HAS 6 LEADING 1 S			22027.40	60		010421.00	
+%U□,FPK4-MEM. FRACTION HAS 1 LEADING 0			22011.40	20		010421.40	
CT1100%BU,48□,\$L+.12			10.14	80	060000.31 70	010422.00	
SIC,SEN			1310.00	80		010423.00	
BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S			1304.35	42		010423.40	
CT0110%BU,12□,FPK18,116-CHECKS RESULTING ACC. EXPONENT			22027.00	80	014072.15 70	010424.00	
SIC,SEN			1310.00	80		010425.00	
BRGZ,SERS			1304.35	42		010425.40	
Z,\$L	-	F201A11	10.22	00		010426.00	
Z,\$R			11.22	00		010426.40	
L%U□,FPK4-ACC. FRACTION HAS 1 LEADING 0			22011.40	60		010427.00	
+%U□,FPK18-MEM. FRACTION HAS 6 LEADING 1 S			22027.40	20		010427.40	
CT1100%BU,48□,\$L+.12			10.14	80	060000.31 70	010430.00	
SIC,SEN			1310.00	80		010431.00	
BRGZ,SERS-ERROR IF FRACTION NOT ALL 1 S			1304.35	42		010431.40	
CT0110%BU,12□,FPK18,116-CHECKS RESULTING ACC. EXPONENT			22027.00	80	014072.15 70	010432.00	
SIC,SEN			1310.00	80		010433.00	
BRGZ,SERS			1304.35	42		010433.40	
Z,\$L	-	F201A12	10.22	00		010434.00	
Z,\$R			11.22	00		010434.40	

L%U□, FPK18-ACC. FRACTION HAS 6 LEADING 1 S	22027.40	60	010435.00
+%U□, FPK3-MEM. FRACTION HAS NO LEADING 0 S	22010.40	20	010435.40
CT1100%BU, 48□, \$L+.12	10.14	80 060000.31 70	010436.00
SIC, SEN	1310.00	80	010437.00
BRGZ, SERS-ERROR IF FRACTION NOT ALL 1 S	1304.35	42	010437.40
CT0110%BU, 12□, FPK18, 116-CHECKS RESULTING ACC. EXPONENT	22027.00	80 014072.15 70	010440.00
SIC, SEN	1310.00	80	010441.00
BRGZ, SERS	1304.35	42	010441.40
Z, \$L	-	F201A13 10.22	00 010442.00
Z, \$R		11.22	00 010442.40
L%U□, FPK3-ACC. FRACTION HAS NO LEADING 0 S	22010.40	60	010443.00
+%U□, FPK18-MEM. FRACTION HAS 6 LEADING 1 S	22027.40	20	010443.40
CT1100%BU, 48□, \$L+.12	10.14	80 060000.31 70	010444.00
SIC, SEN	1310.00	80	010445.00
BRGZ, SERS-ERROR IF FRACTION NOT ALL 1 S	1304.35	42	010445.40
CT0110%BU, 12□, FPK18, 116-CHECKS RESULTING ACC. EXPONENT	22027.00	80 014072.15 70	010446.00
SIC, SEN	1310.00	80	010447.00
BRGZ, SERS	1304.35	42	010447.40
Z, \$L	-	F201A14 10.22	00 010450.00
Z, \$R		11.22	00 010450.40
L%U□, FPK20-ACC. FRACTION HAS 26 LEADING 1 S	22031.40	60	010451.00
+%U□, FPK14-MEM. FRACTION HAS 13 LEADING 0 S	22023.40	20	010451.40
CT1100%BU, 48□, \$L+.12 ✓	10.14	80 060000.31 70	010452.00
SIC, SEN	1310.00	80	010453.00
BRGZ, SERS-ERROR IF FRACTION NOT ALL 1 S	1304.35	42	010453.40
CT0110%BU, 12□, FPK20, 116-CHECKS RESULTING ACC. EXPONENT	22031.00	80 014072.15 70	010454.00
SIC, SEN	1310.00	80	010455.00
BRGZ, SERS	1304.35	42	010455.40
Z, \$L	-	F201A15 10.22	00 010456.00
Z, \$R		11.22	00 010456.40
L%U□, FPK20-AC. FRACTION HAS 26 LEADING 1 S	22031.40	60	010457.00
+%U□, FPK7-MEM. FRACTION HAS 3 LEADING 0 S	22014.40	20	010457.40
CT1100%BU, 48□, \$L+.12	10.14	80 060000.31 70	010460.00
SIC, SEN	1310.00	80	010461.00
BRGZ, SERS-ERROR IF FRACTION NOT ALL ONES	1304.35	42	010461.40
CT0110%BU, 12□, FPK20, 116-CHECKS RESULTING ACC. EXPONENT	22031.00	80 014072.15 70	010462.00
SIC, SEN	1310.00	80	010463.00
BRGZ, SERS	1304.35	42	010463.40
Z, \$L	-	F201A16 10.22	00 010464.00
Z, \$R		11.22	00 010464.40
L%U□, FPK3-ACC. FRAC. HAS NO LEADING 0 S	22010.40	60	010465.00
+%U□, FPK21-MEM. FRAC. HAS 48 LEADING 1 S	22032.40	20	010465.40
CT1100%BU, 48□, \$L+.12	10.14	80 060000.31 70	010466.00
SIC, SEN	1310.00	80	010467.00
BRGZ, SERS-ERROR IF FRAC. NOT ALL ONES	1304.35	42	010467.40
CT0110%BU, 12□, FPK21, 116-CHECKS RESULTING ACC. EXPONENT	22032.00	80 014072.15 70	010470.00
SIC, SEN	1310.00	80	010471.00
BRGZ, SERS	1304.35	42	010471.40
Z, \$L	-	F201A17 10.22	00 010472.00
Z, \$R		11.22	00 010472.40
L%U□, FPK21-ACC. FRAC. HAS 48 LEADING 1 S	22032.40	60	010473.00
+%U□, FPK3-MEM. FRAC. HAS NO LEADING 0 S	22010.40	20	010473.40
CT1100%BU, 48□, \$L+.12	10.14	80 060000.31 70	010474.00
SIC, SEN	1310.00	80	010475.00
BRGZ, SERS-ERROR IF FRACTION NOT ALL ONES	1304.35	42	010475.40
CT0110%BU, 12□, FPK21, 116-CHECKS RESULTING ACC. EXPONENT	22032.00	80 014072.15 70	010476.00
SIC, SEN	1310.00	80	010477.00
BRGZ, SERS	1304.35	42	010477.40

Z,\$L	-	F201A18	10.22	00	010500.00
Z,\$R			11.22	00	010500.40
L%U□, FPK21-ACC. FRACT. 48 1 S			22032.40	60	010501.00
+%U□, FPK28-MEM. FRACT. 48 1 S			22041.40	20	010501.40
CT1100%BU, 48□, \$L+.12			10.14	80 060000.31 70	010502.00
SIC, SEN			1310.00	80	010503.00
BRGZ, SERS-ERROR IF FRAC. NOT ALL ONES			1304.35	42	010503.40
CT0110%BU, 12□, FPK28, 116-CHECKS RESULTING ACC. EXPONENT			22041.00	80 014072.15 70	010504.00
SIC, SEN			1310.00	80	010505.00
BRGZ, SERS			1304.35	42	010505.40
Z,\$L	-	F201A19	10.22	00	010506.00
Z,\$R			11.22	00	010506.40
L%U□, FPK28-ACC. FRACT. 48 1 S			22041.40	60	010507.00
+%U□, FPK21-MEM. FRACT. 48 1 S			22032.40	20	010507.40
CT1100%BU, 48□, \$L+.12			10.14	80 060000.31 70	010510.00
SIC, SEN			1310.00	80	010511.00
BRGZ, SERS-ERROR IF FRAC. NOT ALL ONES			1304.35	42	010511.40
CT0110%BU, 12□, FPK28, 116-CHECKS RESULTING ACC. EXPONENT			22041.00	80 014072.15 70	010512.00
SIC, SEN			1310.00	80	010513.00
BRGZ, SERS			1304.35	42	010513.40
L%U□, FK23	-	F201A20	22171.40	60	010514.00
+%U□, FK24			22172.40	20	010514.40
CT0110%BU, 60□, FK23, 68-CHECK FOR OPND WITH +2047 EXP.			22171.00	80 074042.15 70	010515.00
SIC, SEN			1310.00	80	010516.00
BRGZ, SERS			1304.35	42	010516.40
L%U□, FK23-EXP++2047		F201A21	22171.40	60	010517.00
+%U□, FPK38-EXP++50			22053.40	20	010517.40
CT0110%BU, 60□, FK23, 68-RESULT IS OPND FROM ACC.			22171.00	80 074042.15 70	010520.00
SIC, SEN			1310.00	80	010521.00
BRGZ, SERS			1304.35	42	010521.40
L%U□, FK23-EXP. ++2047		F201A22	22171.40	60	010522.00
+%U□, FPK2-EXP. +-2047			22007.40	20	010522.40
CT0110%BU, 60□, FK23, 68-RESULT IS OPND FROM ACC.			22171.00	80 074042.15 70	010523.00
SIC, SEN			1310.00	80	010524.00
BRGZ, SERS			1304.35	42	010524.40
L%U□, FPK2-EXP. +-2047		F201A23	22007.40	60	010525.00
+%U□, FPK38-EXP. ++50			22053.40	20	010525.40
CT0110%BU, 60□, FPK38, 68-RESULT IS OPND FROM MEM.			22053.00	80 074042.15 70	010526.00
SIC, SEN			1310.00	80	010527.00
BRGZ, SERS			1304.35	42	010527.40
L%U□, FPK2-EXP+-2047		F201A24	22007.40	60	010530.00
+%U□, FK25-EXPS-1791			22173.40	20	010530.40
CT0110%BU, 60□, FK25, 68-RESULT IS OPND FROM MEM.			22173.00	80 074042.15 70	010531.00
SIC, SEN			1310.00	80	010532.00
BRGZ, SERS			1304.35	42	010532.40
-TEST NORMALIZATION MODIFIER IGNORED FOR FOLLOWING					
-RANGES-XFP+XFP, XFP+N, XFP+XFN, AND XFN+XFN					
L%U□, FK26		F201A25	22174.40	60	010533.00
+%N□, FK27			22175.00	20	010533.40
CT0110%BU, 60□, FK26, 68-TEST RESULT IS OPND FROM			22174.00	80 074042.15 70	010534.00
SIC, SEN			1310.00	80	010535.00
BRGZ, SERS			1304.35	42	010535.40
L%U□, FK28-		F201A26	22176.40	60	010536.00
+%N□, FK26			22174.00	20	010536.40
CT0110%BU, 60□, FK26, 68-ERROR IF FRACTIONS ADDED OR NORMALIZED			22174.00	80 074042.15 70	010537.00
SIC, SEN			1310.00	80	010540.00
BRGZ, SERS			1304.35	42	010540.40
L%U□, FK21-		F201A27	22167.40	60	010541.00
+%N□, FK30			22200.00	20	010541.40
CT0110%BU, 60□, FK21, 68-ERROR IF FRACTIONS ADDED OR NORMALIZED			22167.00	80 074042.15 70	010542.00
SIC, SEN			1310.00	80	010543.00
BRGZ, SERS			1304.35	42	010543.40

L%U□,FK31-	F201A28	22201.40	60		010544.00
+%N□,FK30		22200.00	20		010544.40
CT0110%BU,60□,FK30,68-ERROR IF FRACTIONS ADDED OR NORMALIZED		22200.00	80	074042.15 70	010545.00
SIC,SEN		1310.00	80		010546.00
BRGZ,SERS		1304.35	42		010546.40
-TEST NORMALIZATION PROCESS FOR FOLLOWING RANGES-					
-N+XFN,AND N+N.					
L%U□,FK28-	F201A29	22176.40	60		010547.00
+%N□,FK31		22201.00	20		010547.40
CT0110%BU,60□,FK32,68-ERROR IF FRACTION IN ACC.WAS		22202.00	80	074042.15 70	010550.00
SIC,SEN		1310.00	80		010551.00
BRGZ,SERS		1304.35	42		010551.40
L%U□,FK13-	F201A30	22022.40	60		010552.00
+%N□,FK10		22017.00	20		010552.40
CT0110%BU,60□,FK33,68-TESTS FRACTIONS ADDED AND,		22203.00	80	074042.15 70	010553.00
SIC,SEN		1310.00	80		010554.00
BRGZ,SERS		1304.35	42		010554.40
'BD,\$+1.0		10556.04	00		010555.00
B,FA1		10326.50	00		010555.40
SIC,SEN+0.32		1311.40	80		010556.00
B,SSW -TO SSIP		1301.10	00		010556.40

50-76

---F201B---SIGN AND MODIFIER COMBINATIONS
-MS + MEM, SIGN, ACS + ACC, SIGN, N AND A ARE MODIFIERS

SAP2A	BD,\$+,32				10557.44	00			010557.00
	Z,\$L	- MS+ACS+N+A+0	F201B1		10.22	00			010557.40
	L%U□,FPK4-	LOAD NUMBER WITH EFFECTIVE SIGN POS.			22011.40	60			010560.00
	+%U□,FPK19-	ADD NUMBER WITH EFFECTIVE SIGN POS.			22030.40	20			010560.40
	CT0110%BU,60□,FPK22,68-	WERE NUMBERS ADDED CORRECTLY			22033.00	80	074042.15	70	010561.00
	SIC,SEN				1310.00	80			010562.00
	BRGZ,SERS				1304.35	42			010562.40
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010565.34	00	010563.00
	SIC,SEN				1310.00	80			010564.00
	B,SERS				1304.10	00			010564.40
	Z,\$L	- MS+ACS+N+0 A+1	F201B2		10.22	00			010565.00
	L%U□,FPK4-	LOAD NUMBER WITH EFFECTIVE SIGN POS.			22011.40	60			010565.40
	+A%U□,FPK19-	ADD NUMBER WITH EFFECTIVE SIGN POS.			22030.60	20			010566.00
	CT0110%BU,60□,FPK22,68-	WERE NUMBERS ADDED CORRECTLY			22033.00	80	074042.15	70	010566.40
	SIC,SEN				1310.00	80			010567.40
	BRGZ,SERS				1304.35	42			010570.00
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010572.74	00	010570.40
	SIC,SEN				1310.00	80			010571.40
	B,SERS				1304.10	00			010572.00
	Z,\$L	- MS+ACS+A+1 N+1 ACC□MEM	F201B3		10.22	00			010572.40
	L%U□,FPK19-	LOAD NUMBER WITH EFFECTIVE SIGN POS.			22030.40	60			010573.00
	-%U□,FPK4-	ADD NUMBER WITH EFFECTIVE SIGN NEG.			22011.50	20			010573.40
	CT0110%BU,60□,FPK4,68-	WERE NUMBERS ADDED CORRECTLY			22011.00	80	074042.15	70	010574.00
	SIC,SEN				1310.00	80			010575.00
	BRGZ,SERS				1304.35	42			010575.40
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010600.34	00	010576.00
	SIC,SEN				1310.00	80			010577.00
	B,SERS				1304.10	00			010577.40
	Z,\$L	- MS+ACS+A+1 N+1 ACC□MEM	F201B3A		10.22	00			010600.00
	L%U□,FPK4-	LOAD NUMBER WITH EFFECTIVE SIGN POS			22011.40	60			010600.40
	-%U□,FPK19-	ADD NUMBER WITH EFFECTIVE SIGN NEG.			22030.50	20			010601.00
	CT0110%BU,60□,FPK4,68-	WERE NUMBERS ADDED CORRECTLY			22011.00	80	074042.15	70	010601.40
	SIC,SEN				1310.00	80			010602.40
	BRGZ,SERS				1304.35	42			010603.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010605.74	02	010603.40
	SIC,SEN				1310.00	80			010604.40
	B,SERS				1304.10	00			010605.00
	Z,\$L	- MS+ACS+0 N+A+1 ACC□MEM	F201B4		10.22	00			010605.40
	L%U□,FPK19-	LOAD NUMBER WITH EFFECTIVE SIGN POS.			22030.40	60			010606.00
	-A%U□,FPK4-	ADD NUMBER WITH EFFECTIVE SIGN NEG.			22011.70	20			010606.40
	CT0110%BU,60□,FPK4,68-	WERE NUMBERS ADDED CORRECTLY			22011.00	80	074042.15	70	010607.00
	SIC,SEN				1310.00	80			010610.00
	BRGZ,SERS				1304.35	42			010610.40
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04	80	010613.34	00	010611.00
	SIC,SEN				1310.00	80			010612.00
	B,SERS				1304.10	00			010612.40
	Z,\$L	- MS+ACS+0 N+A+1 ACC□MEM	F201B4A		10.22	00			010613.00
	L%U□,FPK4-	LOAD NUMBER WITH EFFECTIVE SIGN POS.			22011.40	60			010613.40
	-A%U□,FPK19-	ADD NUMBER WITH EFFECTIVE SIGN NEG.			22030.70	20			010614.00
	CT0110%BU,60□,FPK4,68-	WERE NUMBERS ADDED CORRECTLY			22011.00	80	074042.15	70	010614.40
	SIC,SEN				1310.00	80			010615.40
	BRGZ,SERS				1304.35	42			010616.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04	80	010620.74	02	010616.40
	SIC,SEN				1310.00	80			010617.40
	B,SERS				1304.10	00			010620.00

Z,\$L	- MS+N+A+0	ACS+1	ACC%MEM	F201B5	10.22	00		010620.40
LN%U□,FPK4-EFFECTIVE SIGN OF NUMBER NEG.					22011.50	60		010621.00
+%U□,FPK19-EFFECTIVE SIGN OF NUMBER POS.					22030.40	20		010621.40
CT0110%BU,60□,FPK4,68-WERE NUMBERS ADDED CORRECTLY					22011.00	80	074042.15 70	010622.00
SIC,SEN					1310.00	80		010623.00
BRGZ,SERS					1304.35	42		010623.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010626.34 00	010624.00
SIC,SEN					1310.00	80		010625.00
B,SERS					1304.10	00		010625.40
Z,\$L	- MS+N+A+0	ACS+1	ACC□MEM	F201B5A	10.22	00		010626.00
LN%U□,FPK19-EFFECTIVE SIGN OF NUMBER IS NEG.					22030.50	60		010626.40
+%U□,FPK4-EFFECTIVE SIGN OF NUMBER IS POS.					22011.40	20		010627.00
CT0110%BU,60□,FPK4,68-WERE NUMBERS ADDED CORRECTLY					22011.00	80	074042.15 70	010627.40
SIC,SEN					1310.00	80		010630.40
BRGZ,SERS					1304.35	42		010631.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010633.74 02	010631.40
SIC,SEN					1310.00	80		010632.40
B,SERS					1304.10	00		010633.00
Z,\$L	- MS+N+0	ACS+A+1	ACC%MEM	F201B6	10.22	00		010633.40
LN%U□,FPK4-EFFECTIVE SIGN OF NUMBER NEG.					22011.50	60		010634.00
+A%U□,FPK19-EFFECTIVE SIGN OF NUMBER POS.					22030.60	20		010634.40
CT0110%BU,60□,FPK4,68-WERE NUMBERS ADDED CORRECTLY					22011.00	80	074042.15 70	010635.00
SIC,SEN					1310.00	80		010636.00
BRGZ,SERS					1304.35	42		010636.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010641.34 00	010637.00
SIC,SEN					1310.00	80		010640.00
B,SERS					1304.10	00		010640.40
Z,\$L	- MS+N+0	ACS+A+1	ACC%MEM	F201B6A	10.22	00		010641.00
LN%U□,FPK19-EFFECTIVE SIGN OF NUMBER NEG.					22030.50	60		010641.40
+A%U□,FPK4-EFFECTIVE SIGN OF NUMBER POS.					22011.60	20		010642.00
CT0110%BU,60□,FPK4,68-WERE NUMBERS ADDED CORRECTLY					22011.00	80	074042.15 70	010642.40
SIC,SEN					1310.00	80		010643.40
BRGZ,SERS					1304.35	42		010644.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010646.74 02	010644.40
SIC,SEN					1310.00	80		010645.40
B,SERS					1304.10	00		010646.00
Z,\$L	- MS+A+0	ACS+N+1		F201B7	10.22	00		010646.40
LN%U□,FPK4-EFFECTIVE SIGN OF NUMBER NEG.					22011.50	60		010647.00
-%U□,FPK19-EFFECTIVE SIGN OF NUMBER NEG.					22030.50	20		010647.40
CT0110%BU,60□,FPK22,68-WERE NUMBERS ADDED CORRECTLY					22033.00	80	074042.15 70	010650.00
SIC,SEN					1310.00	80		010651.00
BRGZ,SERS					1304.35	42		010651.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010654.34 02	010652.00
SIC,SEN					1310.00	80		010653.00
B,SERS					1304.10	00		010653.40
Z,\$L	- MS+C	ACS+N+A+1		F201B8	10.22	00		010654.00
LN%U□,FPK4-EFFECTIVE SIGN OF NUMBER NEG.					22011.50	60		010654.40
-A%U□,FPK19-EFFECTIVE SIGN OF NUMBER NEG.					22030.70	20		010655.00
CT0110%BU,60□,FPK22,68-WERE NUMBERS ADDED CORRECTLY					22033.00	80	074042.15 70	010655.40
SIC,SEN					1310.00	80		010656.40
BRGZ,SERS					1304.35	42		010657.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010661.74 02	010657.40
SIC,SEN					1310.00	80		010660.40
B,SERS					1304.10	00		010661.00
Z,\$L	- MS+1	ACS+N+A+0	ACC□MEM	F201B9	10.22	00		010661.40
L%U□,FPK19-EFFECTIVE SIGN OF NUMBER POS.					22030.40	60		010662.00
+%U□,FPK24-EFFECTIVE SIGN OF NUMBER NEG.					22035.40	20		010662.40
CT0110%BU,60□,FPK24,68-WERE NUMBERS ADDED CORRECTLY					22035.00	80	074042.15 70	010663.00
SIC,SEN					1310.00	80		010664.00
BRGZ,SERS					1304.35	42		010664.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010667.34 00	010665.00
SIC,SEN					1310.00	80		010666.00

Z,\$L	- MS+1	ACS+N+A+0	ACC%MEM	F201B9A	10.22	00		010667.00
L%U□,FPK4-EFFECTIVE SIGN OF NUMBER POS.					22011.40	60		010667.40
+%U□,FPK23-EFFECTIVE SIGN OF NUMBER NEG.					22034.40	20		010670.00
CT0110%BU,60□,FPK4,68-WERE NUMBERS ADDED CORRECTLY					22011.00	80	074042.15 70	010670.40
SIC,SEN					1310.00	80		010671.40
BRGZ,SERS					1304.35	42		010672.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010674.74 02	010672.40
SIC,SEN					1310.00	80		010673.40
B,SERS					1304.10	00		010674.00
Z,\$L	- MS+A+1	ACS+N+0		F201B10	10.22	00		010674.40
L%U□,FPK4-EFFECTIVE SIGN OF NUMBER POS.					22011.40	60		010675.00
+A%U□,FPK23-EFFECTIVE SIGN OF NUMBER POS.					22034.60	20		010675.40
CT0110%BU,60□,FPK22,68-WERE NUMBERS ADDED CORRECTLY					22033.00	80	074042.15 70	010676.00
SIC,SEN					1310.00	80		010677.00
BRGZ,SERS					1304.35	42		010677.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010702.34 00	010700.00
SIC,SEN					1310.00	80		010701.00
B,SERS					1304.10	00		010701.40
Z,\$L	- MS+N+1	ACS+A+0		F201B11	10.22	00		010702.00
L%U□,FPK4-EFFECTIVE SIGN OF NUMBER POS					22011.40	60		010702.40
-%U□,FPK23-EFFECTIVE SIGN OF NUMBER POS					22034.50	20		010703.00
CT0110%BU,60□,FPK22,68-WERE NUMBERS ADDED CORRECTLY					22033.00	80	074042.15 70	010703.40
SIC,SEN					1310.00	80		010704.40
BRGZ,SERS					1304.35	42		010705.00
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010707.74 00	010705.40
SIC,SEN					1310.00	80		010706.40
B,SERS					1304.10	00		010707.00
Z,\$L	- MS+N+A+1	ACS+0	ACC%MEM	F201B12	10.22	00		010707.40
L%U□,FPK19-EFFECTIVE SIGN OF NUMBER POS					22030.40	60		010710.00
-A%U□,FPK24-EFFECTIVE SIGN OF NUMBER NEG.					22035.70	20		010710.40
CT0110%BU,60□,FPK24,68-WERE NUMBERS ADDED CORRECTLY					22035.00	80	074042.15 70	010711.00
SIC,SEN					1310.00	80		010712.00
BRGZ,SERS					1304.35	42		010712.40
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010715.34 00	010713.00
SIC,SEN					1310.00	80		010714.00
B,SERS					1304.10	00		010714.40
Z,\$L	- MS+N+A+1	ACS+0	ACC%MEM	F201B12A	10.22	00		010715.00
L%U□,FPK4-EFFECTIVE SIGN OF NUMBER POS.					22011.40	60		010715.40
-A%U□,FPK23-EFFECTIVE SIGN OF NUMBER NEG.					22034.70	20		010716.00
CT0110%BU,60□,FPK4,68-WERE NUMBERS ADDED CORRECTLY					22011.00	80	074042.15 70	010716.40
SIC,SEN					1310.00	80		010717.40
BRGZ,SERS					1304.35	42		010720.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010722.74 02	010720.40
SIC,SEN					1310.00	80		010721.40
B,SERS					1304.10	00		010722.00
Z,\$L	- MS+ACS+1	N+A+0		F201B13	10.22	00		010722.40
L%U□,FPK23-EFFECTIVE SIGN OF NUMBER NEG.					22034.40	60		010723.00
+%U□,FPK24-EFFECTIVE SIGN OF NUMBER NEG.					22035.40	20		010723.40
CT0110%BU,60□,FPK22,68-WERE NUMBERS ADDED CORRECTLY					22033.00	80	074042.15 70	010724.00
SIC,SEN					1310.00	80		010725.00
BRGZ,SERS					1304.35	42		010725.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010730.34 02	010726.00
SIC,SEN					1310.00	80		010727.00
B,SERS					1304.10	00		010727.40
Z,\$L	- MS+ACS+A+1	N+0	ACC%MEM	F201B14	10.22	00		010730.00
L%U□,FPK24-EFFECTIVE SIGN OF NUMBER NEG.					22035.40	60		010730.40
+A%U□,FPK23-EFFECTIVE SIGN OF NUMBER POS.					22034.60	20		010731.00
CT0110%BU,60□,FPK24,68-WERE NUMBERS ADDED CORRECTLY					22035.00	80	074042.15 70	010731.40
SIC,SEN					1310.00	80		010732.40
BRGZ,SERS					1304.35	42		010733.00
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010735.74 00	010733.40
SIC,SEN					1310.00	80		010734.40

Z,\$L	- MS+ACS+A+1	N+0	ACC%MEM	F201B14A	10.22	00		010735.40
L%U□,FPK23-EFFECTIVE SIGN OF NUMBER NEG.					22034.40	60		010736.00
+A%U□,FPK24-EFFECTIVE SIGN OF NUMBER POS.					22035.60	20		010736.40
CT0110%BU,60□,FPK24,68-WERE NUMBERS ADDED CORRECTLY					22035.00	80	074042.15 70	010737.00
SIC,SEN					1310.00	80		010740.00
BRGZ,SERS					1304.35	42		010740.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010743.34 02	010741.00
SIC,SEN					1310.00	80		010742.00
B,SERS					1304.10	00		010742.40
Z,\$L	- MS+ACS+N+1	A+0	ACC%MEM	F201B15	10.22	00		010743.00
L%U□,FPK24-EFFECTIVE SIGN OF NUMBER NEG.					22035.40	60		010743.40
-%U□,FPK23-EFFECTIVE SIGN OF NUMBER POS.					22034.50	20		010744.00
CT0110%BU,60□,FPK24,68-WERE NUMBERS ADDED CORRECTLY					22035.00	80	074042.15 70	010744.40
SIC,SEN					1310.00	80		010745.40
BRGZ,SERS					1304.35	42		010746.00
BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0				12.04	80	010750.74 00	010746.40
SIC,SEN					1310.00	80		010747.40
B,SERS					1304.10	00		010750.00
Z,\$L	- MS+ACS+N+1	A+0	ACC%MEM	F201B15A	10.22	00		010750.40
L%U□,FPK23-EFFECTIVE SIGN OF NUMBER NEG.					22034.40	60		010751.00
-%U□,FPK24-EFFECTIVE SIGN OF NUMBER POS.					22035.50	20		010751.40
CT0110%BU,60□,FPK24,68-WERE NUMBERS ADDED CORRECTLY					22035.00	80	074042.15 70	010752.00
SIC,SEN					1310.00	80		010753.00
BRGZ,SERS					1304.35	42		010753.40
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010756.34 02	010754.00
SIC,SEN					1310.00	80		010755.00
B,SERS					1304.10	00		010755.40
Z,\$L	- MS+ACS+N+1			F201B16	10.22	00		010756.00
L%U□,FPK23-EFFECTIVE SIGN OF NUMBER NEG.					22034.40	60		010756.40
-A%U□,FPK24-EFFECTIVE SIGN OF NUMBER NEG.					22035.70	20		010757.00
CT0110%BU,60□,FPK22,68-WERE NUMBERS ADDED CORRECTLY					22033.00	80	074042.15 70	010757.40
SIC,SEN					1310.00	80		010760.40
BRGZ,SERS					1304.35	42		010761.00
BB,10.4,\$+2.0	- CHECK SIGN BIT + 1				12.04	80	010763.74 02	010761.40
SIC,SEN					1310.00	80		010762.40
B,SERS					1304.10	00		010763.00
BD,\$+1.0					10764.44	00		010763.40
B,SAP2A					10557.10	00		010764.00
SIC,SEN0+.32					1311.40	80		010764.40
B,SSW	-TO SSIP				1301.10	00		010765.00

---F201C---UNCHANGED REGISTERS

SAP2B	BD,\$+.32				10766.04 00		010765.40
	Z,\$R	-		F201C1	11.22 00		010766.00
	L%U□,FPK4				22011.40 60		010766.40
	+%U□,FPK19				22030.40 20		010767.00
	CT0101%BU□,FPK0-DOES \$R REMAIN UNCHANGED				22005.00 80 000000.13 70		010767.40
	SIC,SEN				1310.00 80		010770.40
	BRGZ,SERS				1304.35 42		010771.00
	L%BU□,FPK1	-		F201C2	22006.00 80 000000.20 50		010771.40
	L%U□,FPK4				22011.40 60		010772.40
	+%U□,FPK19				22030.40 20		010773.00
	CT1010%BU□,FPK1-DOES \$R REMAIN UNCHANGED				22006.00 80 000000.25 70		010773.40
	SIC,SEN				1310.00 80		010774.40
	BRGZ,SERS				1304.35 42		010775.00
	Z,\$SB	-		F201C3	12.22 00		010775.40
	Z,\$L				10.22 00		010776.00
	+%U□,FPK21-FLAG EQ 7				22032.40 20		010776.40
	CT0011%BU□,\$SB-DOES \$SB0-3,5-7 REMAIN SAME				12.00 80 000000.07 70		010777.00
	SIC,SEN				1310.00 80		011000.00
	BRGZ,SERS				1304.35 42		011000.40
	CM1111%BU□,\$SB	-SIGN BYTE TO ONES		F201C4	12.00 80 000000.36 F0		011001.00
	Z,\$L				10.22 00		011002.00
	-%U□,FPK3-EFFECTIVE SIGN OF NUMBER NEG.				22010.50 20		011002.40
	CT1100%BU,8□,\$SB-DOES \$SB0-3,K-7 REMAIN SAME				12.00 80 010000.31 70		011003.00
	SIC,SEN				1310.00 80		011004.00
	BRGZ,SERS				1304.35 42		011004.40
	C1111%BU,64□,FPK1,64	-ONES TO LACC		F201C5	22006.00 80 000040.36 70		011005.00
	L%U□,FPK3				22010.40 60		011006.00
	+%U□,FPK7				22014.40 20		011006.40
	CT0110%BU,4□,8.60-DOES L60-63 REMAIN + 1 S				10.74 80 004000.15 70		011007.00
	SIC,SEN				1310.00 80		011010.00
	BRGZ,SERS				1304.35 42		011010.40
	Z,\$L	-		F201C6	10.22 00		011011.00
	+%U□,FPK3				22010.40 20		011011.40
	CT0011%BU,4□,8.60-DOES L 60-63 REMAIN + 0 S				10.74 80 004000.07 70		011012.00
	SIC,SEN				1310.00 80		011013.00
	BRGZ,SERS				1304.35 42		011013.40
	BD,\$+1.0				11015.04 00		011014.00
	B,SAP2B				10765.50 00		011014.40
	SIC,SEN0+.32				1311.40 80		011015.00
	B,SSW	-TO SSIP			1301.10 00		011015.40

----F201D---TEST INDICATORS

SAP2C	BD,\$+.32				11016.44	00		011016.00
	Z,\$IND	- FLAG INDICATORS ON	F201D1		13.22	00		011016.40
	Z,\$L				10.22	00		011017.00
	+%U□,FPK1-FLAGS + 7				22006.40	20		011017.40
	SIC,SEN				1310.00	80		011020.00
	BZTF,SERS	- T FLAG IND NOT ON			1304.21	C0		011020.40
	SIC,SEN				1310.00	80		011021.00
	BZUF,SERS	- U FLAG IND NOT ON			1304.22	40		011021.40
	SIC,SEN				1310.00	80		011022.00
	BZVF,SERS	-VF NOT ON.			1304.22	C0		011022.40
	Z,\$L	-TURN OFF FLAGS.	F201D2		10.22	00		011023.00
	BB1,\$TF,\$+1.				13.43	80	011024.74 OE	011023.40
	BB1,\$UF,\$+1.				13.44	80	011025.74 OE	011024.40
	BB1,\$VF,\$+1.				13.45	80	011026.74 OE	011025.40
	+%U□,FPK2-FLAGS + 0				22007.40	20		011026.40
	SIC,SEN				1310.00	80		011027.00
	BTF,SERS	- T FLAG IND NOT OFF			1304.21	C2		011027.40
	SIC,SEN				1310.00	80		011030.00
	BUF,SERS	- U FLAG IND NOT OFF			1304.22	42		011030.40
	SIC,SEN				1310.00	80		011031.00
	BVF,SERS	- V FLAG IND NOT OFF			1304.22	C2		011031.40
	BB1,\$MOP,\$+1.0	-TURN OFF LD-CHK MOP	F201D3		13.67	80	011033.34 OE	011032.00
	Z,\$L				10.22	00		011033.00
	+%U□,FPK3				22010.40	20		011033.40
	SIC,SEN				1310.00	80		011034.00
	BMOP,SERS	-MOP NOT OFF.			1304.33	C2		011034.40
	Z,\$L	-RLZ AND RN ON	F201D4		10.22	00		011035.00
	BB1,\$RGZ,\$+1.				13.72	80	011036.74 OE	011035.40
	BB1,\$RZ,\$+1.				13.71	80	011037.74 OE	011036.40
	BRLZZ,\$+1				11040.34	46		011037.40
	BRNZ,\$+1				11040.75	C6		011040.00
	+%U□,FK104				22311.40	20		011040.40
	SIC,SEN				1310.00	80		011041.00
	BZRLZ,SERS	- RLZ IND NOT ON			1304.34	40		011041.40
	SIC,SEN				1310.00	80		011042.00
	BZRN,SERS	- RN IND NOT ON			1304.35	C0		011042.40
	SIC,SEN				1310.00	80		011043.00
	BRGZ,SERS	- RGZ IND NOT OFF			1304.35	42		011043.40
	SIC,SEN				1310.00	80		011044.00
	BRZ,SERS	--RZ ON,ERROR.			1304.34	C2		011044.40
	Z,\$L	-RN AND RZ ON	F201D5		10.22	00		011045.00
	BB1,10.4,\$+1.0				12.04	80	011046.74 OE	011045.40
	BB1,\$RGZ,\$+1.				13.72	80	011047.74 OE	011046.40
	BB1,\$RLZ,\$+1.				13.70	80	011050.74 OE	011047.40
	BRNZ,\$+1				11051.35	C6		011050.40
	BRZZ,\$+1				11051.74	C6		011051.00
	-%U□,FPK0				22005.50	20		011051.40
	SIC,SEN				1310.00	80		011052.00
	BZRN,SERS	-ERROR IF RN OFF			1304.35	C0		011052.40
	SIC,SEN				1310.00	80		011053.00
	BZRZ,SERS	- RZ IND NOT ON			1304.34	C0		011053.40
	SIC,SEN				1310.00	80		011054.00
	BRLZ,SERS	- RLZ IND NOT OFF			1304.34	42		011054.40
	SIC,SEN				1310.00	80		011055.00
	BRGZ,SERS	-RGZ ON,ERROR.			1304.35	42		011055.40

Z,\$L	-RZ ON.	F201D6	10.22 00		011056.00
BB1,\$RLZ,\$+1.			13.70 80	011057.74 OE	011056.40
BB1,\$RN,\$+1.			13.73 80	011060.74 OE	011057.40
BB1,\$RGZ,\$+1.			13.72 80	011061.74 OE	011060.40
BRZZ,\$+1			11062.34 C6		011061.40
BBZ,10.4,\$+1.0			12.04 80	011063.34 06	011062.00
+%U□,FPK0			22005.40 20		011063.00
SIC,SEN			1310.00 80		011063.40
BZRZ,SERS	- RZ IND NOT ON		1304.34 C0		011064.00
SIC,SEN			1310.00 80		011064.40
BRLZ,SERS	- RLZ IND NOT OFF		1304.34 42		011065.00
SIC,SEN			1310.00 80		011065.40
BRN ,SERS	- RN IND NOT OFF		1304.35 C2		011066.00
SIC,SEN			1310.00 80		011066.40
BRGZ,SERS	-ERROR IF RGZ ON.		1304.35 42		011067.00
Z,\$L	-RGZ ON.	F201D7	10.22 00		011067.40
BB1,\$RLZ,\$+1.			13.70 80	011071.34 OE	011070.00
BB1,\$RZ,\$+1.			13.71 80	011072.34 OE	011071.00
BB1,\$RN,\$+1.			13.73 80	011073.34 OE	011072.00
BRGZZ,\$+1			11073.75 46		011073.00
+%U□,FPK28			22041.40 20		011073.40
SIC,SEN			1310.00 80		011074.00
BZRGZ,SERS	- RGZ IND NOT ON		1304.35 40		011074.40
SIC,SEN			1310.00 80		011075.00
BRLZ,SERS	- RLZ IND NOT OFF		1304.34 42		011075.40
SIC,SEN			1310.00 80		011076.00
BRN,SERS	- RN IND NOT OFF		1304.35 C2		011076.40
SIC,SEN			1310.00 80		011077.00
BRZ,SERS	-ERROR IF RZ ON.		1304.34 C2		011077.40
BLCZ,\$+1	-LOST CARRY.	F201D8	11100.53 46		011100.00
L%U□,FPK22-ALL ONES FRACTION			22033.40 60		011100.40
+%U□,FPK22-ALL ONES FRACTION			22033.40 20		011101.00
SIC,SEN			1310.00 80		011101.40
BZLC,SERS	-ERROR IF LC OFF.		1304.13 40		011102.00
BLSZ,\$+1	-LS OFF.	F201D9	11103.15 46		011102.40
L%U□,FPK0-BOTH OPERANDS ALL ZEROS			22005.40 60		011103.00
+%U□,FPK0			22005.40 20		011103.40
SIC,SEN			1310.00 80		011104.00
BLS,SERS	-ERROR IF LS ON.		1304.15 42		011104.40
BLSZ,\$+1	-LS ON.	F201D10	11105.55 46		011105.00
L%U□,FPK21-LOAD ALL ONES OPERAND			22032.40 60		011105.40
-%U□,FPK21-ADD ONES OP. WITH EFFECTIVE SIGN NEG.			22032.50 20		011106.00
SIC,SEN			1310.00 80		011106.40
BZLS,SERS	-ERROR IF LS OFF.		1304.15 40		011107.00
BLSZ,\$+1	-LS OFF.	F201D11	11110.15 46		011107.40
L%U□,FPK21-LOAD OPERAND EQ 1 S			22032.40 60		011110.00
+%U□,FPK25-ADD OP WITH HIGH ORDER ONES			22036.40 20		011110.40
SIC,SEN			1310.00 80		011111.00
BZLS,SERS	- ERROR IF LS IND OFF		1304.15 40		011111.40
-RESULT CONTAINS A PROPAGATED EXPONENT FLAG					
BLSZ,\$+1	-LS OFF.	F201D12	11112.55 46		011112.00
L%U□,FK35-EXPONENT FLAG+1			22205.40 60		011112.40
+%U□,FPK28			22041.40 20		011113.00
CT0110%BU,60□,FK35,68-TEST RESULT FRACTION+0			22205.00 80	074042.15 70	011113.40
SIC,SEN			1310.00 80		011114.40
BRGZ,SERS			1304.35 42		011115.00
SIC,SEN			1310.00 80		011115.40
BLS,SERS	-ERROR IF LS ON.		1304.15 42		011116.00
BPSHZ,\$+1	-PSH ON.	F201D13	11117.15 C6		011116.40
L%U□,FPK0-EXP++0			22005.40 60		011117.00
+%U□,FPK21-EXP++50			22032.40 20		011117.40
SIC,SEN			1310.00 80		011120.00

BZPSH,SERS

-ERROR IF PSH OFF.

1304.15 C0

011120.40

BPSHZ,\$+1	-PSH OFF.	F201D14	11121.55 C6	011121.00
L%U#,FK10-EXP. EQUALS 5			22017.40 60	011121.40
+%U#,FK18-EXP. EQUALS 6			22027.40 20	011122.00
SIC,SEN			1310.00 80	011122.40
BPSH,SERS	-ERROR IF PSH ON.		1304.15 C2	011123.00
-RESULT OF A FLOATING POINT ADDITION HAS A PROPAGATED EF+1				
BPSHZ,\$+1	-PSH OFF.	F201D15	11124.15 C6	011123.40
L%U#,FK36			22206.40 60	011124.00
+%U#,FK37			22207.40 20	011124.40
SIC,SEN			1310.00 80	011125.00
BPSH,SERS	-ERROR IF PSH ON.		1304.15 C2	011125.40
L%U#,FK36	- XFPF ON	F201D16	22206.40 60	011126.00
Z,\$IND			13.22 00	011126.40
+%U#,FK37			22207.40 20	011127.00
BB,11.28,\$+2.-ERROR IF XFPF IND. OFF			13.34 80 011131.74 02	011127.40
SIC,SEN			1310.00 80	011130.40
B,SERS-ERROR IF OTHER EXPONENT INDS. ON			1304.10 00	011131.00
BZB,11.29,\$+2.			13.35 80 011133.74 00	011131.40
SIC,SEN			1310.00 80	011132.40
B,SERS			1304.10 00	011133.00
BZB,11.30,\$+2.			13.36 80 011135.74 00	011133.40
SIC,SEN			1310.00 80	011134.40
B,SERS			1304.10 00	011135.00
BZB,11.31,\$+2.			13.37 80 011137.74 00	011135.40
SIC,SEN			1310.00 80	011136.40
B,SERS			1304.10 00	011137.00
BZB,11.32,\$+2.			13.40 80 011141.74 00	011137.40
SIC,SEN			1310.00 80	011140.40
B,SERS			1304.10 00	011141.00
L%U#,FK38	- EXP OFLO ON	F201D17	22210.40 60	011141.40
Z,\$IND			13.22 00	011142.00
+%N#,FK38-NORMALIZATION PRODUCES GENERATED EF+1			22210.00 20	011142.40
BB,11.29,\$+2.-ERROR IF XPO INDICATOR OFF			13.35 80 011145.34 02	011143.00
SIC,SEN			1310.00 80	011144.00
B,SERS-ERROR IF OTHER EXPONENT INDS. ON			1304.10 00	011144.40
BZB,11.28,\$+2.			13.34 80 011147.34 00	011145.00
SIC,SEN			1310.00 80	011146.00
B,SERS			1304.10 00	011146.40
BZB,11.30,\$+2.0			13.36 80 011151.34 00	011147.00
SIC,SEN			1310.00 80	011150.00
B,SERS			1304.10 00	011150.40
BZB,11.31,\$+2.			13.37 80 011153.34 00	011151.00
SIC,SEN			1310.00 80	011152.00
B,SERS			1304.10 00	011152.40
BZB,11.32,\$+2.			13.40 80 011155.34 00	011153.00
SIC,SEN			1310.00 80	011154.00
B,SERS			1304.10 00	011154.40
L%U#,FK22	- EXP RNG HI ON	F201D18	22170.40 60	011155.00
Z,\$IND			13.22 00	011155.40
+%U#,FK25			22173.40 20	011156.00
BB,11.30,\$+2.-ERROR IF XPH INDICATOR OFF			13.36 80 011160.74 02	011156.40
SIC,SEN			1310.00 80	011157.40
B,SERS-ERROR IF OTHER EXPONENT INDS. ON			1304.10 00	011160.00
BZB,11.28,\$+2.			13.34 80 011162.74 00	011160.40
SIC,SEN			1310.00 30	011161.40
B,SERS			1304.10 00	011162.00
BZB,11.29,\$+2.			13.35 80 011164.74 00	011162.40
SIC,SEN			1310.00 80	011163.40
B,SERS			1304.10 00	011164.00
BZB,11.31,\$+2.			13.37 80 011166.74 00	011164.40
SIC,SEN			1310.00 80	011165.40
B,SERS			1304.10 00	011166.00
BZB,11.32,\$+2.			13.40 80 011170.74 00	011166.40

SIC,SEN			1310.00	80		011167.40
	B,SERS		1304.10	00		011170.00
L%U□,FPK28	- EXP RNG LO ON	F201D19	22041.40	60		011170.40
Z,\$IND			13.22	00		011171.00
+%U□,FPK27			22040.40	20		011171.40
BB,11.31,\$+2.	-ERROR IF XPL INDICATOR OFF		13.37	80	011174.34 02	011172.00
SIC,SEN			1310.00	80		011173.00
	B,SERS-ERROR IF OTHER EXPONENT INDS. ON		1304.10	00		011173.40
BZB,11.28,\$+2.			13.34	80	011176.34 00	011174.00
SIC,SEN			1310.00	80		011175.00
	B,SERS		1304.10	00		011175.40
BZB,11.29,\$+2.			13.35	80	011200.34 00	011176.00
SIC,SEN			1310.00	80		011177.00
	B,SERS		1304.10	00		011177.40
BZB,11.30,\$+2.			13.36	80	011202.34 00	011200.00
SIC,SEN			1310.00	80		011201.00
	B,SERS		1304.10	00		011201.40
BZB,11.32,\$+2.			13.40	80	011204.34 00	011202.00
SIC,SEN			1310.00	80		011203.00
	B,SERS		1304.10	00		011203.40
L%U□,FK39	- EXP UFLO ON	F201D20	22211.40	60		011204.00
Z,\$IND			13.22	00		011204.40
+%N□,FK39			22211.00	20		011205.00
BB,11.32,\$+2.	-ERROR IF XPU INDICATOR OFF		13.40	80	011207.74 02	011205.40
SIC,SEN			1310.00	80		011206.40
	B,SERS-ERROR IF OTHER EXPONENT INDS. ON		1304.10	00		011207.00
BZB,11.28,\$+2.			13.34	80	011211.74 00	011207.40
SIC,SEN			1310.00	80		011210.40
	B,SERS		1304.10	00		011211.00
BZB,11.29,\$+2.			13.35	80	011213.74 00	011211.40
SIC,SEN			1310.00	80		011212.40
	B,SERS		1304.10	00		011213.00
BZB,11.30,\$+2.			13.36	80	011215.74 00	011213.40
SIC,SEN			1310.00	80		011214.40
	B,SERS		1304.10	00		011215.00
BZB,11.31,\$+2.			13.37	80	011217.74 00	011215.40
SIC,SEN			1310.00	80		011216.40
	B,SERS		1304.10	00		011217.00
L%U□,FK25	- EXP FLAG NEG ON	F201D21	22173.40	60		011217.40
Z,\$IND			13.22	00		011220.00
+%U□,FPK27			22040.40	20		011220.40
BZB,11.28,\$+2.			13.34	80	011223.34 00	011221.00
SIC,SEN			1310.00	80		011222.00
	B,SERS		1304.10	00		011222.40
BZB,11.29,\$+2.			13.35	80	011225.34 00	011223.00
SIC,SEN			1310.00	80		011224.00
	B,SERS		1304.10	00		011224.40
BZB,11.30,\$+2.			13.36	80	011227.34 00	011225.00
SIC,SEN			1310.00	80		011226.00
	B,SERS		1304.10	00		011226.40
BZB,11.31,\$+2.			13.37	80	011231.34 00	011227.00
SIC,SEN			1310.00	80		011230.00
	B,SERS		1304.10	00		011230.40
BZB,11.32,\$+2.			13.40	80	011233.34 00	011231.00
SIC,SEN			1310.00	80		011232.00
	B,SERS		1304.10	00		011232.40
BD,\$+1.0			11234.04	00		011233.00
	B,SAP2C		11016.10	00		011233.40
SIC,SEN0+.32			1311.40	80		011234.00
	B,SSW	-TO SSIP.	1301.10	00		011234.40

---F201E---SIGN OF ZERO SUM.

-SIGN OF SUM IS MODIFIED SIGN OF FRACT. WITH GREATER EXP.

SAP2D	BD,\$+.32				11235.44 00		011235.00
	L%U□,FK99	- MS+ACS+A+0	N+1	F201E1	22304.40 60		011235.40
	-%U□,FK13				22157.50 20		011236.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04 80	011240.74 02	011236.40
	SIC,SEN				1310.00 80		011237.40
	B,SERS				1304.10 00		011240.00
	L%U□,FK99	- MS+ACS+0	N+A+1	F201E2	22304.40 60		011240.40
	-A%U□,FK13				22157.70 20		011241.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04 80	011243.74 02	011241.40
	SIC,SEN				1310.00 80		011242.40
	B,SERS				1304.10 00		011243.00
	LN%U□,FK99	- MS+N+A+0	ACS+1	F201E3	22304.50 60		011243.40
	+%U□,FK13				22157.40 20		011244.00
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04 80	011246.74 00	011244.40
	SIC,SEN				1310.00 80		011245.40
	B,SERS				1304.10 00		011246.00
	LN%U□,FK99	- MS+N+0	ACS+A+1	F201E4	22304.50 60		011246.40
	+A%U□,FK13				22157.60 20		011247.00
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04 80	011251.74 00	011247.40
	SIC,SEN				1310.00 80		011250.40
	B,SERS				1304.10 00		011251.00
	L%U□,FK99	- MS+1	ACS+N+A+0	F201E5	22304.40 60		011251.40
	+%U□,FK29				22177.40 20		011252.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04 80	011254.74 02	011252.40
	SIC,SEN				1310.00 80		011253.40
	B,SERS				1304.10 00		011254.00
	L%U□,FK99	- MS+N+A+1	ACS+0	F201E6	22304.40 60		011254.40
	-A%U□,FK29				22177.70 20		011255.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04 80	011257.74 02	011255.40
	SIC,SEN				1310.00 80		011256.40
	B,SERS				1304.10 00		011257.00
	LN%U□,FK99	- MS+ACS+A+1	N+0	F201E7	22304.50 60		011257.40
	+A%U□,FK29				22177.60 20		011260.00
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04 80	011262.74 00	011260.40
	SIC,SEN				1310.00 80		011261.40
	B,SERS				1304.10 00		011262.00
	LN%U□,FK99	- MS+ACS+N+1	A+0	F201E8	22304.50 60		011262.40
	-%U□,FK29				22177.50 20		011263.00
	BZB,10.4,\$+2.0	- CHECK SIGN BIT + 0			12.04 80	011265.74 00	011263.40
	SIC,SEN				1310.00 80		011264.40
	B,SERS				1304.10 00		011265.00
	L%U□,FK29	- MS+N+A+0	ACS+1	ME\$AE F201E9	22177.40 60		011265.40
	+%U□,FK99				22304.40 20		011266.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04 80	011270.74 02	011266.40
	SIC,SEN				1310.00 80		011267.40
	B,SERS				1304.10 00		011270.00
	L%U□,FK23	- MS+N+A+0	ACS+1	ME\$AE F201E10	22034.40 60		011270.40
	+%U□,FK19				22030.40 20		011271.00
	BB,10.4,\$+2.0	- CHECK SIGN BIT + 1			12.04 80	011273.74 02	011271.40
	SIC,SEN				1310.00 80		011272.40
	B,SERS				1304.10 00		011273.00
	BD,\$+1.0				11274.44 00		011273.40
	B,SAP2D				11235.10 00		011274.00
	SIC,SEN0+.32				1311.40 80		011274.40
	B,SSW	-TO SSIP.			1301.10 00		011275.00

6

-----F202 ---COMPARE TEST ROUTINE

FC1	BD,\$+,32				11276.04 00		011275.40
	L%BU,F202			-UPDATE IDENT.	21751.00 80	000000.20 50	011276.00
	ST%BU,DPET13				1437.00 80	000000.20 D0	011277.00
	SIC,RET1				1306.40 80		011300.00
		B,IDE1			1443.10 00		011300.40

-----F202A---COMPARE INDICATORS, AL, AE, AH.

SAP3	L%U,FPK0	-		AE ON F202A1	22005.40 60		011301.00
	Z,\$IND				13.22 00		011301.40
	K%U,FPK0				22005.41 20		011302.00
	SIC,SEN				1310.00 80		011302.40
		BZAE,SERS	-ERROR IF AE INDICATOR OFF		1304.36 C0		011303.00
	SIC,SEN				1310.00 80		011303.40
		BAL,SERS	-ERROR IF OTHER COMPARISON INDS.ON		1304.36 42		011304.00
	SIC,SEN				1310.00 80		011304.40
		BAH,SERS			1304.37 42		011305.00
	L%U,FPK3	-		AH ON F202A2	22010.40 60		011305.40
	Z,\$IND				13.22 00		011306.00
	K%U,FPK0				22005.41 20		011306.40
	SIC,SEN				1310.00 80		011307.00
		BZAH,SERS	-ERROR IF AH INDICATOR OFF		1304.37 40		011307.40
	SIC,SEN				1310.00 80		011310.00
		BAL,SERS	-ERROR IF OTHER COMPARISON INDS.ON		1304.36 42		011310.40
	SIC,SEN				1310.00 80		011311.00
		BAE,SERS			1304.36 C2		011311.40
	L%U,FPK0	-		AL ON F202A3	22005.40 60		011312.00
	Z,\$IND				13.22 00		011312.40
	K%U,FPK3				22010.41 20		011313.00
	SIC,SEN				1310.00 80		011313.40
		BZAL,SERS	-ERROR IF AL IND.OFF AND		1304.36 40		011314.00
	SIC,SEN				1310.00 80		011314.40
		BAE,SERS	-OTHER COMPARISON INDS.ON		1304.36 C2		011315.00
	SIC,SEN				1310.00 80		011315.40
		BAH,SERS			1304.37 42		011316.00
	L%U,FPK3	-		AH ON F202A4	22010.40 60		011316.40
	Z,\$IND				13.22 00		011317.00
	K%U,FPK9				22016.41 20		011317.40
	SIC,SEN				1310.00 80		011320.00
		BZAH,SERS	-ERROR IF AH IND.OFF AND		1304.37 40		011320.40
	SIC,SEN				1310.00 80		011321.00
		BAL,SERS	-OTHER COMPARISON INDS.ON		1304.36 42		011321.40
	SIC,SEN				1310.00 80		011322.00
		BAE,SERS			1304.36 C2		011322.40
18	L%U,FPK9	-		AL ON F202A5	22016.40 60		011323.00
	Z,\$IND				13.22 00		011323.40
	K%U,FPK3				22010.41 20		011324.00
15	SIC,SEN				1310.00 80		011324.40
		BZAL,SERS	-ERROR IF AL IND.OFF AND		1304.36 40		011325.00
	SIC,SEN				1310.00 80		011325.40
		BAE,SERS	-OTHER COMPARISON INDS.ON.		1304.36 C2		011326.00
	SIC,SEN				1310.00 80		011326.40
		BAH,SERS			1304.37 42		011327.00
	L%U,FPK3	-		AL ON F202A6	22010.40 60		011327.40
	Z,\$IND				13.22 00		011330.00
	K%U,FPK21	-MEMORY OPND.	CONSIDERED HIGHER		22032.41 20		011330.40
	SIC,SEN				1310.00 80		011331.00
		BZAL,SERS	-ERROR IF AL IND OFF.		1304.36 40		011331.40
	SIC,SEN				1310.00 80		011332.00
		BAE,SERS			1304.36 C2		011332.40
	SIC,SEN				1310.00 80		011333.00
		BAH,SERS			1304.37 42		011333.40

19-5 ✓

Handwritten mark

L%U□,FK0	-	AE ON	F202A7	22005.40	60	011334.00
Z,\$IND				13.22	00	011334.40
K%U□,FK105				22312.41	20	011335.00
SIC,SEN				1310.00	80	011335.40
	BZAE,SERS-ERROR IF AE IND.OFF AND			1304.36	C0	011336.00
SIC,SEN				1310.00	80	011336.40
	BAL,SERS-OTHER COMPARISON INDS.ON.			1304.36	42	011337.00
SIC,SEN				1310.00	80	011337.40
	BAH,SERS			1304.37	42	011340.00
L%U□,FK23	- XFP RNG FRACT +	AE ON	F202A8	22171.40	60	011340.40
Z,\$IND				13.22	00	011341.00
K%U□,FK24-XFP RANGE,FRACT.+				22172.41	20	011341.40
SIC,SEN				1310.00	80	011342.00
	BZAE,SERS-ERROR IF AE OFF AND AL,OR AH ON			1304.36	C0	011342.40
SIC,SEN				1310.00	80	011343.00
	BAL,SERS			1304.36	42	011343.40
SIC,SEN				1310.00	80	011344.00
	BAH,SERS			1304.37	42	011344.40
L%U□,FK23	- XFP RNG FRACT +	AH ON	F202A9	22171.40	60	011345.00
Z,\$IND				13.22	00	011345.40
K%U□,FK22-N RANGE,FRACT.+				22170.41	20	011346.00
SIC,SEN				1310.00	80	011346.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON			1304.37	40	011347.00
SIC,SEN				1310.00	80	011347.40
	BAL,SERS			1304.36	42	011350.00
SIC,SEN				1310.00	80	011350.40
	BAE,SERS			1304.36	C2	011351.00
L%U□,FK23	- XFP RNG FRACT +	AH ON	F202A10	22171.40	60	011351.40
Z,\$IND				13.22	00	011352.00
K%U□,FK2-XFN RANGE,FRACT.+				22007.41	20	011352.40
SIC,SEN				1310.00	80	011353.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON			1304.37	40	011353.40
SIC,SEN				1310.00	80	011354.00
	BAL,SERS			1304.36	42	011354.40
SIC,SEN				1310.00	80	011355.00
	BAE,SERS			1304.36	C2	011355.40
L%U□,FK23	- XFP RNG FRACT +	AH ON	F202A11	22171.40	60	011356.00
Z,\$IND				13.22	00	011356.40
K%U□,FK1-XFN RANGE,FRACT.-				22006.41	20	011357.00
SIC,SEN				1310.00	80	011357.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON			1304.37	40	011360.00
SIC,SEN				1310.00	80	011360.40
	BAL,SERS			1304.36	42	011361.00
SIC,SEN				1310.00	80	011361.40
	BAE,SERS			1304.36	C2	011362.00
L%U□,FK23	- XFP RNG FRACT +	AH ON	F202A12	22171.40	60	011362.40
Z,\$IND				13.22	00	011363.00
K%U□,FK43-N RANGE,FRACT.-				22060.41	20	011363.40
SIC,SEN				1310.00	80	011364.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON			1304.37	40	011364.40
SIC,SEN				1310.00	80	011365.00
	BAL,SERS			1304.36	42	011365.40
SIC,SEN				1310.00	80	011366.00
	BAE,SERS			1304.36	C2	011366.40
L%U□,FK23	- XFP RNG FRACT +	AH ON	F202A13	22171.40	60	011367.00
Z,\$IND				13.22	00	011367.40
K%U□,FK40-XFP RANGE,FRACT.-				22212.41	20	011370.00
SIC,SEN				1310.00	80	011370.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON			1304.37	40	011371.00
SIC,SEN				1310.00	80	011371.40
	BAL,SERS			1304.36	42	011372.00
SIC,SEN				1310.00	80	011372.40
	BAE,SERS			1304.36	C2	011373.00
L%U□,FK21	- N RNG G FRACT +	AL ON	F202A14	22032.40	60	011373.40
Z,\$IND				13.22	00	011374.00
K%U□,FK23-XFP RANGE,FRACT.+				22171.41	20	011374.40

SIC,SEN		1310.00	80			011375.00
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40			011375.40
SIC,SEN	BAE,SERS	1310.00	80			011376.00
		1304.36	C2			011376.40
SIC,SEN	BAH,SERS	1310.00	80			011377.00
		1304.37	42			011377.40
L%U□,FPK21	- N RNG G FRACT + AH ON F202A15	22032.40	60			011400.00
Z,\$IND		13.22	00			011400.40
K%U□,FPK27-XFN RANGE,FRACT.+		22040.41	20			011401.00
SIC,SEN		1310.00	80			011401.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011402.00
SIC,SEN		1310.00	80			011402.40
	BAL,SERS	1304.36	42			011403.00
SIC,SEN		1310.00	80			011403.40
	BAE,SERS	1304.36	C2			011404.00
L%U□,FPK21	- N RNG G FRACT + AH ON F202A16	22032.40	60			011404.40
Z,\$IND		13.22	00			011405.00
K%U□,FPK1-XFN RANGE,FRACT.-		22006.41	20			011405.40
SIC,SEN		1310.00	80			011406.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011406.40
SIC,SEN		1310.00	80			011407.00
	BAL,SERS	1304.36	42			011407.40
SIC,SEN		1310.00	80			011410.00
	BAE,SERS	1304.36	C2			011410.40
L%U□,FPK21	- N RNG G FRACT + AH ON F202A17	22032.40	60			011411.00
Z,\$IND		13.22	00			011411.40
K%U□,FK34-N RANGE,FRACT.-		22204.41	20			011412.00
SIC,SEN		1310.00	80			011412.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011413.00
SIC,SEN		1310.00	80			011413.40
	BAL,SERS	1304.36	42			011414.00
SIC,SEN		1310.00	80			011414.40
	BAE,SERS	1304.36	C2			011415.00
L%U□,FPK21	- N RNG G FRACT + AH ON F202A18	22032.40	60			011415.40
Z,\$IND		13.22	00			011416.00
K%U□,FK40-XFP RANGE,FRACT.-		22212.41	20			011416.40
SIC,SEN		1310.00	80			011417.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011417.40
SIC,SEN		1310.00	80			011420.00
	BAL,SERS	1304.36	42			011420.40
SIC,SEN		1310.00	80			011421.00
	BAE,SERS	1304.36	C2			011421.40
L%U□,FPK2	- XFN RNG FRACT + AL ON F202A19	22007.40	60			011422.00
Z,\$IND		13.22	00			011422.40
K%U□,FPK26-XFP RANGE,FRACT.+		22037.41	20			011423.00
SIC,SEN		1310.00	80			011423.40
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40			011424.00
SIC,SEN		1310.00	80			011424.40
	BAE,SERS	1304.36	C2			011425.00
SIC,SEN		1310.00	80			011425.40
	BAH,SERS	1304.37	42			011426.00
L%U□,FPK2	- XFN RNG FRACT + AL ON F202A20	22007.40	60			011426.40
Z,\$IND		13.22	00			011427.00
K%U□,FPK21-N RANGE,FRACT.+		22032.41	20			011427.40
SIC,SEN		1310.00	80			011430.00
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40			011430.40
SIC,SEN		1310.00	80			011431.00
	BAE,SERS	1304.36	C2			011431.40
SIC,SEN		1310.00	80			011432.00
	BAH,SERS	1304.37	42			011432.40
L%U□,FPK2	- XFN RNG FRACT + AE ON F202A21	22007.40	60			011433.00
Z,\$IND		13.22	00			011433.40
K%U□,FK25-XFN RANGE,FRACT.+		22173.41	20			011434.00
SIC,SEN		1310.00	80			011434.40
	BZAE,SERS-ERROR IF AE OFF AND AL OR AH ON	1304.36	C0			011435.00
SIC,SEN		1310.00	80			011435.40

SIC,SEN		1310.00	80			011375.00
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40			011375.40
SIC,SEN	BAE,SERS	1310.00	80			011376.00
		1304.36	C2			011376.40
SIC,SEN	BAH,SERS	1310.00	80			011377.00
		1304.37	42			011377.40
L%U□,FPK21	- N RNG G FRACT + AH ON F202A15	22032.40	60			011400.00
Z,\$IND		13.22	00			011400.40
K%U□,FPK27-XFN RANGE,FRACT.+		22040.41	20			011401.00
SIC,SEN		1310.00	80			011401.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011402.00
SIC,SEN		1310.00	80			011402.40
	BAL,SERS	1304.36	42			011403.00
SIC,SEN		1310.00	80			011403.40
	BAE,SERS	1304.36	C2			011404.00
L%U□,FPK21	- N RNG G FRACT + AH ON F202A16	22032.40	60			011404.40
Z,\$IND		13.22	00			011405.00
K%U□,FPK1-XFN RANGE,FRACT.-		22006.41	20			011405.40
SIC,SEN		1310.00	80			011406.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011406.40
SIC,SEN		1310.00	80			011407.00
	BAL,SERS	1304.36	42			011407.40
SIC,SEN		1310.00	80			011410.00
	BAE,SERS	1304.36	C2			011410.40
L%U□,FPK21	- N RNG G FRACT + AH ON F202A17	22032.40	60			011411.00
Z,\$IND		13.22	00			011411.40
K%U□,FK34-N RANGE,FRACT.-		22204.41	20			011412.00
SIC,SEN		1310.00	80			011412.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011413.00
SIC,SEN		1310.00	80			011413.40
	BAL,SERS	1304.36	42			011414.00
SIC,SEN		1310.00	80			011414.40
	BAE,SERS	1304.36	C2			011415.00
L%U□,FPK21	- N RNG G FRACT + AH ON F202A18	22032.40	60			011415.40
Z,\$IND		13.22	00			011416.00
K%U□,FK40-XFP RANGE,FRACT.-		22212.41	20			011416.40
SIC,SEN		1310.00	80			011417.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40			011417.40
SIC,SEN		1310.00	80			011420.00
	BAL,SERS	1304.36	42			011420.40
SIC,SEN		1310.00	80			011421.00
	BAE,SERS	1304.36	C2			011421.40
L%U□,FPK2	- XFN RNG FRACT + AL ON F202A19	22007.40	60			011422.00
Z,\$IND		13.22	00			011422.40
K%U□,FPK26-XFP RANGE,FRACT.+		22037.41	20			011423.00
SIC,SEN		1310.00	80			011423.40
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40			011424.00
SIC,SEN		1310.00	80			011424.40
	BAE,SERS	1304.36	C2			011425.00
SIC,SEN		1310.00	80			011425.40
	BAH,SERS	1304.37	42			011426.00
L%U□,FPK2	- XFN RNG FRACT + AL ON F202A20	22007.40	60			011426.40
Z,\$IND		13.22	00			011427.00
K%U□,FPK21-N RANGE,FRACT.+		22032.41	20			011427.40
SIC,SEN		1310.00	80			011430.00
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40			011430.40
SIC,SEN		1310.00	80			011431.00
	BAE,SERS	1304.36	C2			011431.40
SIC,SEN		1310.00	80			011432.00
	BAH,SERS	1304.37	42			011432.40
L%U□,FPK2	- XFN RNG FRACT + AE ON F202A21	22007.40	60			011433.00
Z,\$IND		13.22	00			011433.40
K%U□,FK25-XFN RANGE,FRACT.+		22173.41	20			011434.00
SIC,SEN		1310.00	80			011434.40
	BZAE,SERS-ERROR IF AE OFF AND AL OR AH ON	1304.36	C0			011435.00
SIC,SEN		1310.00	80			011435.40

SIC,SEN		1310.00	80	011375.00
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40	011375.40
SIC,SEN	BAE,SERS	1310.00	80	011376.00
		1304.36	C2	011376.40
SIC,SEN	BAH,SERS	1310.00	80	011377.00
		1304.37	42	011377.40
L%U□,FPK21	- N RNG G FRACT + AH ON F202A15	22032.40	60	011400.00
Z,\$IND		13.22	00	011400.40
K%U□,FPK27-XFN RANGE,FRACT.+		22040.41	20	011401.00
SIC,SEN		1310.00	80	011401.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40	011402.00
SIC,SEN		1310.00	80	011402.40
	BAL,SERS	1304.36	42	011403.00
SIC,SEN		1310.00	80	011403.40
	BAE,SERS	1304.36	C2	011404.00
L%U□,FPK21	- N RNG G FRACT + AH ON F202A16	22032.40	60	011404.40
Z,\$IND		13.22	00	011405.00
K%U□,FPK1-XFN RANGE,FRACT.-		22006.41	20	011405.40
SIC,SEN		1310.00	80	011406.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40	011406.40
SIC,SEN		1310.00	80	011407.00
	BAL,SERS	1304.36	42	011407.40
SIC,SEN		1310.00	80	011410.00
	BAE,SERS	1304.36	C2	011410.40
L%U□,FPK21	- N RNG G FRACT + AH ON F202A17	22032.40	60	011411.00
Z,\$IND		13.22	00	011411.40
K%U□,FK34-N RANGE,FRACT.-		22204.41	20	011412.00
SIC,SEN		1310.00	80	011412.40
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40	011413.00
SIC,SEN		1310.00	80	011413.40
	BAL,SERS	1304.36	42	011414.00
SIC,SEN		1310.00	80	011414.40
	BAE,SERS	1304.36	C2	011415.00
L%U□,FPK21	- N RNG G FRACT + AH ON F202A18	22032.40	60	011415.40
Z,\$IND		13.22	00	011416.00
K%U□,FK40-XFP RANGE,FRACT.-		22212.41	20	011416.40
SIC,SEN		1310.00	80	011417.00
	BZAH,SERS-ERROR IF AH OFF AND AL OR AE ON	1304.37	40	011417.40
SIC,SEN		1310.00	80	011420.00
	BAL,SERS	1304.36	42	011420.40
SIC,SEN		1310.00	80	011421.00
	BAE,SERS	1304.36	C2	011421.40
L%U□,FPK2	- XFN RNG FRACT + AL ON F202A19	22007.40	60	011422.00
Z,\$IND		13.22	00	011422.40
K%U□,FPK26-XFP RANGE,FRACT.+		22037.41	20	011423.00
SIC,SEN		1310.00	80	011423.40
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40	011424.00
SIC,SEN		1310.00	80	011424.40
	BAE,SERS	1304.36	C2	011425.00
SIC,SEN		1310.00	80	011425.40
	BAH,SERS	1304.37	42	011426.00
L%U□,FPK2	- XFN RNG FRACT + AL ON F202A20	22007.40	60	011426.40
Z,\$IND		13.22	00	011427.00
K%U□,FPK21-N RANGE,FRACT.+		22032.41	20	011427.40
SIC,SEN		1310.00	80	011430.00
	BZAL,SERS-ERROR IF AL OFF AND AE OR AH ON	1304.36	40	011430.40
SIC,SEN		1310.00	80	011431.00
	BAE,SERS	1304.36	C2	011431.40
SIC,SEN		1310.00	80	011432.00
	BAH,SERS	1304.37	42	011432.40
L%U□,FPK2	- XFN RNG FRACT + AE ON F202A21	22007.40	60	011433.00
Z,\$IND		13.22	00	011433.40
K%U□,FK25-XFN RANGE,FRACT.+		22173.41	20	011434.00
SIC,SEN		1310.00	80	011434.40
	BZAE,SERS-ERROR IF AE OFF AND AL OR AH ON	1304.36	C0	011435.00
SIC,SEN		1310.00	80	011435.40

BAL,SERS	1304.36	42	011436.00
SIC,SEN	1310.00	80	011436.40
BAH,SERS	1304.37	42	011437.00
L%U□,FPK2 - XFN RNG FRACT + AH ON F202A22	22007.40	60	011437.40
Z,\$IND	13.22	00	011440.00
K%U□,FPK48-XFN RANGE,FRACT.-	22065.41	20	011440.40
SIC,SEN	1310.00	80	011441.00
BZAH,SERS-ERROR IF AH OFF AND OTHERS ON	1304.37	40	011441.40
SIC,SEN	1310.00	80	011442.00
BAL,SERS	1304.36	42	011442.40
SIC,SEN	1310.00	80	011443.00
BAF,SERS	1304.36	C2	011443.40
L%U□,FK30 - XFN RNG FRACT + AH ON F202A23	22200.40	60	011444.00
Z,\$IND	13.22	00	011444.40
K%U□,FK34-N RANGE,FRACT.-	22204.41	20	011445.00
SIC,SEN	1310.00	80	011445.40
BZAH,SERS-ERROR IF AH OFF AND OTHERS ON	1304.37	40	011446.00
SIC,SEN	1310.00	80	011446.40
BAL,SERS	1304.36	42	011447.00
SIC,SEN	1310.00	80	011447.40
BAE,SERS	1304.36	C2	011450.00
L%U□,FK31 - XFN RNG FRACT + AH ON F202A24	22201.40	60	011450.40
Z,\$IND	13.22	00	011451.00
K%U□,FK40-XFP RANGE,FRACT.-	22212.41	20	011451.40
SIC,SEN	1310.00	80	011452.00
BZAH,SERS-ERROR IF AH OFF AND OTHERS ON	1304.37	40	011452.40
SIC,SEN	1310.00	80	011453.00
BAL,SERS	1304.36	42	011453.40
SIC,SEN	1310.00	80	011454.00
BAE,SERS	1304.36	C2	011454.40
L%U□,FPK48 - XFN RNG FRACT - AL ON F202A25	22065.40	60	011455.00
Z,\$IND	13.22	00	011455.40
K%U□,FK36-XFP RANGE,FRACT.+	22206.41	20	011456.00
SIC,SEN	1310.00	80	011456.40
BZAL,SERS-ERROR IF AL OFF AND OTHERS ON	1304.36	40	011457.00
SIC,SEN	1310.00	80	011457.40
BAE,SERS	1304.36	C2	011460.00
SIC,SEN	1310.00	80	011460.40
BAH,SERS	1304.37	42	011461.00
L%U□,FPK1 - XFN RNG FRACT - AL ON F202A26	22006.40	60	011461.40
Z,\$IND	13.22	00	011462.00
K%U□,FPK4-N RANGE,FRACT.+	22011.41	20	011462.40
SIC,SEN	1310.00	80	011463.00
BZAL,SERS-ERROR IF AL OFF AND OTHERS ON	1304.36	40	011463.40
SIC,SEN	1310.00	80	011464.00
BAE,SERS	1304.36	C2	011464.40
SIC,SEN	1310.00	80	011465.00
BAH,SERS	1304.37	42	011465.40
L%U□,FPK1 - XFN RNG FRACT - AL ON F202A27	22006.40	60	011466.00
Z,\$IND	13.22	00	011466.40
K%U□,FK25-XFN RANGE,FRACT.+	22173.41	20	011467.00
SIC,SEN	1310.00	80	011467.40
BZAL,SERS-ERROR IF AL OFF AND OTHERS ON	1304.36	40	011470.00
SIC,SEN	1310.00	80	011470.40
BAE,SERS	1304.36	C2	011471.00
SIC,SEN	1310.00	80	011471.40
BAH,SERS	1304.37	42	011472.00
L%U□,FPK1 - XFN RNG FRACT - AE ON F202A28	22006.40	60	011472.40
Z,\$IND	13.22	00	011473.00
K%U□,FPK48-XFN RANGE,FRACT.-	22065.41	20	011473.40
SIC,SEN	1310.00	80	011474.00
BZAE,SERS	1304.36	C0	011474.40
SIC,SEN	1310.00	80	011475.00
BAL,SERS	1304.36	42	011475.40
SIC,SEN	1310.00	80	011476.00
BAH,SERS	1304.37	42	011476.40

L%U□, FPK1	- XFN RNG	FRACT -	AH ON	F202A29	22006.40	60	011477.00
Z, \$IND					13.22	00	011477.40
K%U□, FPK23-N RANGE, FRACT.-					22034.41	20	011500.00
SIC, SEN					1310.00	80	011500.40
BZAH, SERS					1304.37	40	011501.00
SIC, SEN					1310.00	80	011501.40
BAL, SERS					1304.36	42	011502.00
SIC, SEN					1310.00	80	011502.40
BAE, SERS					1304.36	C2	011503.00
L%U□, FPK48	- XFN RNG	FRACT -	AH ON	F202A30	22065.40	60	011503.40
Z, \$IND					13.22	00	011504.00
K%U□, FK40-XFP RANGE, FRACT.-					22212.41	20	011504.40
SIC, SEN					1310.00	80	011505.00
BZAH, SERS					1304.37	40	011505.40
SIC, SEN					1310.00	80	011506.00
BAL, SERS					1304.36	42	011506.40
SIC, SEN					1310.00	80	011507.00
BAE, SERS					1304.36	C2	011507.40
L%U□, FPK43	- XFN RNG	FRACT -	AL ON	F202A31	22060.40	60	011510.00
Z, \$IND					13.22	00	011510.40
K%U□, FPK26-XFP RANGE, FRACT.+					22037.41	20	011511.00
SIC, SEN					1310.00	80	011511.40
BZAL, SERS					1304.36	40	011512.00
SIC, SEN					1310.00	80	011512.40
BAE, SERS					1304.36	C2	011513.00
SIC, SEN					1310.00	80	011513.40
BAH, SERS					1304.37	42	011514.00
L%U□, FPK43	- N RNG	FRACT -	AL ON	F202A32	22060.40	60	011514.40
Z, \$IND					13.22	00	011515.00
K%U□, FPK39-N RANGE, FRACT.+					22054.41	20	011515.40
SIC, SEN					1310.00	80	011516.00
BZAL, SERS					1304.36	40	011516.40
SIC, SEN					1310.00	80	011517.00
BAE, SERS					1304.36	C2	011517.40
SIC, SEN					1310.00	80	011520.00
BAH, SERS					1304.37	42	011520.40
L%U□, FPK40	- N RNG	FRACT -	AL ON	F202A33	22055.40	60	011521.00
Z, \$IND					13.22	00	011521.40
K%U□, FPK27-XFN RANGE, FRACT.+					22040.41	20	011522.00
SIC, SEN					1310.00	80	011522.40
BZAL, SERS					1304.36	40	011523.00
SIC, SEN					1310.00	80	011523.40
BAE, SERS					1304.36	C2	011524.00
SIC, SEN					1310.00	80	011524.40
BAH, SERS					1304.37	42	011525.00
L%U□, FPK40	- N RNG	FRACT -	AL ON	F202A34	22055.40	60	011525.40
Z, \$IND					13.22	00	011526.00
K%U□, FPK1-XFN RANGE, FRACT.-					22006.41	20	011526.40
SIC, SEN					1310.00	80	011527.00
BZAL, SERS					1304.36	40	011527.40
SIC, SEN					1310.00	80	011530.00
BAE, SERS					1304.36	C2	011530.40
SIC, SEN					1310.00	80	011531.00
BAH, SERS					1304.37	42	011531.40
L%U□, FPK40	- N RNG	FRACT -	AH ON	F202A35	22055.40	60	011532.00
Z, \$IND					13.22	00	011532.40
K%U□, FK40					22212.41	20	011533.00
SIC, SEN					1310.00	80	011533.40
BZAH, SERS					1304.37	40	011534.00
SIC, SEN					1310.00	80	011534.40
BAL, SERS					1304.36	42	011535.00
SIC, SEN					1310.00	80	011535.40
BAE, SERS					1304.36	C2	011536.00
L%U□, FK40	- XFP RNG	FRACT -	AL ON	F202A36	22212.40	60	011536.40
Z, \$IND					13.22	00	011537.00
K%U□, FK23-XFP RANGE, FRACT.+					22171.41	20	011537.40

SIC,SEN						1310.00	80	011540.00
	BZAL,SERS					1304.36	40	011540.40
SIC,SEN						1310.00	80	011541.00
	BAE,SERS					1304.36	C2	011541.40
SIC,SEN						1310.00	80	011542.00
	BAH,SERS					1304.37	42	011542.40
L%U□,FK40		- XFP RNG	FRACT -	AL ON	F202A37	22212.40	60	011543.00
Z,\$IND						13.22	00	011543.40
K%U□,FK38-N RANGE,FRACT.+						22210.41	20	011544.00
SIC,SEN						1310.00	80	011544.40
	BZAL,SERS					1304.36	40	011545.00
SIC,SEN						1310.00	80	011545.40
	BAE,SERS					1304.36	C2	011546.00
SIC,SEN						1310.00	80	011546.40
	BAH,SERS					1304.37	42	011547.00
L%U□,FK40		- XFP RNG	FRACT -	AL ON	F202A38	22212.40	60	011547.40
Z,\$IND						13.22	00	011550.00
K%U□,FK30-XFN RANGE,FRACT.+						22200.41	20	011550.40
SIC,SEN						1310.00	80	011551.00
	BZAL,SERS					1304.36	40	011551.40
SIC,SEN						1310.00	80	011552.00
	BAE,SERS					1304.36	C2	011552.40
SIC,SEN						1310.00	80	011553.00
	BAH,SERS					1304.37	42	011553.40
L%U□,FK40		- XFP RNG	FRACT -	AL ON	F202A39	22212.40	60	011554.00
Z,\$IND						13.22	00	011554.40
K%U□,FK1-XFN RANGE,FRACT.-						22006.41	20	011555.00
SIC,SEN						1310.00	80	011555.40
	BZAL,SERS					1304.36	40	011556.00
SIC,SEN						1310.00	80	011556.40
	BAE,SERS					1304.36	C2	011557.00
SIC,SEN						1310.00	80	011557.40
	BAH,SERS					1304.37	42	011560.00
L%U□,FK40		- XFP RNG	FRACT -	AL ON	F202A40	22212.40	60	011560.40
Z,\$IND						13.22	00	011561.00
K%U□,FK23-N RANGE,FRACT.-						22034.41	20	011561.40
SIC,SEN						1310.00	80	011562.00
	BZAL,SERS					1304.36	40	011562.40
SIC,SEN						1310.00	80	011563.00
	BAE,SERS					1304.36	C2	011563.40
SIC,SEN						1310.00	80	011564.00
	BAH,SERS					1304.37	42	011564.40
L%U□,FK40		- XFP RNG	FRACT -	AL ON	F202A41	22212.40	60	011565.00
Z,\$IND						13.22	00	011565.40
K%U□,FK40-XFP RANGE,FRACT.-						22212.41	20	011566.00
SIC,SEN						1310.00	80	011566.40
	BZAE,SERS					1304.36	C0	011567.00
SIC,SEN						1310.00	80	011567.40
	BAL,SERS					1304.36	42	011570.00
SIC,SEN						1310.00	80	011570.40
	BAH,SERS					1304.37	42	011571.00
BD,\$+1.0						11572.44	00	011571.40
	B,FC1					11275.50	00	011572.00
SIC,SEN0+.32						1311.40	80	011572.40
	B,SSW		-TO SSIP			1301.10	00	011573.00

----F202B---COMPARE SIGN + MOD COMBS
 -MS+MEM,SIGN,ACS+ACC,SIGN,N AND A ARE MODIFIERS

F202B	BD,\$+.32				11574.04 00	011573.40
	L%U□,FKP3	- MS+ACS+N+A+0		F202B1	22010.40 60	011574.00
	Z,\$IND				13.22 00	011574.40
	K%U□,FKP9				22016.41 20	011575.00
	SIC,SEN				1310.00 80	011575.40
	BZAH,SERS				1304.37 40	011576.00
	L%U□,FKP3	- MS+ACS+N+0 A+1		F202B2	22010.40 60	011576.40
	Z,\$IND				13.22 00	011577.00
	KA%U□,FKP9				22016.61 20	011577.40
	SIC,SEN				1310.00 80	011600.00
	BZAH,SERS				1304.37 40	011600.40
	L%U□,FKP3	- MS+ACS+A+0 N+1		F202B3	22010.40 60	011601.00
	Z,\$IND				13.22 00	011601.40
	KN%U□,FKP9				22016.51 20	011602.00
	SIC,SEN				1310.00 80	011602.40
	BZAH,SERS				1304.37 40	011603.00
	L%U□,FKP3	- MS+ACS+0 N+A+1		F202B4	22010.40 60	011603.40
	Z,\$IND				13.22 00	011604.00
	KNA%U□,FKP9				22016.71 20	011604.40
	SIC,SEN				1310.00 80	011605.00
	BZAH,SERS				1304.37 40	011605.40
	L%U□,FK41	- MS+N+A+0 ACS+1		F202B5	22213.40 60	011606.00
	Z,\$IND				13.22 00	011606.40
	K%U□,FKP9				22016.41 20	011607.00
	SIC,SEN				1310.00 80	011607.40
	BZAL,SERS				1304.36 40	011610.00
	L%U□,FK41	- MS+N+0 ACS+A+1		F202B6	22213.40 60	011610.40
	L%U□,FK41				22213.40 60	011611.00
	Z,\$IND				13.22 00	011611.40
	KA%U□,FKP9				22016.61 20	011612.00
	SIC,SEN				1310.00 80	011612.40
	BZAL,SERS				1304.36 40	011613.00
	L%U□,FK41	- MS+A+0 ACS+N+1		F202B7	22213.40 60	011613.40
	Z,\$IND				13.22 00	011614.00
	KN%U□,FKP9				22016.51 20	011614.40
	SIC,SEN				1310.00 80	011615.00
	BZAL,SERS				1304.36 40	011615.40
	L%U□,FK41	- MS+0 ACS+N+A+1		F202B8	22213.40 60	011616.00
	Z,\$IND				13.22 00	011616.40
	KNA%U□,FKP9				22016.71 20	011617.00
	SIC,SEN				1310.00 80	011617.40
	BZAL,SERS				1304.36 40	011620.00
	L%U□,FKP3	- MS+1 ACS+N+A+0		F202B9	22010.40 60	011620.40
	Z,\$IND				13.22 00	011621.00
	K%U□,FK42-MEM.SIGN NEGATIVE.				22214.41 20	011621.40
	SIC,SEN				1310.00 80	011622.00
	BZAH,SERS				1304.37 40	011622.40
	L%U□,FKP3	- MS+A+1 ACS+N+0		F202B10	22010.40 60	011623.00
	Z,\$IND				13.22 00	011623.40
	KA%U□,FK42				22214.61 20	011624.00
	SIC,SEN				1310.00 80	011624.40
	BZAH,SERS				1304.37 40	011625.00
	L%U□,FKP3	- MS+N+1 ACS+A+0		F202B11	22010.40 60	011625.40
	Z,\$IND				13.22 00	011626.00
	KN%U□,FK42				22214.51 20	011626.40
	SIC,SEN				1310.00 80	011627.00
	BZAH,SERS				1304.37 40	011627.40
	L%U□,FKP3	- MS+N+A+1 ACS+0		F202B12	22010.40 60	011630.00
	Z,\$IND				13.22 00	011630.40

KNA%U□,FK42			22214.71	20	011631.00	
SIC,SEN			1310.00	80	011631.40	
	BZAH,SERS		1304.37	40	011632.00	
L%U□,FK41	- MS+ACS+1	N+A+0	F202B13	22213.40	60	011632.40
Z,\$IND				13.22	00	011633.00
K%U□,FK42				22214.41	20	011633.40
SIC,SEN				1310.00	80	011634.00
	BZAL,SERS			1304.36	40	011634.40
L%U□,FK41	- MS+ACS+A+1	N+0	F202B14	22213.40	60	011635.00
Z,\$IND				13.22	00	011635.40
KA%U□,FK42				22214.61	20	011636.00
SIC,SEN				1310.00	80	011636.40
	BZAL,SERS			1304.36	40	011637.00
L%U□,FK41	- MS+ACS+N+1	A+0	F202B15	22213.40	60	011637.40
Z,\$IND				13.22	00	011640.00
KN%U□,FK42				22214.51	20	011640.40
SIC,SEN				1310.00	80	011641.00
	BZAL,SERS			1304.36	40	011641.40
L%U□,FK41	- MS+ACS+A+N+1		F202B16	22213.40	60	011642.00
Z,\$IND				13.22	00	011642.40
KNA%U□,FK42				22214.71	20	011643.00
SIC,SEN				1310.00	80	011643.40
	BZAL,SERS			1304.36	40	011644.00
B,\$+1.0				11645.50	00	011644.40
	B,F202B			11573.50	00	011645.00
SIC,SEN0+.32				1311.40	80	011645.40
	B,SSW	-TO SSIP.		1301.10	00	011646.00

- ----F202C---TEST UNCHANGED REGS.

F202C	BD,\$+.32			11647.04	00		011646.40
	C1111%BU,64□,FPK1,64			22006.00	80	000040.36 70	011647.00
	C1111%BU,64□,FPK1			22006.00	80	000000.36 70	011650.00
	L%U□,FPK3			22010.40	60		011651.00
	Z,\$IND			13.22	00		011651.40
	K%U□,FPK9			22016.41	20		011652.00
	CT0110%BU,60□,FPK3,68-TEST L0-59+ORIGINAL OPERAND	F202C1		22010.00	80	074042.15 70	011652.40
	SIC,SEN			1310.00	80		011653.40
	BRGZ,SERS			1304.35	42		011654.00
	CT1010%BU,4□,FPK1,64-DOES L 60-63 REMAIN+1 S	F202C2		22006.00	80	004040.25 70	011654.40
	SIC,SEN			1310.00	80		011655.40
	BRGZ,SERS			1304.35	42		011656.00
	CT1010%BU,64□,FPK1-DOES R0-63 REMAIN+1 S	F202C3		22006.00	80	000000.25 70	011656.40
	SIC,SEN			1310.00	80		011657.40
	BRGZ,SERS			1304.35	42		011660.00
	B,\$+1.0			11661.50	00		011660.40
	B,F202C			11646.50	00		011661.00
	SIC,SEN0+.32			1311.40	80		011661.40
	B,SSW	-TO SSIP.		1301.10	00		011662.00

- ----F202D---TEST INDICATORS

F202D	BD,\$+.32			11663.04	00		011662.40
	L%U□,FPK20	- DATA FLAG %TF,UF,VF□, ON COND F202D1A		22031.40	60		011663.00
	Z,\$IND			13.22	00		011663.40
	K%U□,FPK21			22032.41	20		011664.00
	SIC,SEN			1310.00	80		011664.40
	BZTF,SERS	-ERROR IF FLAG INDICATORS NOT SET TO ONE		1304.21	C0		011665.00
	SIC,SEN			1310.00	80		011665.40
	BZUF,SERS			1304.22	40		011666.00
	SIC,SEN			1310.00	80		011666.40
	BZVF,SERS			1304.22	C0		011667.00
		- DATA FLAG %TF,UF,VF□, OFF COND F202D1B					
	L%U□,FPK21			22032.40	60		011667.40
	Z,\$IND			13.22	00		011670.00
	BB1,\$TF,\$+1.			13.43	80	011671.74 0E	011670.40
	BB1,\$UF,\$+1.			13.44	80	011672.74 0E	011671.40
	BB1,\$VF,\$+1.			13.45	80	011673.74 0E	011672.40
	K%U□,FPK20			22031.41	20		011673.40
	SIC,SEN			1310.00	80		011674.00
	BTF,SERS	-ERROR IF FLAG INDICATORS NOT SET TO ZERO		1304.21	C2		011674.40
	SIC,SEN			1310.00	80		011675.00
	BUF,SERS			1304.22	42		011675.40
	SIC,SEN			1310.00	80		011676.00
	BVF,SERS			1304.22	C2		011676.40
		- PREP SHIFT □ 48 ON COND F202D2					
	L%U□,FPK4			22011.40	60		011677.00
	Z,\$IND			13.22	00		011677.40
	K%U□,FPK37			22052.41	20		011700.00
	SIC,SEN			1310.00	80		011700.40
	BZPSH,SERS			1304.15	C0		011701.00
	B,\$+1.0			11702.50	00		011701.40
	B,F202D			11662.50	00		011702.00
	SIC,SEN0+.32			1311.40	80		011702.40
	B,SSW	-TO SSIP.		1301.10	00		011703.00

- ----F202E---TEST UNCHANGED INDICATORS
 - ARITHMETIC RESULT INDS F202E1

F202E	BD,\$+.32		11704.04 00	011703.40
	L%U# ,FPK3		22010.40 60	011704.00
	Z,\$IND		13.22 00	011704.40
	K%U# ,FPK9		22016.41 20	011705.00
	SIC,SEN		1310.00 80	011705.40
	BRGZ,SERS-ERROR IF RESULT INDS.DO NOT REMAIN+0		1304.35 42	011706.00
	SIC,SEN		1310.00 80	011706.40
	BRLZ,SERS		1304.34 42	011707.00
	SIC,SEN		1310.00 80	011707.40
	BRZ,SERS		1304.34 C2	011710.00
	SIC,SEN		1310.00 80	011710.40
	BRN,SERS		1304.35 C2	011711.00
	- EXP RNG INDS	F202E2		
	L%U# ,FPK28		22041.40 60	011711.40
	Z,\$IND		13.22 00	011712.00
	K%U# ,FPK28		22041.41 20	011712.40
	BZB,11.28,\$+2.-ERROR IF EXPONENT RANGE INDS.		13.34 80 011715.34 00	011713.00
	SIC,SEN		1310.00 80	011714.00
	B,SERS-DO NOT REMAIN + 0		1304.10 00	011714.40
	BZB,11.29,\$+2.		13.35 80 011717.34 00	011715.00
	SIC,SEN		1310.00 80	011716.00
	B,SERS		1304.10 00	011716.40
	BZB,11.30,\$+2.		13.36 80 011721.34 00	011717.00
	SIC,SEN		1310.00 80	011720.00
	B,SERS		1304.10 00	011720.40
	BZB,11.31,\$+2.		13.37 80 011723.34 00	011721.00
	SIC,SEN		1310.00 80	011722.00
	B,SERS		1304.10 00	011722.40
	BZB,11.32,\$+2.		13.40 80 011725.34 00	011723.00
	SIC,SEN		1310.00 80	011724.00
	B,SERS		1304.10 00	011724.40
	B,\$+1.0		11726.10 00	011725.00
	B,F202E		11703.50 00	011725.40
	SIC,SEN0+.32		1311.40 80	011726.00
	B,SSW -TO SSIP.		1301.10 00	011726.40

- ---F202F---COMPARE MAGNITUDE.

-OPERATION SAME AS COMPARE EXCEPT THAT THE COMPARISON
-IS PERFORMED AS IF THE SIGN OF THE ACCUMULATOR
-WERE POSITIVE.

-TESTS OF SIGN AND MODIFIER COMBINATIONS F202F
-MS+MEM,SIGN,ACS+ACC,SIGN,N AND A ARE MODIFIERS

F202F	BD,S+.32				11727.44 00	011727.00
	L%U□,FPK3	- MS+ACS+N+A+0		F202F1	22010.40 60	011727.40
	Z,\$IND				13.22 00	011730.00
	KMG%U□,FPK9				22016.43 20	011730.40
	SIC,SEN				1310.00 80	011731.00
	BZAH,SERS				1304.37 40	011731.40
		- MS+ACS+N+0	A+1	F202F2		
	L%U□,FPK3				22010.40 60	011732.00
	Z,\$IND				13.22 00	011732.40
	KMGA%U□,FPK9				22016.63 20	011733.00
	SIC,SEN				1310.00 80	011733.40
	BZAH,SERS				1304.37 40	011734.00
		- MS+ACS+A+0	N+1	F202F3		
	L%U□,FPK3				22010.40 60	011734.40
	Z,\$IND				13.22 00	011735.00
	KMGN%U□,FPK9				22016.53 20	011735.40
	SIC,SEN				1310.00 80	011736.00
	BZAH,SERS				1304.37 40	011736.40
		- MS+ACS+0	N+A+1	F202F4		
	L%U□,FPK3				22010.40 60	011737.00
	Z,\$IND				13.22 00	011737.40
	KMGNA%U□,FPK9				22016.73 20	011740.00
	SIC,SEN				1310.00 80	011740.40
	BZAH,SERS				1304.37 40	011741.00
		- MS+N+A+0	ACS+1	F202F5		
	L%U□,FK41				22213.40 60	011741.40
	Z,\$IND				13.22 00	011742.00
	KMG%U□,FPK9				22016.43 20	011742.40
	SIC,SEN				1310.00 80	011743.00
	BZAH,SERS				1304.37 40	011743.40
		- MS+N+0	ACS+A+1	F202F6		
	L%U□,FK41				22213.40 60	011744.00
	Z,\$IND				13.22 00	011744.40
	KMGA%U□,FPK9				22016.63 20	011745.00
	SIC,SEN				1310.00 80	011745.40
	BZAH,SERS				1304.37 40	011746.00
		- MS+A+0	ACS+N+1	F202F7		
	L%U□,FK41				22213.40 60	011746.40
	Z,\$IND				13.22 00	011747.00
	KMGN%U□,FPK9				22016.53 20	011747.40
	SIC,SEN				1310.00 80	011750.00
	BZAH,SERS				1304.37 40	011750.40
		- MS+0	ACS+N+A+1	F202F8		
	L%U□,FK41				22213.40 60	011751.00
	Z,\$IND				13.22 00	011751.40
	KMGNA%U□,FPK9				22016.73 20	011752.00
	SIC,SEN				1310.00 80	011752.40
	BZAH,SERS				1304.37 40	011753.00
		- MS+1	ACS+N+A+0	F202F9		
	L%U□,FPK3				22010.40 60	011753.40
	Z,\$IND				13.22 00	011754.00
	KMG%U□,FK42				22214.43 20	011754.40
	SIC,SEN				1310.00 80	011755.00

	- MS+A+1	ACS+N+0	F202F10		
L%U□,FK3				22010.40 60	011756.00
Z,\$IND				13.22 00	011756.40
KMGA%U□,FK42				22214.63 20	011757.00
SIC,SEN				1310.00 80	011757.40
BZAH,SERS				1304.37 40	011760.00
	- MS+N+1	ACS+A+0	F202F11		
L%U□,FK3				22010.40 60	011760.40
Z,\$IND				13.22 00	011761.00
KMGN%U□,FK42				22214.53 20	011761.40
SIC,SEN				1310.00 80	011762.00
BZAH,SERS				1304.37 40	011762.40
	- MS+N+A+1	ACS+0	F202F12		
L%U□,FK3				22010.40 60	011763.00
Z,\$IND				13.22 00	011763.40
KMGNA%U□,FK42				22214.73 20	011764.00
SIC,SEN				1310.00 80	011764.40
BZAH,SERS				1304.37 40	011765.00
	- MS+ACS+1	N+A+0	F202F13		
L%U□,FK41				22213.40 60	011765.40
Z,\$IND				13.22 00	011766.00
KMG%U□,FK42				22214.43 20	011766.40
SIC,SEN				1310.00 80	011767.00
BZAH,SERS				1304.37 40	011767.40
	- MS+ACS+A+1	N+0	F202F14		
L%U□,FK41				22213.40 60	011770.00
Z,\$IND				13.22 00	011770.40
KMGA%U□,FK42				22214.63 20	011771.00
SIC,SEN				1310.00 80	011771.40
BZAH,SERS				1304.37 40	011772.00 ✓
	- MS+ACS+N+1	A+0	F202F15		
L%U□,FK41				22213.40 60	011772.40
Z,\$IND				13.22 00	011773.00
KMGN%U□,FK42				22214.53 20	011773.40
SIC,SEN				1310.00 80	011774.00
BZAH,SERS				1304.37 40	011774.40
	- MS+ACS+A+A+1		F202F16		
L%U□,FK41				22213.40 60	011775.00
Z,\$IND				13.22 00	011775.40
KMGNA%U□,FK42				22214.73 20	011776.00
SIC,SEN				1310.00 80	011776.40
BZAH,SERS				1304.37 40	011777.00
B,\$+1.0				12000.50 00	011777.40
B,F202F				11727.10 00	012000.00
SIC,SEN0+.32				1311.40 80	012000.40
B,SSW		-TO SSIP.		1301.10 00	012001.00

-----F202G---COMPARE FOR RNG

F202G	BD,\$+.32			12002.04	00		012001.40
	BB1,\$AH,\$+1.0	-AH ON	F202G1	13.76	80	012003.34 OE	012002.00
	L%U□,FK23			22171.40	60		012003.00
	KR%U□,FK24			22172.41	60		012003.40
	SIC,SEN			1310.00	80		012004.00
	BZAH,SERS			1304.37	40		012004.40
		- AH IND OFF	F202G2				
	L%U□,FK23			22171.40	60		012005.00
	Z,\$IND			13.22	00		012005.40
	KR%U□,FK24			22172.41	60		012006.00
	SIC,SEN			1310.00	80		012006.40
	BAE,SERS			1304.36	C2		012007.00
		- AH IND ON	F202G3				
	BB1,\$AH,\$+1.			13.76	80	012010.74 OE	012007.40
	L%U□,FK23			22171.40	60		012010.40
	KR%U□,FK22			22170.41	60		012011.00
	SIC,SEN			1310.00	80		012011.40
	BZAH,SERS			1304.37	40		012012.00
		- AH IND OFF	F202G4				
	L%U□,FK23			22171.40	60		012012.40
	Z,\$IND			13.22	00		012013.00
	KR%U□,FK22			22170.41	60		012013.40
	SIC,SEN			1310.00	80		012014.00
	BAH,SERS			1304.37	42		012014.40
		- AH IND ON	F202G5				
	BB1,\$AH,\$+1.			13.76	80	012016.34 OE	012015.00
	L%U□,FK23			22171.40	60		012016.00
	KR%U□,FK25			22173.41	60		012016.40
	SIC,SEN			1310.00	80		012017.00
	BZAH,SERS			1304.37	40		012017.40
		- AH IND OFF	F202G6				
	L%U□,FK23			22171.40	60		012020.00
	Z,\$IND			13.22	00		012020.40
	KR%U□,FK25			22173.41	60		012021.00
	SIC,SEN			1310.00	80		012021.40
	BAH,SERS			1304.37	42		012022.00
		- AH IND ON	F202G7				
	BB1,\$AH,\$+1.			13.76	80	012023.74 OE	012022.40
	L%U□,FK22			22170.40	60		012023.40
	KR%U□,FK23			22171.41	60		012024.00
	SIC,SEN			1310.00	80		012024.40
	BZAF,SERS			1304.36	C0		012025.00
	SIC,SEN			1310.00	80		012025.40
	BAH,SERS			1304.37	42		012026.00
		- AH IND OFF	F202G8				
	L%U□,FK22			22170.40	60		012026.40
	Z,\$IND			13.22	00		012027.00
	KR%U□,FK23			22171.41	60		012027.40
	SIC,SEN			1310.00	80		012030.00
	BAL,SERS			1304.36	42		012030.40
		- AH IND ON	F202G9				
	BB1,\$AH,\$+1.			13.76	80	012032.34 OE	012031.00
	L%U□,FPK0			22005.40	60		012032.00
	KR%U□,FPK0			22005.41	60		012032.40
	SIC,SEN			1310.00	80		012033.00
	BZAH,SERS			1304.37	40		012033.40
		- AH IND OFF	F202G10				
	L%U□,FPK0			22005.40	60		012034.00
	Z,\$IND			13.22	00		012034.40
	KR%U□,FPK0			22005.41	60		012035.00

SIC,SEN			1310.00	80		012035.40
BAE,SERS			1304.36	C2		012036.00
	- AH IND ON	F202G11				
BB1,\$AH,\$+1.			13.76	80	012037.74 OE	012036.40
L%U□,FK32			22202.40	60		012037.40
KR%U□,FK34			22204.41	60		012040.00
SIC,SEN			1310.00	80		012040.40
BZAH,SERS			1304.37	40		012041.00
	- AH IND OFF	F202G12				
L%U□,FK32			22202.40	60		012041.40
Z,\$IND			13.22	00		012042.00
KR%U□,FK34			22204.41	60		012042.40
SIC,SEN			1310.00	80		012043.00
BAH,SERS			1304.37	42		012043.40
	- AH IND ON	F202G13				
BB1,\$AH,\$+1.			13.76	80	012045.34 OE	012044.00
L%U□,FK1			22006.40	60		012045.00
KR%U□,FK1			22006.41	60		012045.40
SIC,SEN			1310.00	80		012046.00
BZAH,SERS			1304.37	40		012046.40
	- AH IND OFF	F202G14				
L%U□,FK1			22006.40	60		012047.00
Z,\$IND			13.22	00		012047.40
KR%U□,FK1			22006.41	60		012050.00
SIC,SEN			1310.00	80		012050.40
BAE,SERS			1304.36	C2		012051.00
	- AH IND ON	F202G15				
BB1,\$AH,\$+1.			13.76	80	012052.74 OE	012051.40
L%U□,FK40			22212.40	60		012052.40
KR%U□,FK25			22173.41	60		012053.00
SIC,SEN			1310.00	80		012053.40
BZAE,SERS			1304.36	C0		012054.00
	- AH IND OFF	F202G16				
L%U□,FK40			22212.40	60		012054.40
Z,\$IND			13.22	00		012055.00
KR%U□,FK25			22173.41	60		012055.40
SIC,SEN			1310.00	80		012056.00
BAL,SERS			1304.36	42		012056.40
	- AH IND ON	F202G17				
BB1,\$AH,\$+1.			13.76	80	012060.34 OE	012057.00
L%U□,FK34			22204.40	60		012060.00
KR%U□,FK23			22034.41	60		012060.40
SIC,SEN			1310.00	80		012061.00
BZAH,SERS			1304.37	40		012061.40
	- AH IND OFF	F202G18				
L%U□,FK34			22204.40	60		012062.00
Z,\$IND			13.22	00		012062.40
KR%U□,FK23			22034.41	60		012063.00
SIC,SEN			1310.00	80		012063.40
BAE,SERS			1304.36	C2		012064.00
B,\$+1.			12065.50	00		012064.40
B,F202G			12001.50	00		012065.00
SIC,SEN0+.32			1311.40	80		012065.40
B,SSW	-TO SSIP.		1301.10	00		012066.00

- ---F202H---COMP. RNGE, SIGN AND MODIFIERS.
 -MS+MEM.SIGN,ACS+ACC.SIGN,N AND A ARE MODIFIERS

F202H	BD,\$+.32	- MS+ACS+N+0	A+1	F202H1	12067.04 00		012066.40
	BB1,\$AH,\$+1.0				13.76 80	012070.34 OE	012067.00
	L%U□,FPK3				22010.40 60		012070.00
	KRA%U□,FPK9				22016.61 60		012070.40
	SIC,SEN				1310.00 80		012071.00
	BZAH,SERS				1304.37 40		012071.40
	BB1,\$AH,\$+1.	- MS+ACS+0	N+A+1	F202H2	13.76 80	012073.34 OE	012072.00
	L%U□,FPK3				22010.40 60		012073.00
	KRNA%U□,FPK9				22016.71 60		012073.40
	SIC,SEN				1310.00 80		012074.00
	BZAH,SERS				1304.37 40		012074.40
	BB1,\$AH,\$+1.	- MS+N+0	ACS+A+1	F202H3	13.76 80	012076.34 OE	012075.00
	L%U□,FK41				22213.40 60		012076.00
	KRA%U□,FPK9				22016.61 60		012076.40
	SIC,SEN				1310.00 80		012077.00
	BZAE,SERS				1304.36 C0		012077.40
	BB1,\$AH,\$+1.	- MS+0	ACS+N+A+1	F202H4	13.76 80	012101.34 OE	012100.00
	L%U□,FK41				22213.40 60		012101.00
	KRNA%U□,FPK9				22016.71 60		012101.40
	SIC,SEN				1310.00 80		012102.00
	BZAE,SERS				1304.36 C0		012102.40
	BB1,\$AH,\$+1.	- MS+A+1	ACS+N+0	F202H5	13.76 80	012104.34 OE	012103.00
	L%U□,FPK3				22010.40 60		012104.00
	KRA%U□,FK42				22214.61 60		012104.40
	SIC,SEN				1310.00 80		012105.00
	BZAH,SERS				1304.37 40		012105.40
	BB1,\$AH,\$+1.	- MS+N+A+1	ACS+0	F202H6	13.76 80	012107.34 OE	012106.00
	L%U□,FPK3				22010.40 60		012107.00
	KRNA%U□,FK42				22214.71 60		012107.40
	SIC,SEN				1310.00 80		012110.00
	BZAH,SERS				1304.37 40		012110.40
	BB1,\$AH,\$+1.	- MS+ACS+A+1	N+0	F202H7	13.76 80	012112.34 OE	012111.00
	L%U□,FK41				22213.40 60		012112.00
	KRA%U□,FK42				22214.61 60		012112.40
	SIC,SEN				1310.00 80		012113.00
	BZAE,SERS				1304.36 C0		012113.40
	BB1,\$AH,\$+1.	- MS+ACS+N+A+1		F202H8	13.76 80	012115.34 OE	012114.00
	L%U□,FK41				22213.40 60		012115.00
	KRNA%U□,FK42				22214.71 60		012115.40
	SIC,SEN				1310.00 80		012116.00
	BZAE,SERS				1304.36 C0		012116.40
	B,\$+1.0				12120.10 00		012117.00
	B,F202H				12066.50 00		012117.40
	SIC,SEN0+.32				1311.40 80		012120.00
	B,SSW				1301.10 00		012120.40
		-TO	SSIP.				

---F2021---INDICATOR TEST.

F2021	BD,\$+.32			12121.44	00	012121.00
	L%U□,FPK38	- DATA FLAGS %TF,UF,VF□, ON COND	F2021	22053.40	60	012121.40
	Z,\$IND			13.22	00	012122.00
	KR%U□,FPK21			22032.41	60	012122.40
	SIC,SEN			1310.00	80	012123.00
		BZTF,SERS-ERROR IF DATA FLAG INDS.		1304.21	C0	012123.40
	SIC,SEN			1310.00	80	012124.00
		BZUF,SERS-NOT SET TO ONE		1304.22	40	012124.40
	SIC,SEN			1310.00	80	012125.00
		BZVF,SERS		1304.22	C0	012125.40
	SIC,SEN			1310.00	80	012126.00
		BAL,SERS		1304.36	42	012126.40
	B,\$+1.0			12130.10	00	012127.00
		B,F2021		12121.10	00	012127.40
	SIC,SEN0+.32			1311.40	80	012130.00
		B,SSW	-TO SSIP.	1301.10	00	012130.40

- ---F202J---COMP. MAG. FOR RANGE.
 -OPERATION SAME AS COMPARE FOR RANGE EXCEPT THAT THE
 -COMPARISON IS PERFORMED AS IF THE SIGN OF THE
 -ACCUMULATOR WERE POSITIVE.
 -MS + MEM. SIGN,ACS + ACC. SIGN, N AND A ARE MODIFIERS

-TESTS OF SIGN AND MODIFIER COMBINATIONS F202J
 - MS+ACS+N+0 A+1 F202J1

F202J	BD,\$+.32	12131.44	00		012131.00
	BB1,\$AH,\$+1.0	13.76	80	012132.74 OE	012131.40
	L%U□,FPK3	22010.40	60		012132.40
	KMGRA%U□,FPK9	22016.63	60		012133.00
	SIC,SEN	1310.00	80		012133.40
	BZAH,SERS	1304.37	40		012134.00

- MS+N+A+0 ACS+1 F202J2

	BB1,\$AH,\$+1.	13.76	80	012135.74 OE	012134.40
	L%U□,FK41	22213.40	60		012135.40
	KMGR%U□,FPK9	22016.43	60		012136.00
	SIC,SEN	1310.00	80		012136.40
	BZAH,SERS-ERROR IF AH TURNED OFF	1304.37	40		012137.00
	SIC,SEN	1310.00	80		012137.40
	BAE,SERS	1304.36	C2		012140.00

- MS+A+0 ACS+N+1 F202J3

	BB1,\$AH,\$+1.	13.76	80	012141.74 OE	012140.40
	L%U□,FK41	22213.40	60		012141.40
	KMGRN%U□,FPK9	22016.63	60		012142.00
	SIC,SEN	1310.00	80		012142.40
	BZAH,SERS-ERROR IF AH TURNED OFF	1304.37	40		012143.00
	SIC,SEN	1310.00	80		012143.40
	BAE,SERS	1304.36	C2		012144.00

- MS+0 ACS+N+A+1 F202J4

	BB1,\$AH,\$+1.	13.76	80	012145.74 OE	012144.40
	L%U□,FK41	22213.40	60		012145.40
	KMGRNA%U□,FPK9	22016.73	60		012146.00
	SIC,SEN	1310.00	80		012146.40
	BZAH,SERS	1304.37	40		012147.00
	SIC,SEN	1310.00	80		012147.40
	BAE,SERS	1304.36	C2		012150.00

- MS+ACS+1 N+A+0 F202J5

	BB1,\$AH,\$+1.	13.76	80	012151.74 OE	012150.40
	L%U□,FK41	22213.40	60		012151.40
	KMGR%U□,FK42	22214.43	60		012152.00
	SIC,SEN	1310.00	80		012152.40
	BZAH,SERS	1304.37	40		012153.00
	SIC,SEN	1310.00	80		012153.40
	BAE,SERS	1304.36	C2		012154.00

- MS+N+A+1 ACS+0 F202J6

	BB1,\$AH,\$+1.	13.76	80	012155.74 OE	012154.40
	L%U□,FPK3	22010.40	60		012155.40
	KMGRNA%U□,FK42	22214.73	60		012156.00
	SIC,SEN	1310.00	80		012156.40
	BZAH,SERS	1304.37	40		012157.00

- MS+ACS+A+1 N+0 F202J7

	BB1,\$AH,\$+1.	13.76	80	012160.74 OE	012157.40
	L%U□,FK41	22213.40	60		012160.40
	KMGRA%U□,FK42	22214.63	60		012161.00
	SIC,SEN	1310.00	80		012161.40
	BZAH,SERS	1304.37	40		012162.00
	SIC,SEN	1310.00	80		012162.40
	BAE,SERS	1304.36	C2		012163.00

- MS+ACS+N+A+1 F202J8

	BB1,\$AH,\$+1.	13.76	80	012164.74 OE	012163.40
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L%U□,FK41		22213.40	60	012164.40
KMGRNA%U□,FK42		22214.73	60	012165.00
SIC,SEN		1310.00	80	012165.40
	BZAH,SERS	1304.37	40	012166.00
SIC,SEN		1310.00	80	012166.40
	BAE,SERS	1304.36	C2	012167.00
B,\$+1.0		12170.50	00	012167.40
	B,F202J	12131.10	00	012170.00
SIC,SEN0+.32		1311.40	80	012170.40
	B,SSW -TO SSIP.	1301.10	00	012171.00

- PSH □ 48 ON COND F202K

F202K	BD,\$+.32	12172.04	00	012171.40
	Z,\$IND	13.22	00	012172.00
	BB1,\$AH,\$+1.	13.76	80	012173.74 OE
	L%U□,FPK37	22052.40	60	012173.40
	KMGR%U□,FPK4	22011.43	60	012174.00
	SIC,SEN	1310.00	80	012174.40
	BZPSH,SERS	1304.15	C0	012175.00
B,\$+1.0		12176.50	00	012175.40
	B,F202K	12171.50	00	012176.00
SIC,SEN0+.32		1311.40	80	012176.40
	B,SSW -TO SSIP	1301.10	00	012177.00

----F203 ---STORE TEST ROUTINE

FST1	BD,\$+.32			12200.04	00			012177.40
	L%BU, F203	-UPDATE IDENT.		21752.00	80	000000.20	50	012200.00
	ST%BU, DPET13			1437.00	80	000000.20	D0	012201.00
	SIC, RET1			1306.40	80			012202.00
	B, IDF1			1443.10	00			012202.40

---F203A---STORE TEST ROUTINE.

SAP4	L%BU, FPK1	-ALL ONES	F203A1	22006.00	80	000000.20	50	012203.00
	Z, \$SB			12.22	00			012204.00
	ST%U, ROS			22355.40	E0			012204.40
	CT0011%BU, ROS-DOES MEM. LOCATION CONTAIN 0 S		F203A1A	22355.00	80	000000.07	70	012205.00
	SIC, SEN			1310.00	80			012206.00
	BRGZ, SERS			1304.35	42			012206.40
	CT1010%BU, FPK1-DOES \$R REMAIN UNCHANGED		F203A1B	22006.00	80	000000.25	70	012207.00
	SIC, SEN			1310.00	80			012210.00
	BRGZ, SERS			1304.35	42			012210.40
	CT0101%BU, FPK0, 64-DOES \$L REMAIN UNCHANGED		F203A1C	22005.00	80	000040.13	70	012211.00
	SIC, SEN			1310.00	80			012212.00
	BRGZ, SERS			1304.35	42			012212.40
	CT0011%BU, 8, 10.0-DOES \$SB REMAIN UNCHANGED F203A1D			12.00	80	010000.07	70	012213.00
	SIC, SEN			1310.00	80			012214.00
	BRGZ, SERS			1304.35	42			012214.40
	L%BU, FPK1, 64		F203A2	22006.00	80	000040.20	50	012215.00
	C0011%BU, FK111			22320.00	80	000000.06	70	012216.00
	CM1111%BU, 10.0			12.00	80	000000.36	F0	012217.00
	ST%U, ROS			22355.40	E0			012220.00
	CT1100%BU, ROS - DOES MEM CONTAIN ALL ONES			22355.00	80	000000.31	70	012220.40
	SIC, SEN			1310.00	80			012221.40
	BRGZ, SERS			1304.35	42			012222.00
	CT1100%BU, \$L - DOES \$L REMAIN ONES			10.00	80	000000.31	70	012222.40
	SIC, SEN			1310.00	80			012223.40
	BRGZ, SERS			1304.35	42			012224.00
	CT0110%BU, FK111 - DOES \$R REMAIN THE SAME			22320.00	80	000000.15	70	012224.40
	SIC, SEN			1310.00	80			012225.40
	BRGZ, SERS			1304.35	42			012226.00
	CT1100%BU, 8, 10.0 - DOES \$SB REMAIN 1 S			12.00	80	010000.31	70	012226.40
	SIC, SEN			1310.00	80			012227.40
	BRGZ, SERS			1304.35	42			012230.00
	C1111%BU, 64, FPK1, 64 -ONES IN LACC		F203A3	22006.00	80	000040.36	70	012230.40
	Z, \$SB			12.22	00			012231.40
	ST%U, \$L			10.40	E0			012232.00
	CT1100%BU, 60, \$L-DOES L0-59 CONTAIN ONES			10.00	80	074000.31	70	012232.40
	SIC, SEN			1310.00	80			012233.40
	BRGZ, SERS			1304.35	42			012234.00
	CT1100%BU, 4, 8.60-DOES \$L60-63 REMAIN UNCHANGED			10.74	80	004000.31	70	012234.40
	SIC, SEN			1310.00	80			012235.40
	BRGZ, SERS -60-63 CHNGD.			1304.35	42			012236.00
	Z, \$L		F203A4	10.22	00			012236.40
	Z, \$IND			13.22	00			012237.00
	L%U, FPK2-LOAD ONES OPERAND			22007.40	60			012237.40
	ST%U, \$R-STORES OPERAND IN \$R			11.40	E0			012240.00
	BZMOP, SERS-ERROR IF MOP INDICATOR OFF			1304.33	C0			012240.40
	CT0110%BU, 8.0-CHECKS BOTH \$L AND \$R			10.00	80	000000.15	70	012241.00
	SIC, SEN			1310.00	80			012242.00
	BRGZ, SERS			1304.35	42			012242.40
	Z, \$L -CHK NORM MOD IGNORED		F203A5	10.22	00			012243.00
	L%U, FK21			22167.40	60			012243.40
	ST%U, ROS-EXPONENT 7+1023			22355.00	E0			012244.00
	CT0110%BU, 64, ROS, 64			22355.00	80	000040.15	70	012244.40

SIC,SEN			1310.00	80		012245.40
BRGZ,SERS	-FRACTION,NORMLZD.		1304.35	42		012246.00
L%BU,64,FPK6	-CHK NORM	F203A6	22013.00	80	000000.20 50	012246.40
L%U,FPK7			22014.40	60		012247.40
ST%N,ROS-EXPONENT IN NORMAL RANGE			22355.00	E0		012250.00
CT0110%BU,64,ROS			22355.00	80	000000.15 70	012250.40
SIC,SEN			1310.00	80		012251.40
BRGZ,SERS	-FRACTION NOT NORMALIZED		1304.35	42		012252.00
Z,SL	-CHK NORM MOD IGNORED	F203A7	10.22	00		012252.40
L%U,FK30			22200.40	60		012253.00
ST%N,ROS-EXPONENT%-1023			22355.00	E0		012253.40
CT0110%BU,64,ROS,64			22355.00	80	000040.15 70	012254.00
SIC,SEN			1310.00	80		012255.00
BRGZ,SERS	-FRACTION NORMLZD		1304.35	42		012255.40
BD,S+1.0			12257.04	00		012256.00
B,FST1			12177.50	00		012256.40
SIC,SEN0+.32			1311.40	80		012257.00
B,SSW	-TO SSIP		1301.10	00		012257.40

---F203B---EXP RNG INDIC TEST

F203B	BD,\$+.32			12260.44	00		012260.00
	Z,\$IND	-XFPF ON	F203B1	13.22	00		012260.40
	BZB,11.30,\$+2.			13.36	80	012263.34 00	012261.00
	SIC,SEN			1310.00	80		012262.00
	B,SERS-ANY OTHER EXPONENT IND. OFF			1304.10	00		012262.40
	BZB,11.31,\$+2.			13.37	80	012265.34 00	012263.00
	SIC,SEN			1310.00	80		012264.00
	B,SERS			1304.10	00		012264.40
	BZB,11.32,\$+2.			13.40	80	012267.34 00	012265.00
	SIC,SEN			1310.00	80		012266.00
	B,SERS			1304.10	00		012266.40
	L%U#FK22	- XPH ON	F203B2	22170.40	60		012267.00
	Z,\$IND			13.22	00		012267.40
	ST%U#ROS			22355.40	EO		012270.00
	BB,11.30,\$+2.-ERROR IF XPH INDICATOR OFF			13.36	80	012272.74 02	012270.40
	SIC,SEN			1310.00	80		012271.40
	B,SERS			1304.10	00		012272.00
	BZB,11.28,\$+2.			13.34	80	012274.74 00	012272.40
	SIC,SEN			1310.00	80		012273.40
	B,SERS			1304.10	00		012274.00
	BZB,11.31,\$+2.			13.37	80	012276.74 00	012274.40
	SIC,SEN			1310.00	80		012275.40
	B,SERS			1304.10	00		012276.00
	BZB,11.32,\$+2.			13.40	80	012300.74 00	012276.40
	SIC,SEN			1310.00	80		012277.40
	B,SERS			1304.10	00		012300.00
	L%U#FK28	- XPL ON	F203B3	22041.40	60		012300.40
	Z,\$IND			13.22	00		012301.00
	ST%U#ROS			22355.40	EO		012301.40
	BB,11.31,\$+2.-ERROR IF XPL INDICATOR OFF			13.37	80	012304.34 02	012302.00
	SIC,SEN			1310.00	80		012303.00
	B,SERS			1304.10	00		012303.40
	BZB,11.28,\$+2.			13.34	80	012306.34 00	012304.00
	SIC,SEN			1310.00	80		012305.00
	B,SERS			1304.10	00		012305.40
	BZB,11.30,\$+2.			13.36	80	012310.34 00	012306.00
	SIC,SEN			1310.00	80		012307.00
	B,SERS			1304.10	00		012307.40
	BZB,11.32,\$+2.			13.40	80	012312.34 00	012310.00
	SIC,SEN			1310.00	80		012311.00
	B,SERS			1304.10	00		012311.40
	L%U#FK39	- XPU ON	F203B4	22211.40	60		012312.00
	Z,\$IND			13.22	00		012312.40
	ST%U#ROS			22355.00	EO		012313.00
	BB,11.32,\$+2.-ERROR IF XPU INDICATOR OFF			13.40	80	012315.74 02	012313.40
	SIC,SEN			1310.00	80		012314.40
	B,SERS			1304.10	00		012315.00
	BZB,11.28,\$+2.			13.34	80	012317.74 00	012315.40
	SIC,SEN			1310.00	80		012316.40
	B,SERS			1304.10	00		012317.00
	BZB,11.30,\$+2.			13.36	80	012321.74 00	012317.40
	SIC,SEN			1310.00	80		012320.40
	B,SERS			1304.10	00		012321.00
	BZB,11.31,\$+2.			13.37	80	012323.74 00	012321.40
	SIC,SEN			1310.00	80		012322.40
	B,SERS			1304.10	00		012323.00
	B,\$+1.0			12324.50	00		012323.40
	B,F203B			12260.10	00		012324.00
	SIC,SENC+.32			1311.40	80		012324.40

----F204 ---ADD TO MEM TEST ROUTINE

----F204A---ARITHMETIC CHECKS

FAME1	BD,S+.32			12326.04	00		012325.40
	L%BU, F204			21753.00	80	000000.20 50	012326.00
	ST%BU, DPET13			1437.00	80	000000.20 D0	012327.00
	SIC, RET1			1306.40	80		012330.00
	B, IDF1			1443.10	00		012330.40
SAP5	L%BU, FK23	-EXP IN XFP RANGE	F204A1	22171.00	80	000000.20 50	012331.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012332.00
	L%U, FK24-EXP. XFP RANGE			22172.40	60		012333.00
	M+%U, ROS			22355.40	A0		012333.40
	CT0110%BU, 64, ROS			22355.00	80	000000.15 70	012334.00
	SIC, SEN			1310.00	80		012335.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012335.40
	L%BU, FK23	-EXP IN XFP RANGE	F204A2	22171.00	80	000000.20 50	012336.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012337.00
	L%U, FPK38-EXP. N RANGE			22053.40	60		012340.00
	M+%U, ROS			22355.40	A0		012340.40
	CT0110%BU, 64, ROS			22355.00	80	000000.15 70	012341.00
	SIC, SEN			1310.00	80		012342.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012342.40
	L%BU, FK23	-EXP IN XFP RANGE	F204A3	22171.00	80	000000.20 50	012343.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012344.00
	L%U, FK25-EXP. XFN RANGE			22173.40	60		012345.00
	M+%U, ROS			22355.40	A0		012345.40
	CT0110%BU, 64, ROS			22355.00	80	000000.15 70	012346.00
	SIC, SEN			1310.00	80		012347.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012347.40
	L%BU, FPK38	-EXP IN N RNG	F204A4	22053.00	80	000000.20 50	012350.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012351.00
	L%U, FK23-EXP. XFP RANGE			22171.40	60		012352.00
	M+%U, ROS			22355.40	A0		012352.40
	CT0110%BU, 64, ROS, 64			22355.00	80	000040.15 70	012353.00
	SIC, SEN			1310.00	80		012354.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012354.40
	L%BU, FPK35	-EXP IN N RANGE	F204A5	22050.00	80	000000.20 50	012355.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012356.00
	L%U, FPK39-EXP. N RANGE			22054.40	60		012357.00
	M+%U, ROS			22355.40	A0		012357.40
	L%BU, 64, FPK32			22045.00	80	000000.20 50	012360.00
	CT0110%BU, 64, ROS-CHECK RESULT EXP++2 AND FRACT+1 S			22355.00	80	000000.15 70	012361.00
	SIC, SEN			1310.00	80		012362.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012362.40
	L%BU, FPK28	-EXP IN N RNG	F204A6	22041.00	80	000000.20 50	012363.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012364.00
	L%U, FPK2-EXP. XFN RANGE			22007.40	60		012365.00
	M+%U, ROS			22355.40	A0		012365.40
	CT0110%BU, 64, ROS			22355.00	80	000000.15 70	012366.00
	SIC, SEN			1310.00	80		012367.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012367.40
	L%BU, FPK2	-EXP IN XFN RNG	F204A7	22007.00	80	000000.20 50	012370.00
	L%BU, 64, FPK2-EXP. XFN RANGE			22007.00	80	000000.20 50	012371.00
	ST%BU, 64, ROS			22355.00	80	000000.20 D0	012372.00
	L%U, FPK26-EXP. XFP RANGE			22037.40	60		012373.00
	M+%U, ROS			22355.40	A0		012373.40
	CT0110%BU, 64, ROS, 64			22355.00	80	000040.15 70	012374.00
	SIC, SEN			1310.00	80		012375.00
	BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42		012375.40

L%BU, FPK2	- EXP IN XFN RNG	F204A8	22007.00	80	000000.20	50	012376.00
ST%BU, 64, ROS			22355.00	80	000000.20	D0	012377.00
L%U, FPK32-EXP. N RANGE			22045.40	60			012400.00
M+%U, ROS			22355.40	A0			012400.40
CT0110%BU, 64, ROS, 64			22355.00	80	000040.15	70	012401.00
SIC, SEN			1310.00	80			012402.00
BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42			012402.40
L%BU, FK25	- EXP IN XFN RNG	F204A9	22173.00	80	000000.20	50	012403.00
ST%BU, 64, ROS			22355.00	80	000000.20	D0	012404.00
L%U, FK30-EXP. XFN RANGE			22200.40	60			012405.00
M+%U, ROS			22355.40	A0			012405.40
CT0110%BU, 64, ROS, 64			22355.00	80	000040.15	70	012406.00
SIC, SEN			1310.00	80			012407.00
BRGZ, SERS	-ERROR IF FRACTIONS ADDED		1304.35	42			012407.40
BD, S+1.0			12411.04	00			012410.00
B, FAME1			12325.50	00			012410.40
SIC, SEN0+.32			1311.40	80			012411.00
B, SSW			1301.10	00			012411.40

----F204B---TEST SIGN + MOD COMBS
 -MS+MEM.SIGN,ACS+ACC.SIGN,N AND A ARE MODIFIERS

FMA1	BD,S+.32				12412.44 00		012412.00
	L%BU□,FPK4	-MS,ACS,A AND N ARE 0	F204B1		22011.00 80 000000.20 50		012412.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		012413.40
	L%U□,FPK19				22030.40 60		012414.40
	M+%U□,ROS				22355.40 A0		012415.00
	L%BU□,FPK22				22033.00 80 000000.20 50		012415.40
	CT0110%BU,60□,ROS,4-RESULT FRACT.+1 S				22355.00 80 074002.15 70		012416.40
	SIC,SEN				1310.00 80		012417.40
	BRGZ,SERS				1304.35 42		012420.00
	BZB,ROS+.60,\$+2.0	- CHECK SIGN BIT + 0			22355.74 80 012422.74 00		012420.40
	SIC,SEN				1310.00 80		012421.40
	B,SERS				1304.10 00		012422.00
	L%BU□,FPK4	- MS+ACS+N+0 A+1	F204B2		22011.00 80 000000.20 50		012422.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		012423.40
	L%U□,FPK19				22030.40 60		012424.40
	M+A%U□,ROS				22355.60 A0		012425.00
	L%BU□,FPK22				22033.00 80 000000.20 50		012425.40
	CT0110%BU,60□,ROS,4-RESULT FRACT.+1 S				22355.00 80 074002.15 70		012426.40
	SIC,SEN				1310.00 80		012427.40
	BRGZ,SERS				1304.35 42		012430.00
	BZB,ROS+.60,\$+2.0	- CHECK SIGN BIT + 0			22355.74 80 012432.74 00		012430.40
	SIC,SEN				1310.00 80		012431.40
	B,SERS				1304.10 00		012432.00
	L%BU□,FPK4	- MS+ACS+A+0 N+1	F204B3		22011.00 80 000000.20 50		012432.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		012433.40
	L%U□,FPK19				22030.40 60		012434.40
	M-%U□,ROS				22355.50 A0		012435.00
	L%BU□,FPK24				22035.00 80 000000.20 50		012435.40
	CT0110%BU,60□,ROS,4-CHECK RESULT FRACT.+0101...01				22355.00 80 074002.15 70		012436.40
	SIC,SEN				1310.00 80		012437.40
	BRGZ,SERS				1304.35 42		012440.00
	BB,ROS+.60,\$+2.0	- CHECK SIGN BIT + 1			22355.74 80 012442.74 02		012440.40
	SIC,SEN				1310.00 80		012441.40
	B,SERS				1304.10 00		012442.00
	L%BU□,FPK4	- MS+ACS+0 N+A+1	F204B4		22011.00 80 000000.20 50		012442.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		012443.40
	L%U□,FPK4				22011.40 60		012444.40
	M-A%U□,ROS				22355.70 A0		012445.00
	L%BU□,FPK29				22042.00 80 000000.20 50		012445.40
	CT0110%BU,60□,ROS,4 -CHECK RESULT FRACT ALL ZEROS				22355.00 80 074002.15 70		012446.40
	SIC,SEN				1310.00 80		012447.40
	BRGZ,SERS				1304.35 42		012450.00
	BB,ROS+.60,\$+2.0	- CHECK SIGN BIT + 1			22355.74 80 012452.74 02		012450.40
	SIC,SEN				1310.00 80		012451.40
	B,SERS				1304.10 00		012452.00

	L%BU□, FPK4	- MS+N+A+0	ACS+1	F204B5	22011.00	80	000000.20	50	012452.40
	ST%BU□, ROS				22355.00	80	000000.20	D0	012453.40
	L%U□, FK43				22215.40	60			012454.40
	M+%U□, ROS				22355.40	A0			012455.00
	L%BU□, FPK4				22011.00	80	000000.20	50	012455.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+0101...01				22355.00	80	074002.15	70	012456.40
	SIC, SEN				1310.00	80			012457.40
	BRGZ, SERS				1304.35	42			012460.00
	BB, ROS+.60, \$+2.0	- CHECK SIGN BIT + 1			22355.74	80	012462.74	02	012460.40
	SIC, SEN				1310.00	80			012461.40
	B, SERS				1304.10	00			012462.00
	L%BU□, FPK4	- MS+N+0	ACS+N+1	F204B6	22011.00	80	000000.20	50	012462.40
	ST%BU□, ROS				22355.00	80	000000.20	D0	012463.40
	L%U□, FK43				22215.40	60			012464.40
	M+A%U□, ROS				22355.60	A0			012465.00
	L%BU□, FPK4				22011.00	80	000000.20	50	012465.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+0101...01				22355.00	80	074002.15	70	012466.40
	SIC, SEN				1310.00	80			012467.40
	BRGZ, SERS				1304.35	42			012470.00
	BB, ROS+.60, \$+2.0	- CHECK SIGN BIT + 1			22355.74	80	012472.74	02	012470.40
	SIC, SEN				1310.00	80			012471.40
	B, SERS				1304.10	00			012472.00
	L%BU□, FPK4	- MS+A+0	ACS+N+1	F204B7	22011.00	80	000000.20	50	012472.40
	ST%BU□, ROS				22355.00	80	000000.20	D0	012473.40
	L%U□, FK43				22215.40	60			012474.40
	M-%U□, ROS				22355.50	A0			012475.00
	L%BU□, FPK22				22033.00	80	000000.20	50	012475.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+1 S				22355.00	80	074002.15	70	012476.40
	SIC, SEN				1310.00	80			012477.40
	BRGZ, SERS				1304.35	42			012500.00
	BZB, ROS+.60, \$+2.0	-CHECK SIGN BIT+0			22355.74	80	012502.74	00	012500.40
	SIC, SEN				1310.00	80			012501.40
	B, SERS				1304.10	00			012502.00
SOR7	L%BU□, FPK4	- MS+C	ACS+N+A+1	F204B8	22011.00	80	000000.20	50	012502.40
	ST%BU□, ROS				22355.00	80	000000.20	D0	012503.40
	L%U□, FK43				22215.40	60			012504.40
	M-A%U□, ROS				22355.70	A0			012505.00
	L%BU□, FPK22				22033.00	80	000000.20	50	012505.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+1 S				22355.00	80	074002.15	70	012506.40
	SIC, SEN				1310.00	80			012507.40
	BRGZ, SERS				1304.35	42			012510.00
	BZB, ROS+.60, \$+2.0	- CHECK SIGN BIT + 0			22355.74	80	012512.74	00	012510.40
	SIC, SEN				1310.00	80			012511.40
	B, SERS				1304.10	00			012512.00
	L%BU□, FK43	- MS+1	ACS+N+A+0	F204B9	22215.00	80	000000.20	50	012512.40
	ST%BU□, ROS				22355.00	80	000000.20	D0	012513.40
	L%U□, FPK4				22011.40	60			012514.40
	M+%U□, ROS				22355.40	A0			012515.00
	L%BU□, FPK4				22011.00	80	000000.20	50	012515.40
	CT0110%BU, 60□, ROS, 4				22355.00	80	074002.15	70	012516.40
	SIC, SEN				1310.00	80			012517.40
	BRGZ, SERS	-CHECK RESULT FRACT+010101...01			1304.35	42			012520.00
	BB, ROS+.60, \$+2.0	-CHECK SIGN BIT+1			22355.74	80	012522.74	02	012520.40
	SIC, SEN				1310.00	80			012521.40
	B, SERS				1304.10	00			012522.00

L%BU□, FPK24	- MS+A+1	ACS+N+0	F204B10	22035.00	80	000000.20	50	012522.40
ST%BU□, ROS				22355.00	80	000000.20	D0	012523.40
L%U□, FPK19				22030.40	60			012524.40
M+A%U□, ROS				22355.60	A0			012525.00
L%BU□, FPK22				22033.00	80	000000.20	50	012525.40
CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT.+1 S				22355.00	80	074002.15	70	012526.40
SIC, SEN				1310.00	80			012527.40
BRGZ, SERS				1304.35	42			012530.00
BZB, ROS+.60, \$+2.0	- CHECK SIGN BIT + 0			22355.74	80	012532.74	00	012530.40
SIC, SEN				1310.00	80			012531.40
B, SERS				1304.10	00			012532.00
L%BU□, FPK24	- MS+N+1	ACS+A+0	F204B11	22035.00	80	000000.20	50	012532.40
ST%BU□, ROS				22355.00	80	000000.20	D0	012533.40
L%U□, FPK19				22030.40	60			012534.40
M-%U□, ROS				22355.50	A0			012535.00
L%BU□, FPK22				22033.00	80	000000.20	50	012535.40
CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT.+1 S				22355.00	80	074002.15	70	012536.40
SIC, SEN				1310.00	80			012537.40
BRGZ, SERS				1304.35	42			012540.00
BB, ROS+.60, \$+2.0	-CHECK SIGN BIT+1			22355.74	80	012542.74	02	012540.40
SIC, SEN				1310.00	80			012541.40
B, SERS				1304.10	00			012542.00
L%BU□, FPK24	- MS+N+A+1	ACS+0	F204B12	22035.00	80	000000.20	50	012542.40
ST%BU□, ROS				22355.00	80	000000.20	D0	012543.40
L%U□, FPK19				22030.40	60			012544.40
M-A%U□, ROS				22355.70	A0			012545.00
L%BU□, FPK24				22035.00	80	000000.20	50	012545.40
CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+0101...01				22355.00	80	074002.15	70	012546.40
SIC, SEN				1310.00	80			012547.40
BRGZ, SERS				1304.35	42			012550.00
BB, ROS+.60, \$+2.0	-CHECK SIGN BIT+1			22355.74	80	012552.74	02	012550.40
SIC, SEN				1310.00	80			012551.40
B, SERS				1304.10	00			012552.00
L%BU□, FPK24	- MS+ACS+1	N+A+0	F204B13	22035.00	80	000000.20	50	012552.40
ST%BU□, ROS				22355.00	80	000000.20	D0	012553.40
L%U□, FK43				22215.40	60			012554.40
M+%U□, ROS				22355.40	A0			012555.00
L%BU□, FPK22				22033.00	80	000000.20	50	012555.40
CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+1 S				22355.00	80	074002.15	70	012556.40
SIC, SEN				1310.00	80			012557.40
BRGZ, SERS				1304.35	42			012560.00
BB, ROS+.60, \$+2.0	- CHECK SIGN BIT + 1			22355.74	80	012562.74	02	012560.40
SIC, SEN				1310.00	80			012561.40
B, SERS				1304.10	00			012562.00
L%BU□, FPK24	- MS+ACS+A+1	N+0	F204B14	22035.00	80	000000.20	50	012562.40
ST%BU□, ROS				22355.00	80	000000.20	D0	012563.40
L%U□, FK43				22215.40	60			012564.40
M+A%U□, ROS				22355.60	A0			012565.00
L%BU□, FPK24				22035.00	80	000000.20	50	012565.40
CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT+0101...01				22355.00	80	074002.15	70	012566.40
SIC, SEN				1310.00	80			012567.40
BRGZ, SERS				1304.35	42			012570.00
BB, ROS+.60, \$+2.0	- CHECK SIGN BIT + 1			22355.74	80	012572.74	02	012570.40
SIC, SEN				1310.00	80			012571.40
B, SERS				1304.10	00			012572.00
L%BU□, FPK24	- MS+ACS+N+1	A+0	F204B15	22035.00	80	000000.20	50	012572.40
ST%BU□, ROS				22355.00	80	000000.20	D0	012573.40
L%U□, FK43				22215.40	60			012574.40
M-%U□, ROS				22355.50	A0			012575.00
L%BU□, FPK24				22035.00	80	000000.20	50	012575.40
CT0110%BU, 60□, ROS, 4-CHECK RESULT FRACT.+0101...01				22355.00	80	074002.15	70	012576.40
SIC, SEN				1310.00	80			012577.40

BRGZ,SERS			1304.35 42	012600.00
BZB,ROS+.60,S+2.0	- CHECK SIGN BIT + 0		22355.74 80 012602.74 00	012600.40
SIC,SEN			1310.00 80	012601.40
B,SERS			1304.10 00	012602.00
L%BU□,FPK24	- MS+ACS+N+A+1	F204B16	22035.00 80 000000.20 50	012602.40
ST%BU□,ROS			22355.00 80 000000.20 D0	012603.40
L%U□,FK43			22215.40 60	012604.40
M-A%U□,ROS			22355.70 A0	012605.00
L%BU□,FPK22			22033.00 80 000000.20 50	012605.40
CT0110%BU,60□,ROS,4-CHECK RESULT FRACT+1 S			22355.00 80 074002.15 70	012606.40
SIC,SEN			1310.00 80	012607.40
BRGZ,SERS			1304.35 42	012610.00
BZB,ROS+.60,S+2.0	- CHECK SIGN BIT + 0		22355.74 80 012612.74 00	012610.40
SIC,SEN			1310.00 80	012611.40
B,SERS			1304.10 00	012612.00
B,S+1.			12613.50 00	012612.40
B,FMA1			12412.10 00	012613.00
SIC,SEN0+.32			1311.40 80	012613.40
B,SSW	-	SSW	1301.10 00	012614.00

----F204C---TEST UNCHANGED REGS

FMA3	BD,\$+.32				12615.04	00			012614.40
	L%BU,FPK2	-ZEROS REMAIN ZEROS	F204C1		22007.00	80	000000.20	50	012615.00
	ST%BU,ROS				22355.00	80	000000.20	D0	012616.00
	Z,SL				10.22	00			012617.00
	Z,\$R				11.22	00			012617.40
	Z,\$SB				12.22	00			012620.00
	M+%U,ROS				22355.40	A0			012620.40
	CT0101%BU,64,FPK0,64-DOES L REMAIN+0 S F204C1A				22005.00	80	000040.13	70	012621.00
	SIC,SEN				1310.00	80			012622.00
	BRGZ,SERS				1304.35	42			012622.40
	CT0101%BU,64,FPK0-DOES R REMAIN+0 S F204C1B				22005.00	80	000000.13	70	012623.00
	SIC,SEN				1310.00	80			012624.00
	BRGZ,SERS				1304.35	42			012624.40
	CT0011%BU,8,10.0-DOES THE SB REMAIN + 0 S		F204C1C		12.00	80	010000.07	70	012625.00
	SIC,SEN				1310.00	80			012626.00
	BRGZ,SERS				1304.35	42			012626.40
	CM0000%BU,ROS	- ONES REMAIN ONES	F204C2		22355.00	80	000000.00	F0	012627.00
	C1111%BU,64,FPK1,64				22006.00	80	000040.36	70	012630.00
	C1111%BU,64,FPK1				22006.00	80	000000.36	70	012631.00
	CM1111%BU,8,10.0				12.00	80	010000.36	F0	012632.00
	M+%U,ROS				22355.40	A0			012633.00
	CT1010%BU,64,FPK1,64-DOES L REMAIN+1 S F204C2A				22006.00	80	000040.25	70	012633.40
	SIC,SEN				1310.00	80			012634.40
	BRGZ,SERS				1304.35	42			012635.00
	CT1010%BU,64,FPK1-DOES R REMAIN+1 S F204C2B				22006.00	80	000000.25	70	012635.40
	SIC,SEN				1310.00	80			012636.40
	BRGZ,SERS				1304.35	42			012637.00
	CT1100%BU,8,10.0-DOES THE SB REMAIN + 1 S		F204C2C		12.00	80	010000.31	70	012637.40
	SIC,SEN				1310.00	80			012640.40
	BRGZ,SERS				1304.35	42			012641.00
	B,\$+1.				12642.50	00			012641.40
	B,FMA3				12614.50	00			012642.00
	SIC,SEN0+.32				1311.40	80			012642.40
	B,\$SW				1301.10	00			012643.00

----F204D---IND.CATOR TESTS

FMA4	BD,\$+.32			12644.04	00			012643.40
	L%BU□,FPK4	-MOP OFF TO ON TEST	-F204D1	22011.00	80	000000.20	50	012644.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	012645.00
	L%U□,FPK19			22030.40	60			012646.00
	M+%U□,ROS			22355.40	A0			012646.40
	SIC,SEN			1310.00	80			012647.00
	BZMOP,SERS	-ERROR IF MOP OFF		1304.33	C0			012647.40
	L%BU□,FPK4	-MOP ON TO ON TEST	F204D2	22011.00	80	000000.20	50	012650.00
	L%BU□,FPK4			22011.00	80	000000.20	50	012651.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	012652.00
	L%U□,FPK19			22030.40	60			012653.00
	BB1,\$MOP,\$+1.			13.67	80	012654.74	0E	012653.40
	M+%U□,ROS			22355.40	A0			012654.40
	SIC,SEN			1310.00	80			012655.00
	BZMOP,SERS	-ERROR IF MOP OFF		1304.33	C0			012655.40
	L%BU□,FPK1		-F204D3	22006.00	80	000000.20	50	012656.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	012657.00
	L%U□,FPK1			22006.40	60			012660.00
	Z,\$IND	-RLZ AND RN OFF TO ON TEST		13.22	00			012660.40
	M+%U□,ROS			22355.40	A0			012661.00
	SIC,SEN			1310.00	80			012661.40
	BZRLZ,SERS	-ERROR IF RLZ AND RN OFF		1304.34	40			012662.00
	SIC,SEN			1310.00	80			012662.40
	BZRN,SERS			1304.35	C0			012663.00
	Z,ROS		-F204D4	22355.22	00			012663.40
	LN%U□,FPK0			22005.50	60			012664.00
	M+%U□,ROS	-RN AND RZ ON TO ON TEST		22355.40	A0			012664.40
	SIC,SEN			1310.00	80			012665.00
	BZRN,SERS	-ERROR IF RN AND RZ OFF		1304.35	C0			012665.40
	SIC,SEN			1310.00	80			012666.00
	BZRZ,SERS			1304.34	C0			012666.40
	SIC,SEN			1310.00	80			012667.00
	BRLZ,SERS	-ERROR IF RLZ AND RGZ ON		1304.34	42			012667.40
	SIC,SEN			1310.00	80			012670.00
	BRGZ,SERS			1304.35	42			012670.40
	Z,ROS	-RZ ON TO ON TEST	F204D5	22355.22	00			012671.00
	Z,\$IND			13.22	00			012671.40
	Z,10.0			12.22	00			012672.00
	Z,\$L			10.22	00			012672.40
	M+%U□,ROS			22355.40	A0			012673.00
	SIC,SEN			1310.00	80			012673.40
	BZRZ,SERS	-ERROR IF RZ OFF		1304.34	C0			012674.00
	SIC,SEN			1310.00	80			012674.40
	BRLZ,SERS	-ERROR IF RLZ,RN,RGZ ON		1304.34	42			012675.00
	SIC,SEN			1310.00	80			012675.40
	BRN,SERS			1304.35	C2			012676.00
	SIC,SEN			1310.00	80			012676.40
	BRGZ,SERS			1304.35	42			012677.00
	Z,ROS	-RGZ ON TO ON TEST	F204D6	22355.22	00			012677.40
	L%U□,FPK28			22041.40	60			012700.00
	M+%U□,ROS			22355.40	A0			012700.40
	SIC,SEN			1310.00	80			012701.00
	BZRGZ,SERS	-ERROR IF RGZ OFF		1304.35	40			012701.40
	SIC,SEN			1310.00	80			012702.00
	BRZ,SERS	-ERROR IF RZ,RN,RLZ,ON		1304.34	C2			012702.40
	SIC,SEN			1310.00	80			012703.00
	BRN,SERS			1304.35	C2			012703.40
	SIC,SEN			1310.00	80			012704.00
	BRLZ,SERS			1304.34	42			012704.40

FMA5	L%BU□, FPK4	-PSH OFF TO ON TEST	F204D7	22011.00	80	000000.20	50	012705.00
	ST%BU□, ROS			22355.00	80	000000.20	D0	012706.00
	L%U□, FPK37			22052.40	60			012707.00
	Z, \$IND			13.22	00			012707.40
	M+%U□, ROS			22355.40	A0			012710.00
	SIC, SEN			1310.00	80			012710.40
	BZPSH, SERS	-ERROR IF PSH NOT ON		1304.15	C0			012711.00
	L%BU□, FK36	- PSH OFF TO OFF TEST	F204D8	22206.00	80	000000.20	50	012711.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	012712.40
	L%U□, FK37			22207.40	60			012713.40
	Z, \$IND			13.22	00			012714.00
	M+%U□, ROS	-RESULT HAS PROPAGATED EF+1		22355.40	A0			012714.40
	SIC, SEN			1310.00	80			012715.00
	BPSH, SERS	-ERROR IF PSH CAME ON		1304.15	C2			012715.40
	L%BU□, FPK32	-LC OFF TO ON TEST	F204D9	22045.00	80	000000.20	50	012716.00
	ST%BU□, ROS			22355.00	80	000000.20	D0	012717.00
	L%U□, FPK32			22045.40	60			012720.00
	Z, \$IND			13.22	00			012720.40
	M+%U□, ROS			22355.40	A0			012721.00
	SIC, SEN			1310.00	80			012721.40
	BZLC, SERS	-ERROR IF LC OFF		1304.13	40			012722.00
	L%BU□, FPK32	-LS OFF TO ON TEST	F204D10	22045.00	80	000000.20	50	012722.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	012723.40
	LN%U□, FPK32			22045.50	60			012724.40
	Z, \$IND			13.22	00			012725.00
	M+%U□, ROS			22355.40	A0			012725.40
	SIC, SEN			1310.00	80			012726.00
	BZLS, SERS	-ERROR IF LS OFF		1304.15	40			012726.40
	L%BU□, FK 35	-LS OFF TO OFF TEST	F204D11	22205.00	80	000000.20	50	012727.00
	ST%BU□, ROS			22355.00	80	000000.20	D0	012730.00
	L%U□, FK37			22207.40	60			012731.00
	Z, \$IND			13.22	00			012731.40
	M+%U□, ROS	-ZERO FRACT. HAS PROPAGATED EF+1		22355.40	A0			012732.00
	SIC, SEN			1310.00	80			012732.40
	BLS, SERS	-ERROR IF LS ON		1304.15	42			012733.00
	-							
	-TEST EXPONENT RANGE INDICATORS							
FMA6	L%BU□, FPK26	-XFPF ON TEST	F204D12	22037.00	80	000000.20	50	012733.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	012734.40
	L%U□, FPK28			22041.40	60			012735.40
	Z, \$IND			13.22	00			012736.00
	M+%U□, ROS			22355.40	A0			012736.40
	BB, 11.28, \$+2.	-ERROR IF XFPF OFF AND,		13.34	80	012741.34	02	012737.00
	SIC, SEN			1310.00	80			012740.00
	B, SERS	-OTHER EXPONENT INDS. ON		1304.10	00			012740.40
	BZB, 11.29, \$+2.			13.35	80	012743.34	00	012741.00
	SIC, SEN			1310.00	80			012742.00
	B, SERS			1304.10	00			012742.40
	BZB, 11.30, \$+2.			13.36	80	012745.34	00	012743.00
	SIC, SEN			1310.00	80			012744.00
	B, SERS			1304.10	00			012744.40
	BZB, 11.31, \$+2.			13.37	80	012747.34	00	012745.00
	SIC, SEN			1310.00	80			012746.00
	B, SERS			1304.10	00			012746.40
	BZB, 11.32, \$+2.			13.40	80	012751.34	00	012747.00
	SIC, SEN			1310.00	80			012750.00
	B, SERS			1304.10	00			012750.40

L%BU□,FK 38
ST%BU□,ROS

-XPO ON TEST

F204D13 22210.00 80 000000.20 50
22355.00 80 000000.20 D0

012751.00
012752.00

L%U□,FK38			22210.40	60			012753.00
Z,\$IND			13.22	00			012753.40
M+%N□,ROS			22355.00	A0			012754.00
BB,11.29,\$+2.-ERROR IF XPO OFF AND			13.35	80	012756.74	02	012754.40
SIC,SEN			1310.00	80			012755.40
B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			012756.00
BZB,11.28,\$+2.			13.34	80	012760.74	00	012756.40
SIC,SEN			1310.00	80			012757.40
B,SERS			1304.10	00			012760.00
BZB,11.30,\$+2.			13.36	80	012762.74	00	012760.40
SIC,SEN			1310.00	80			012761.40
B,SERS			1304.10	00			012762.00
BZB,11.31,\$+2.			13.37	80	012764.74	00	012762.40
SIC,SEN			1310.00	80			012763.40
B,SERS			1304.10	00			012764.00
BZB,11.32,\$+2.			13.40	80	012766.74	00	012764.40
SIC,SEN			1310.00	80			012765.40
B,SERS			1304.10	00			012766.00
L%BU□,FK 22	-XPH ON TEST	F204D14	22170.00	80	000000.20	50	012766.40
ST%BU□,ROS			22355.00	80	000000.20	D0	012767.40
L%U□,FK25			22173.40	60			012770.40
Z,\$IND			13.22	00			012771.00
M+%U□,ROS			22355.40	A0			012771.40
BB,11.30,\$+2.			13.36	80	012774.34	02	012772.00
SIC,SEN			1310.00	80			012773.00
B,SERS			1304.10	00			012773.40
BZB,11.28,\$+2.-ERROR IF XPH OFF AND,			13.34	80	012776.34	00	012774.00
SIC,SEN			1310.00	80			012775.00
B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			012775.40
BZB,11.29,\$+2.			13.35	80	013000.34	00	012776.00
SIC,SEN			1310.00	80			012777.00
B,SERS			1304.10	00			012777.40
BZB,11.31,\$+2.			13.37	80	013002.34	00	013000.00
SIC,SEN			1310.00	80			013001.00
B,SERS			1304.10	00			013001.40
BZB,11.32,\$+2.			13.40	80	013004.34	00	013002.00
SIC,SEN			1310.00	80			013003.00
B,SERS			1304.10	00			013003.40
L%BU□,FK 25	-XPL ON TEST	F204D15	22173.00	80	000000.20	50	013004.00
ST%BU□,ROS			22355.00	80	000000.20	D0	013005.00
L%U□,FK28			22041.40	60			013006.00
Z,\$IND			13.22	00			013006.40
M+%U□,ROS			22355.40	A0			013007.00
BB,11.31,\$+2.-ERROR IF XPL INDICATOR OFF AND,			13.37	80	013011.74	02	013007.40
SIC,SEN			1310.00	80			013010.40
B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			013011.00
BZB,11.28,\$+2.			13.34	80	013013.74	00	013011.40
SIC,SEN			1310.00	80			013012.40
B,SERS			1304.10	00			013013.00
BZB,11.29,\$+2.			13.35	80	013015.74	00	013013.40
SIC,SEN			1310.00	80			013014.40
B,SERS			1304.10	00			013015.00
BZB,11.30,\$+2.			13.36	80	013017.74	00	013015.40
SIC,SEN			1310.00	80			013016.40
B,SERS			1304.10	00			013017.00
BZB,11.32,\$+2.			13.40	80	013021.74	00	013017.40
SIC,SEN			1310.00	80			013020.40
B,SERS			1304.10	00			013021.00

L%BU□,FK 39	-XPU ON TEST	F204D16	22211.00	80	000000.20	50	013021.40
ST%BU□,ROS			22355.00	80	000000.20	D0	013022.40
L%U□,FK39			22211.40	60			013023.40
Z,\$IND			13.22	00			013024.00
M+%N□,ROS			22355.00	A0			013024.40
BB,11.32,\$+2.-ERROR IF XPU OFF AND,			13.40	80	013027.34	02	013025.00
SIC,SEN			1310.00	80			013026.00
B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			013026.40
BZB,11.28,\$+2.			13.34	80	013031.34	00	013027.00
SIC,SEN			1310.00	80			013030.00
B,SERS			1304.10	00			013030.40
BZB,11.29,\$+2.			13.35	80	013033.34	00	013031.00
SIC,SEN			1310.00	80			013032.00
B,SERS			1304.10	00			013032.40
BZB,11.30,\$+2.			13.36	80	013035.34	00	013033.00
SIC,SEN			1310.00	80			013034.00
B,SERS			1304.10	00			013034.40
BZB,11.31,\$+2.			13.37	80	013037.34	00	013035.00
SIC,SEN			1310.00	80			013036.00
B,SERS			1304.10	00			013036.40
-							
B,\$+1.			13040.10	00			013037.00
B,FMA4			12643.50	00			013037.40
SIC,SEN0+.32			1311.40	80			013040.00
B,SSW			1301.10	00			013040.40

-TEST NORMALIZATION MODIFIER F204E

FMA7	BD,\$+.32			13041.44	00			013041.00
	L%BU□,FK21	-EXP IN XFP RANGE	F204E1	22167.00	80	000000.20	50	013041.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013042.40
	L%U□,FK21-EXP,XFP RANGE			22167.40	60			013043.40
	M+%N□,ROS			22355.00	A0			013044.00
	CT0110%BU,60□,ROS,4	- IS NORM MODIFIER IGNORED		22355.00	80	074002.15	70	013044.40
	SIC,SEN			1310.00	80			013045.40
	BRGZ,SERS	-ERROR IF RESULT NORM		1304.35	42			013046.00
	L%BU□,FK26	-EXP IN XFP RANGE	F204E2	22174.00	80	000000.20	50	013046.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013047.40
	L%U□,FK28-EXP,N RANGE			22176.40	60			013050.40
	M+%N□,ROS			22355.00	A0			013051.00
	L%BU□,FK 26			22174.00	80	000000.20	50	013051.40
	CT0110%BU,60□,ROS,4	-IS NORM MODIFIER IGNORED		22355.00	80	074002.15	70	013052.40
	SIC,SEN			1310.00	80			013053.40
	BRGZ,SERS	-ERROR IF RESULT NORM		1304.35	42			013054.00
	L%BU□,FK26	-EXP IN XFP RANGE	F204E3	22174.00	80	000000.20	50	013054.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013055.40
	L%U□,FK30-EXP,XFN RANGE			22200.40	60			013056.40
	M+%N□,ROS			22355.00	A0			013057.00
	L%BU□,FK 26			22174.00	80	000000.20	50	013057.40
	CT0110%BU,60□,ROS,4	-IS NORM MODIFIER IGNORED		22355.00	80	074002.15	70	013060.40
	SIC,SEN			1310.00	80			013061.40
	BRGZ,SERS	-ERROR IF RESULT NORM		1304.35	42			013062.00
	L%BU□,FK31	-EXP IN XFN RANGE	F204E4	22201.00	80	000000.20	50	013062.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013063.40
	L%U□,FK7-EXP,N RANGE			22014.40	60			013064.40
	M+%N□,ROS			22355.00	A0			013065.00
	L%BU□,FK6			22013.00	80	000000.20	50	013065.40
	CT0110%BU,60□,ROS,4	-RESULT SHOULD BE NORM		22355.00	80	074002.15	70	013066.40
	SIC,SEN			1310.00	80			013067.40
	BRGZ,SERS	-ERROR IF RESULT NOT NORM		1304.35	42			013070.00
	L%BU□,FK10	-EXP IN N RANGE	F204E5	22017.00	80	000000.20	50	013070.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013071.40
	L%U□,FK10-EXP,N RANGE			22017.40	60			013072.40
	M+%N□,ROS			22355.00	A0			013073.00
	L%BU□,FK44			22216.00	80	000000.20	50	013073.40
	CT0110%BU,60□,ROS,4			22355.00	80	074002.15	70	013074.40
	SIC,SEN			1310.00	80			013075.40
	BRGZ,SERS	-ERRKR IF RESULT NOT NORM		1304.35	42			013076.00
	L%BU□,FK27	-EXP IN XFN RANGE	F204E6	22040.00	80	000000.20	50	013076.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013077.40
	L%U□,FK30-EXP,XFN RANGE			22200.40	60			013100.40
	M+%N□,ROS			22355.00	A0			013101.00
	CT0110%BU,60□,ROS,68	-IS NORM MODIFIER IGNORES		22355.00	80	074042.15	70	013101.40
	SIC,SEN			1310.00	80			013102.40
	BRGZ,SERS	-ERROR IF RESULT NORM		1304.35	42			013103.00
	B,\$+1.			13104.50	00			013103.40
	B,FMA7			13041.10	00			013104.00
	SIC,SEN0+.32			1311.40	80			013104.40
	B,SSW	-	SSW	1301.10	00			013105.00

----F205 --- ADD TO MAGNITUDE TESTS

----F205 A--- ARITHMETIC CHECKS

FAMG1	BD,S+.32	13106.04	00			013105.40
	L%BU, F205	21754.00	80	000000.20	50	013106.00
	ST%BU, DPET13	1437.00	80	000000.20	D0	013107.00
	SIC, RET1	1306.40	80			013110.00
	B, IDF1	1443.10	00			013110.40
SAP6	L%U, FK40 - EXP IN XFP RNG F205A1	22212.40	60			013111.00
	+MG%U, FK24-EXP. XFP RANGE	22172.42	20			013111.40
	CT0110%BU, 60, FK40, 68-RESULT, OPND WITH HIGH XFP EXP. RANGE	22212.00	80	074042.15	70	013112.00
	SIC, SEN	1310.00	80			013113.00
	BRGZ, SERS	1304.35	42			013113.40
	B, S+.32-F205A2	13114.50	00			013114.00
	L%U, FK40-EXP. XFP RANGE	22212.40	60			013114.40
	+MG%U, FK38-EXP. N RANGE	22210.42	20			013115.00
	CT0110%BU, 60, FK40, 68-RESULT, OPND WITH XFP EXP. RANGE	22212.00	80	074042.15	70	013115.40
	SIC, SEN	1310.00	80			013116.40
	BRGZ, SERS	1304.35	42			013117.00
	B, S+.32-F205A3	13120.10	00			013117.40
	L%U, FK40-EXP. XFP RANGE	22212.40	60			013120.00
	+MG%U, FK25-EXP. XFN RANGE	22173.42	20			013120.40
	CT0110%BU, 60, FK40, 68-RESULT, OPND WITH XFP EXP. RANGE	22212.00	80	074042.15	70	013121.00
	SIC, SEN	1310.00	80			013122.00
	BRGZ, SERS	1304.35	42			013122.40
	B, S+.32-F205A4	13123.50	00			013123.00
	L%U, FK22	22170.40	60			013123.40
	+MG%U, FK36	22206.42	20			013124.00
	CT0110%BU, 60, FK36, 68-RESULT, OPND WITH XFP EXP. RANGE	22206.00	80	074042.15	70	013124.40
	SIC, SEN	1310.00	80			013125.40
	BRGZ, SERS	1304.35	42			013126.00
	B, S+.32-F205A5	13127.10	00			013126.40
	L%U, FK43-EXP. N RANGE	22215.40	60			013127.00
	+MG%U, FPK4-EXP. N RANGE	22011.42	20			013127.40
	CT0110%BU, 60, FPK22, 68-RESULT FRACT+1 S	22033.00	80	074042.15	70	013130.00
	SIC, SEN	1310.00	80			013131.00
	BRGZ, SERS	1304.35	42			013131.40
	B, S+.32-F205A6	13132.50	00			013132.00
	L%U, FK43	22215.40	60			013132.40
	+MG%U, FK25	22173.42	20			013133.00
	CT0110%BU, 60, FK43, 68-RESULT, OPND WITH N EXP. RANGE	22215.00	80	074042.15	70	013133.40
	SIC, SEN	1310.00	80			013134.40
	BRGZ, SERS	1304.35	42			013135.00
	B, S+.32-F205A7	13136.10	00			013135.40
	L%U, FK25	22173.40	60			013136.00
	+MG%U, FK40	22212.42	20			013136.40
	CT0110%BU, 12, FK40, 116 -EXP WITH XFP RANGE	22212.00	80	014072.15	70	013137.00
	CT0101%BU, 48, 0, 68 -FRACT FORCED ZERO	0.00	80	060042.13	70	013140.00
	SIC, SEN	1310.00	80			013141.00
	BRGZ, SERS	1304.35	42			013141.40
	B, S+.32-F205A8	13142.50	00			013142.00
	L%U, FPK1	22006.40	60			013142.40
	+MG%U, FPK28	22041.42	20			013143.00
	CT0110%BU, 60, FPK28, 68-RESULT, OPND WITH N EXP. RANGE	22041.00	80	074042.15	70	013143.40
	SIC, SEN	1310.00	80			013144.40
	BRGZ, SERS	1304.35	42			013145.00
	B, S+.32-F205A9	13146.10	00			013145.40
	L%U, FPK1	22006.40	60			013146.00
	+MG%U, FK25	22173.42	20			013146.40
	CT0110%BU, 60, FK25, 68-RESULT, OPND WITH LARGER EXP. RANGE	22173.00	80	074042.15	70	013147.00
	SIC, SEN	1310.00	80			013150.00
	BRGZ, SERS	1304.35	42			013150.40

B,\$+1.	13152.10 00	013151.00
B,FAMG1	13105.50 00	013151.40
SIC,SEN0+.32	1311.40 80	013152.00
B,SSW	1301.10 00	013152.40

-TESTS OF SIGN AND MODIFIER VARIATIONS F205B
 -MS+MEM,SIGN,ACS+ACC,SIGN,N AND A ARE MODIFIERS

- MS+ACS+N+A+0 F205B1

FAMG2	BD,\$+.32	13153.44 00	013153.00
	L%U□,FPK19-NUMBER,+	22030.40 60	013153.40
	+MG%U□,FPK4-NUMBER,+	22011.42 20	013154.00
	CT0110%BU,60□,FPK22,68-CHECK RESULT IN ACC.	22033.00 80 074042.15 70	013154.40
	SIC,SEN	1310.00 80	013155.40
	BRGZ,SERS	1304.35 42	013156.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013160.74 00	013156.40
	SIC,SEN	1310.00 80	013157.40
	B,SERS	1304.10 00	013160.00
	B,\$+.32-MS+ACS+N+A+0 F205B2	13161.10 00	013160.40
	L%U□,FPK4-SIGN ASSUMED POSITIVE,AC%MEM	22011.40 60	013161.00
	+MG%U□,FPK19-AUGMENT POS.NO.	22030.42 20	013161.40
	CT0110%BU,60□,FPK22,68-CHECK NUMBER IN AC.	22033.00 80 074042.15 70	013162.00
	SIC,SEN	1310.00 80	013163.00
	BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013163.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013166.34 00	013164.00
	SIC,SEN	1310.00 80	013165.00
	B,SERS	1304.10 00	013165.40
	B,\$+.32-MS+ACS+N+0,A+1 F205B3	13166.50 00	013166.00
	L%U□,FPK19-SIGN ASSUMED POSITIVE,AC%MEM	22030.40 60	013166.40
	+MGA%U□,FPK4-AUGMENT ABS.,+NO.	22011.62 20	013167.00
	CT0110%BU,60□,FPK22,68-CHECK NUMBER IN AC.	22033.00 80 074042.15 70	013167.40
	SIC,SEN	1310.00 80	013170.40
	BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013171.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013173.74 00	013171.40
	SIC,SEN	1310.00 80	013172.40
	B,SERS	1304.10 00	013173.00
	B,\$+.32-MS+ACS+N+0,A+1 F205B4	13174.10 00	013173.40
	L%U□,FPK4-SIGN ASSUMED POSITIVE,AC%MEM	22011.40 60	013174.00
	+MGA%U□,FPK19-AUGMENT ABS.,+NO.	22030.62 20	013174.40
	CT0110%BU,60□,FPK22,68-CHECK NUMBER IN AC.	22033.00 80 074042.15 70	013175.00
	SIC,SEN	1310.00 80	013176.00
	BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013176.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013201.34 00	013177.00
	SIC,SEN	1310.00 80	013200.00
	B,SERS	1304.10 00	013200.40
	B,\$+.32-MS+ACS+A+0,N+1 F205B5	13201.50 00	013201.00
	L%U□,FPK19-ACC.%MEM	22030.40 60	013201.40
	-MG%U□,FPK4-EFFECTIVE SIGN NEG.	22011.52 20	013202.00
	CT0110%BU,60□,FPK4,68-CHECK NO. IN AC.	22011.00 80 074042.15 70	013202.40
	SIC,SEN	1310.00 80	013203.40
	BRGZ,SERS	1304.35 42	013204.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013206.74 00	013204.40
	SIC,SEN	1310.00 80	013205.40
	B,SERS	1304.10 00	013206.00
	B,\$+.32-MS+ACS+A+0,N+1 F205B6	13207.10 00	013206.40
	L%U□,FPK4-ACC%MEM	22011.40 60	013207.00
	-MG%U□,FPK19-EFFECTIVE SIGN NEG.	22030.52 20	013207.40
	CT0110%BU,60□,FPK29,68-CHECK NO. IN AC.	22042.00 80 074042.15 70	013210.00
	SIC,SEN	1310.00 80	013211.00
	BRGZ,SERS	1304.35 42	013211.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013214.34 00	013212.00
	SIC,SEN	1310.00 80	013213.00
	B,SERS	1304.10 00	013213.40

B,\$+.32-MS+ACS+0,N+A+1 F205B7	13214.50 00	013214.00
LN%U□,FPK19-ACC%MEM	22030.40 60	013214.40
-MGA%U□,FPK4-EFFECTIVE SIGN OF OP.NEG.	22011.72 20	013215.00
CT0110%BU,60□,FPK4,68-CHECK NO.IN AC	22011.00 80 074042.15 70	013215.40
SIC,SEN	1310.00 80	013216.40
BRGZ,SERS	1304.35 42	013217.00
BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013221.74 00	013217.40
SIC,SEN	1310.00 80	013220.40
B,SERS	1304.10 00	013221.00
- MS+ACS+0 N+A+1 F205B8		
LN%U□,FPK4-ACC%MEM	22011.40 60	013221.40
-MGA%U□,FPK19-EFFECTIVE SIGN OF OP.NEG	22030.72 20	013222.00
CT0110%BU,60□,FPK29,68-CHECK NO.IN AC.	22042.00 80 074042.15 70	013222.40
SIC,SEN	1310.00 80	013223.40
BRGZ,SERS	1304.35 42	013224.00
BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04 80 013226.74 00	013224.40
SIC,SEN	1310.00 80	013225.40
B,SERS	1304.10 00	013226.00
B,\$+.32-MS+N+A+0,ACS+1 F205B9	13227.10 00	013226.40
LN%U□,FPK19-ACC%MEM	22030.50 60	013227.00
+MG%U□,FPK4-EFFECTIVE SIGN OF OP.POS.	22011.42 20	013227.40
CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00 80 074042.15 70	013230.00
SIC,SEN	1310.00 80	013231.00
BRGZ,SERS	1304.35 42	013231.40
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013234.34 02	013232.00
SIC,SEN	1310.00 80	013233.00
B,SERS	1304.10 00	013233.40
B,\$+.32-MS+N+A+0,ACS+1 F205B10	13234.50 00	013234.00
LN%U□,FPK4-ACC%MEM	22011.50 60	013234.40
+MG%U□,FPK19-EFFECTIVE SIGN POS.	22030.42 20	013235.00
CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00 80 074042.15 70	013235.40
SIC,SEN	1310.00 80	013236.40
BRGZ,SERS	1304.35 42	013237.00
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013241.74 02	013237.40
SIC,SEN	1310.00 80	013240.40
B,SERS	1304.10 00	013241.00
B,\$+.32-MS+N+0,ACS+A+1 F205B11	13242.10 00	013241.40
LN%U□,FPK19-ACC%MEM	22030.50 60	013242.00
+MGA%U□,FPK4-EFF.SIGN POS.	22011.62 20	013242.40
CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00 80 074042.15 70	013243.00
SIC,SEN	1310.00 80	013244.00
BRGZ,SERS	1304.35 42	013244.40
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013247.34 02	013245.00
SIC,SEN	1310.00 80	013246.00
B,SERS	1304.10 00	013246.40
B,\$+.32-MS+N+0,ACS+A+1 F205B12	13247.50 00	013247.00
LN%U□,FPK4-ACC%MEM	22011.50 60	013247.40
+MGA%U□,FPK19-EFF.SIGN OF OP.POS.	22030.62 20	013250.00
CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00 80 074042.15 70	013250.40
SIC,SEN	1310.00 80	013251.40
BRGZ,SERS	1304.35 42	013252.00
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013254.74 02	013252.40
SIC,SEN	1310.00 80	013253.40
B,SERS	1304.10 00	013254.00
B,\$+.32-MS+A+0,ACS+N+1 F205B13	13255.10 00	013254.40
LN%U□,FPK19-ACC%MEM	22030.50 60	013255.00
-MG%U□,FPK4-EFF.SIGN OF OP.,NEG.	22011.52 20	013255.40
CT0110%BU,60□,FPK4,68-CHECK NO.IN AC.	22011.00 80 074042.15 70	013256.00
SIC,SEN	1310.00 80	013257.00
BRGZ,SERS	1304.35 42	013257.40
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013262.34 02	013260.00
SIC,SEN	1310.00 80	013261.00

	B,SERS		1304.10 00	013261.40
	B,\$+.32-MS+A+0,ACS+N+1 F205B14		13262.50 00	013262.00
	LN%U□,FPK4-ACC%MEM		22011.50 60	013262.40
	-MG%U□,FPK19-EFF.SIGN NEG.		22030.52 20	013263.00
	CT0110%BU,60□,FPK29,68-CHECK NO.IN AC.		22042.00 80 074042.15 70	013263.40
	SIC,SEN		1310.00 80	013264.40
	BRGZ,SERS		1304.35 42	013265.00
	BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1		12.04 80 013267.74 02	013265.40
	SIC,SEN		1310.00 80	013266.40
	B,SERS		1304.10 00	013267.00
FAMG3	B,\$+.32 -MS IS 0, ACS, N AND A ARE 1 F205B15		13270.10 00	013267.40
	LN%U□,FPK19-ACC%MEM		22030.50 60	013270.00
	-MGA%U□,FPK4-EFF.SIGN OF OP.NEG		22011.72 20	013270.40
	CT0110%BU,60□,FPK4,68-CHECK NO.IN AC.		22011.00 80 074042.15 70	013271.00
	SIC,SEN		1310.00 80	013272.00
	BRGZ,SERS		1304.35 42	013272.40
	BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1		12.04 80 013275.34 02	013273.00
	SIC,SEN		1310.00 80	013274.00
	B,SERS		1304.10 00	013274.40
	B,\$+.32-MS+0,ACS+N+A+1 F205B16		13275.50 00	013275.00
	LN%U□,FPK4-SIGN ASSUMED POS.,AC%MEM.		22011.50 60	013275.40
	-MGA%U□,FPK19-EFF.SIGN OF OP.,NEG.		22030.72 20	013276.00
	CT0110%BU,60□,FPK29,68-CHECK NO.IN AC.		22042.00 80 074042.15 70	013276.40
	SIC,SEN		1310.00 80	013277.40
	BRGZ,SERS		1304.35 42	013300.00
	BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1		12.04 80 013302.74 02	013300.40
	SIC,SEN		1310.00 80	013301.40
	B,SERS		1304.10 00	013302.00
	B,\$+.32-MS+1,ACS+N+A+0 F205B17		13303.10 00	013302.40
	L%U□,FPK19-ACC%MEM		22030.40 60	013303.00
	+MG%U□,FPK24-EFF.SIGN OF OP.,NEG.		22035.42 20	013303.40
	CT0110%BU,60□,FPK4,68-CHECK NO.IN AC.		22011.00 80 074042.15 70	013304.00
	SIC,SEN		1310.00 80	013305.00
	BRGZ,SERS		1304.35 42	013305.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0		12.04 80 013310.34 00	013306.00
	SIC,SEN		1310.00 80	013307.00
	B,SERS		1304.10 00	013307.40
	B,\$+.32-MS+1,ACS+N+A+0 F205B18		13310.50 00	013310.00
	L%U□,FPK4-ACC%MEM		22011.40 60	013310.40
	+MG%U□,FPK23-EFF.SIGN,NEG.		22034.42 20	013311.00
	CT0110%BU,60□,FPK29,68-CHECK NO.IN AC.		22042.00 80 074042.15 70	013311.40
	SIC,SEN		1310.00 80	013312.40
	BRGZ,SERS		1304.35 42	013313.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0		12.04 80 013315.74 00	013313.40
	SIC,SEN		1310.00 80	013314.40
	B,SERS		1304.10 00	013315.00
	B,\$+.32-MS+A+1,ACS+N+0 F205B19		13316.10 00	013315.40
	L%U□,FPK19-ACC%MEM		22030.40 60	013316.00
	+MGA%U□,FPK24-EFF.SIGN,NEG.		22035.62 20	013316.40
	CT0110%BU,60□,FPK22,68-CHECK NO.IN ACC.		22033.00 80 074042.15 70	013317.00
	SIC,SEN		1310.00 80	013320.00
	BRGZ,SERS		1304.35 42	013320.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0		12.04 80 013323.34 00	013321.00
	SIC,SEN		1310.00 80	013322.00
	B,SERS		1304.10 00	013322.40

	B,\$+.32-MS+A+1,ACS+N+0 F205B20	13323.50	00		013323.00
	L%U□,FPK4-ACC%MEM	22011.40	60		013323.40
	+MGA%U□,FPK23-EFF.SIGN OF OP.POS	22034.62	20		013324.00
	CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00	80	074042.15 70	013324.40
	SIC,SEN	1310.00	80		013325.40
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013326.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04	80	013330.74 00	013326.40
	SIC,SEN	1310.00	80		013327.40
	B,SERS	1304.10	00		013330.00
	B,\$+.32-MS+N+1,ACS+A+0 F205B21	13331.10	00		013330.40
	L%U□,FPK19-ACC%MEM	22030.40	60		013331.00
	-MG%U□,FPK24-EFF.SIGN OF OP.,POS	22035.52	20		013331.40
	NOP	0.30	00		013332.00
	CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00	80	074042.15 70	013332.40
	SIC,SEN	1310.00	80		013333.40
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013334.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04	80	013336.74 00	013334.40
	SIC,SEN	1310.00	80		013335.40
	B,SERS	1304.10	00		013336.00
FAMG4	B,\$+.32 -MS AND N ARE 1, ACS AND A ARE 0 F205B22	13337.10	00		013336.40
	L%U□,FPK4-ACC%MEM	22011.40	60		013337.00
	-MG%U□,FPK23-EFF.SIGN,POS.	22034.52	20		013337.40
	CT0110%BU,60□,FPK22,68-CHECK NO.IN AC.	22033.00	80	074042.15 70	013340.00
	SIC,SEN	1310.00	80		013341.00
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013341.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04	80	013344.34 00	013342.00
	SIC,SEN	1310.00	80		013343.00
	B,SERS	1304.10	00		013343.40
	B,\$+.32-MS+N+A+1,ACS+0 F205B23	13344.50	00		013344.00
	L%U□,FPK19-ACC%MEM	22030.40	60		013344.40
	-MGA%U□,FPK24-EFF.SIGN,NEG.	22035.72	20		013345.00
	CT0110%BU,60□,FPK4,68-CHECK NO.IN AC.	22011.00	80	074042.15 70	013345.40
	SIC,SEN	1310.00	80		013346.40
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013347.00
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04	80	013351.74 00	013347.40
	SIC,SEN	1310.00	80		013350.40
	B,SERS	1304.10	00		013351.00
	B,\$+.32-MS+N+A+1,ACS+0 F205B24	13352.10	00		013351.40
	L%U□,FPK4-ACC%MEM	22011.40	60		013352.00
	-MGA%U□,FPK23-EFF.SIGN,NEG.	22034.72	20		013352.40
	CT0110%BU,60□,FPK29,68-CHECK NO.IN AC.	22042.00	80	074042.15 70	013353.00
	SIC,SEN	1310.00	80		013354.00
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013354.40
	BZB,\$SB+.4,\$+2. - IS SIGN BIT EQUAL 0	12.04	80	013357.34 00	013355.00
	SIC,SEN	1310.00	80		013356.00
	B,SERS	1304.10	00		013356.40
	B,\$+.32-MS+ACS+1,N+A+0 F205B25	13357.50	00		013357.00
	LN%U□,FPK19-ACC%MEM	22030.50	60		013357.40
	+MG%U□,FPK24-EFF.SIGN,NEG.	22035.42	20		013360.00
	CT0110%BU,60□,FPK4,68-CHECK NO.IN AC.	22011.00	80	074042.15 70	013360.40
	SIC,SEN	1310.00	80		013361.40
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013362.00
	BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04	80	013364.74 02	013362.40
	SIC,SEN	1310.00	80		013363.40
	B,SERS	1304.10	00		013364.00
FAMG5	B,\$+.32 -MS AND ACS ARE 1, N AND A ARE 0 F205B26	13365.10	00		013364.40
	LN%U□,FPK4-ACC%MEM	22011.50	60		013365.00
	+MG%U□,FPK23-EFF.SIGN,NEG.	22034.42	20		013365.40
	CT0110%BU,60□,FPK29,68-CHECK NO.IN AC.	22042.00	80	074042.15 70	013366.00
	SIC,SEN	1310.00	80		013367.00
	BRGZ,SERS-ERROR IN ARITH.	1304.35	42		013367.40
	BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04	80	013372.34 02	013370.00

SIC,SEN		1310.00	80		013371.00
	B,SERS	1304.10	00		013371.40
B,S+.32-MS+ACS+A+1,N+0 F205B27		13372.50	00		013372.00
LN%U□,FPK19-ACC□MEM		22030.50	60		013372.40
+MGA%U□,FPK24-EFF.SIGN,POS.		22035.62	20		013373.00
CTC110%BU,60□,FPK22,68-CHECK NO IN AC		22033.00	80	074042.15 70	013373.40
SIC,SEN		1310.00	80		013374.40
BRGZ,SERS-ERROR IN ARITH.		1304.35	42		013375.00
BB,\$SB+.4,S+2. -IS SIGN BIT EQUAL 1		12.04	80	013377.74 02	013375.40
SIC,SEN		1310.00	80		013376.40
	B,SERS	1304.10	00		013377.00

B,\$+.32-MS+ACS+A+1,N+0 F205B28	13400.10 00	013377.40
LN%U□,FPK4-ACC%MEM	22011.50 60	013400.00
+MGA%U□,FPK23-EFF.SIGN,NEG	22034.62 20	013400.40
CT0110%BU,60□,FPK22,68-CHECK NO. IN AC.	22033.00 80 074042.15 70	013401.00
SIC,SEN	1310.00 80	013402.00
BRGZ,SERS	1304.35 42	013402.40
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013405.34 02	013403.00
SIC,SEN	1310.00 80	013404.00
B,SERS	1304.10 00	013404.40
B,\$+.32-MS+ACS+N+1,A+0 F205B29	13405.50 00	013405.00
LN%U□,FPK19-ACC%MEM	22030.50 60	013405.40
-MG%U□,FPK24-EFF.SIGN POS.	22035.52 20	013406.00
CT0110%BU,60□,FPK22,68-CHECK NO. IN AC.	22033.00 80 074042.15 70	013406.40
SIC,SEN	1310.00 80	013407.40
BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013410.00
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013412.74 02	013410.40
SIC,SEN	1310.00 80	013411.40
B,SERS	1304.10 00	013412.00
B,\$+.32-MS+ACS+N+1,A+0 F205B30	13413.10 00	013412.40
LN%U□,FPK4-ACC%MEM	22011.50 60	013413.00
-MG%U□,FPK23-EFF.SIGN POS.	22034.52 20	013413.40
CT0110%BU,60□,FPK22,68-CHECK NO. IN AC.	22033.00 80 074042.15 70	013414.00
SIC,SEN	1310.00 80	013415.00
BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013415.40
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013420.34 02	013416.00
SIC,SEN	1310.00 80	013417.00
B,SERS	1304.10 00	013417.40
B,\$+.32-MS+ACS+N+A+1 F205B31	13420.50 00	013420.00
LN%U□,FPK19-ACC%MEM	22030.50 60	013420.40
-MGA%U□,FPK24-EFF.SIGN,NEG.	22035.72 20	013421.00
CT0110%BU,60□,FPK4,68-CHECK NO. IN AC.	22011.00 80 074042.15 70	013421.40
SIC,SEN	1310.00 80	013422.40
BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013423.00
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013425.74 02	013423.40
SIC,SEN	1310.00 80	013424.40
B,SERS	1304.10 00	013425.00
B,\$+.32-MS+ACS+N+A+1 F205B32	13426.10 00	013425.40
LN%U□,FPK4-ACC%MEM	22011.50 60	013426.00
-MGA%U□,FPK23-EFF.SIGN,NEG.	22034.72 20	013426.40
CT0110%BU,60□,FPK29,68-CHECK NO. IN ACC.	22042.00 80 074042.15 70	013427.00
SIC,SEN	1310.00 80	013430.00
BRGZ,SERS-ERROR IN ARITH.	1304.35 42	013430.40
BB,\$SB+.4,\$+2. -IS SIGN BIT EQUAL 1	12.04 80 013433.34 02	013431.00
SIC,SEN	1310.00 80	013432.00
B,SERS	1304.10 00	013432.40
-		
BD,\$+1.0	13434.04 00	013433.00
B,FAMG2	13153.10 00	013433.40
SIC,SEN0+.32	1311.40 80	013434.00
B,SSW	1301.10 00	013434.40

-TEST UNCHANGED REGISTERS F205C

FAMG6	BD,\$+.32							
		-ZEROS REMAIN ZEROS	F205C1	13435.44	00			013435.00
	C0000%BU,64,FPK0,64			22005.00	80	000040.00	70	013435.40
	C0000%BU,64,FPK0			22005.00	80	000000.00	70	013436.40
	CM0000%BU,8,10.0			12.00	80	010000.00	F0	013437.40
	L%U,FPK4			22011.40	60			013440.40
	+MG%U,FPK19			22030.42	20			013441.00
	CT0101%BU,64,FPK0-DOES R REMAIN+0 S F205C1A			22005.00	80	000000.13	70	013441.40
	SIC,SEN			1310.00	80			013442.40
	BRGZ,SERS			1304.35	42			013443.00
	CT0011%BU,4,10.0-DOES SB0-3 REMAIN+0 S F205C1B			12.00	80	004000.07	70	013443.40
	SIC,SEN			1310.00	80			013444.40
	BRGZ,SERS			1304.35	42			013445.00
	CT0011%BU,3,10.5-DOES SB5-7 REMAIN+0 S F205C1C			12.05	80	003000.07	70	013445.40
	SIC,SEN			1310.00	80			013446.40
	BRGZ,SERS			1304.35	42			013447.00
	CT0101%BU,4,FPK0,64-DOES L60-63 REMAIN+0 S F205C1D			22005.00	80	004040.13	70	013447.40
	SIC,SEN			1310.00	80			013450.40
	BRGZ,SERS			1304.35	42			013451.00
	B,\$+.32-1 S REMAIN 1 S F205C2			13452.10	00			013451.40
	C1111%BU,64,FPK1,64			22006.00	80	000040.36	70	013452.00
	C1111%BU,64,FPK1			22006.00	80	000000.36	70	013453.00
	CM1111%BU,8,10.0			12.00	80	010000.36	F0	013454.00
	L%U,FPK0			22005.40	60			013455.00
	+MG%U,FPK0			22005.42	20			013455.40
	CT1010%BU,64,FPK1-DOES R REMAIN+1 S F205C2A			22006.00	80	000000.25	70	013456.00
	SIC,SEN			1310.00	80			013457.00
	BRGZ,SERS			1304.35	42			013457.40
	CT1100%BU,4,10.0-DOES SB0-3 REMAIN+1 S F205C2B			12.00	80	004000.31	70	013460.00
	SIC,SEN			1310.00	80			013461.00
	BRGZ,SERS			1304.35	42			013461.40
	CT0011%BU,3,10.5 -DOES SB 5-7 REMAIN+1S F205C2C			12.05	80	003000.07	70	013462.00
	SIC,SEN			1310.00	80			013463.00
	BRGZ,SERS			1304.35	42			013463.40
	CT1010%BU,4,FPK1,64-DOES L60-63 REMAIN F205C2D			22006.00	80	004040.25	70	013464.00
	SIC,SEN			1310.00	80			013465.00
	BRGZ,SERS			1304.35	42			013465.40

-TEST INDICATORS F205D

	B,\$+.32-LS INDICATOR ON F205D1			13466.50	00			013466.00
	BBZ,\$LS,\$+1.			13.32	80	013467.74	06	013466.40
	L%U,FPK22			22033.40	60			013467.40
	-MG%U,FPK22			22033.52	20			013470.00
	SIC,SEN			1310.00	80			013470.40
	BZLS,SERS			1304.15	40			013471.00
	B,\$+.32-LS INDICATOR OFF F205D2			13472.10	00			013471.40
	BBZ,\$LS,\$+1.0			13.32	80	013473.34	06	013472.00
	L%U,FPK0			22005.40	60			013473.00
	+MG%U,FPK0			22005.42	20			013473.40
	SIC,SEN			1310.00	80			013474.00
	BLS,SERS			1304.15	42			013474.40
	B,\$+.32-LS INDICATOR OFF F205D3			13475.50	00			013475.00
	BBZ,\$LS,\$+1.0			13.32	80	013476.74	06	013475.40
	L%U,FPK4			22011.40	60			013476.40
	+MG%U,FPK23-FORCED ZERO CONDITION			22034.42	20			013477.00
	SIC,SEN			1310.00	80			013477.40
	BLS,SERS			1304.15	42			013500.00

B,\$+.32-LS INDICATOR,OFF TO OFF CONDITION F205D4	13501.10 00	013500.40
Z,\$IND	13.22 00	013501.00
L%U#,FK35-EXPONENT FLAG+1	22205.40 60	013501.40
+MG%U#,FK22	22170.42 20	013502.00
CT0110%BU,48#,FPK0+.12,68-CHECK RESULT FRACTION+0	22005.14 80 060042.15 70	013502.40
SIC,SEN	1310.00 80	013503.40
BRGZ,SERS	1304.35 42	013504.00
SIC,SEN	1310.00 80	013504.40
BLS,SERS	1304.15 42	013505.00
-		
B,\$+1.	13506.50 00	013505.40
B, FAMG6	13435.10 00	013506.00
SIC,SEN0+.32	1311.40 80	013506.40
B,SSW	1301.10 00	013507.00

-ADD MAGNITUDE TO MEMORY TEST ROUTINE
-ARITHMETIC CHECKS

F206
F206A

FAMM1	BD,S+.32			13510.04	00			013507.40
	L%BU□,F206			21755.00	80	000000.20	50	013510.00
	ST%BU□,DPET13			1437.00	80	000000.20	D0	013511.00
	SIC,RET1			1306.40	80			013512.00
	B,IDF1			1443.10	00			013512.40
SAP7	Z,SIND	-	F206A1	13.22	00			013513.00
	L%BU□,FPK26-EXP.++2047			22037.00	80	000000.20	50	013513.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013514.40
	L%U□,FK24-EXP.++1791			22172.40	60			013515.40
	M+MG%U□,ROS			22355.42	A0			013516.00
	CT0110%BU,64□,ROS-TEST RESULT+OPND WITH +2047 EXP.			22355.00	80	000000.15	70	013516.40
	SIC,SEN			1310.00	80			013517.40
	BRGZ,SERS			1304.35	42			013520.00
	Z,\$L	-	F206A2	10.22	00			013520.40
	L%BU□,FPK47-EXP.+ -256			22064.00	80	000000.20	50	013521.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	013522.00
	L%U□,FPK26-EXP.++2047			22037.40	60			013523.00
	M+MG%U□,ROS			22355.42	A0			013523.40
	CT0110%BU,64□,ROS,64-TEST RESULT+OPND WITH +2047 EXP			22355.00	80	000040.15	70	013524.00
	SIC,SEN			1310.00	80			013525.00
	BRGZ,SERS			1304.35	42			013525.40
	Z,\$L	-	F206A3	10.22	00			013526.00
	L%BU□,FK25-EXP.+ -1791			22173.00	80	000000.20	50	013526.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013527.40
	L%U□,FK24-EXP.++1791			22172.40	60			013530.40
	M+MG%U□,ROS			22355.42	A0			013531.00
	CT0110%BU,64□,ROS,64-TEST RESULT+OPND WITH +1791 EXP.			22355.00	80	000040.15	70	013531.40
	SIC,SEN			1310.00	80			013532.40
	BRGZ,SERS			1304.35	42			013533.00
	L%BU□,FK36-EXP++1024		F206A4	22206.00	80	000000.20	50	013533.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013534.40
	L%U□,FK38-EXP++1023			22210.40	60			013535.40
	M+MG%U□,ROS			22355.42	A0			013536.00
	CT0110%BU,64□,ROS-TEST RESULT+OPND WITH +1024 EXP			22355.00	80	000000.15	70	013536.40
	SIC,SEN			1310.00	80			013537.40
	BRGZ,SERS			1304.35	42			013540.00
	L%BU□,FPK35-EXP++2		F206A5	22050.00	80	000000.20	50	013540.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	013541.40
	L%U□,FPK39-EXP++2			22054.40	60			013542.40
	M+MG%U□,ROS			22355.42	A0			013543.00
	L%BU□,FPK32			22045.00	80	000000.20	50	013543.40
	CT0110%BU,64□,ROS-TEST RESULT FRACT.+1 S, EXP++2			22355.00	80	000000.15	70	013544.40
	SIC,SEN			1310.00	80			013545.40
	BRGZ,SERS			1304.35	42			013546.00
	Z,\$L	-	F206A6	10.22	00			013546.40
	L%BU□,FK25-EXP+-1791			22173.00	80	000000.20	50	013547.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	013550.00
	L%U□,FK22-EXP++512			22170.40	60			013551.00
	M+MG%U□,ROS			22355.42	A0			013551.40
	CT0110%BU,64□,ROS,64-TEST RESULT+OPND WITH +256 EXP.			22355.00	80	000040.15	70	013552.00
	SIC,SEN			1310.00	80			013553.00
	BRGZ,SERS			1304.35	42			013553.40

		F206A7						
L%BU□,FK26-EXP++2047			22037.00	80	000000.20	50		013554.00
ST%BU□,ROS			22355.00	80	000000.20	D0		013555.00
L%U□,FK25-EXP+-1791			22173.40	60				013556.00
M+MG%U□,ROS			22355.42	A0				013556.40
CT0110%BU,64□,ROS-TEST RESULT+OPND WITH +2047 EXP.			22355.00	80	000000.15	70		013557.00
SIC,SEN			1310.00	80				013560.00
BRGZ,SERS			1304.35	42				013560.40

		F206A8						
L%BU□,FK22-EXP++512	ALL I'S EXP + 1000		22170.00	80	000000.20	50		013561.00
ST%BU□,ROS			22355.00	80	000000.20	D0		013562.00
L%U□,FK25-EXP+-1791	ALL I'S EXP -		22173.40	60				013563.00
M+MG%U□,ROS			22355.42	A0				013563.40
CT0110%BU,64□,ROS-TEST RESULT+OPND WITH +512 EXP.			22355.00	80	000000.15	70		013564.00
SIC,SEN			1310.00	80				013565.00
BRGZ,SERS			1304.35	42				013565.40

		F206A9						
Z,\$L			10.22	00				013566.00
L%BU□,FK1-EXP+-2047			22006.00	80	000000.20	50		013566.40
ST%BU□,ROS			22355.00	80	000000.20	D0		013567.40
L%U□,FK25-EXP+-1791			22173.40	60				013570.40
M+MG%U□,ROS			22355.42	A0				013571.00
L%BU□,FK19			22165.00	80	000000.20	50		013571.40
CT0110%BU,60□,ROS,4 -TEST RESULT+ OPND WITH -1791 EXP			22355.00	80	074002.15	70		013572.40
SIC,SEN			1310.00	80				013573.40
BRGZ,SERS			1304.35	42				013574.00
BB,ROS+.60,\$+2.0 -CHECK SIGN BIT+1			22355.74	80	013576.74	02		013574.40
SIC,SEN			1310.00	80				013575.40
B,SERS			1304.10	00				013576.00

SAP7A	-TEST NORMALIZATION MODIFIER							
L%BU□,FK26	- EXP++2047	F206A10	22174.00	80	000000.20	50		013576.40
ST%BU□,ROS			22355.00	80	000000.20	D0		013577.40
L%U□,FK27-EXP++1791			22175.40	60				013600.40
M+MG%N□,ROS			22355.02	A0				013601.00
CT0110%BU,64□,ROS-TEST RESULT+OPND WITH +2047 EXP.			22355.00	80	000000.15	70		013601.40
SIC,SEN			1310.00	80				013602.40
BRGZ,SERS	-ERROR IF RESULT NORMALIZED		1304.35	42				013603.00

		F206A11						
Z,\$L			10.22	00				013603.40
L%BU□,FK28-EXP++50			22176.00	80	000000.20	50		013604.00
ST%BU□,ROS			22355.00	80	000000.20	D0		013605.00
L%U□,FK26-EXP++2047			22174.40	60				013606.00
M+MG%N□,ROS			22355.02	A0				013606.40
CT0110%BU,64□,ROS,64-TEST RESULT+OPND WITH +2047 EXP.			22355.00	80	000040.15	70		013607.00
SIC,SEN			1310.00	80				013610.00
BRGZ,SERS	-ERROR IF RESULT NORMALIZED		1304.35	42				013610.40

		F206A12						
Z,\$L			10.22	00				013611.00
L%BU□,FK31-EXP+-2047			22201.00	80	000000.20	50		013611.40
ST%BU□,ROS			22355.00	80	000000.20	D0		013612.40
L%U□,FK27-EXP++1791			22175.40	60				013613.40
M+MG%N□,ROS			22355.02	A0				013614.00
CT0110%BU,64□,ROS,64-TEST RESULT+OPND WITH +1791 EXP.			22355.00	80	000040.15	70		013614.40
SIC,SEN			1310.00	80				013615.40
BRGZ,SERS	-ERROR IF RESULT NORMALIZED		1304.35	42				013616.00

		F206A13						
Z,SL			10.22	00				013616.40
L%BU□,FK31-EXP+-2047			22201.00	80	000000.20	50		013617.00
ST%BU□,ROS			22355.00	80	000000.20	D0		013620.00
L%U□,FPK10-EXP++5			22017.40	60				013621.00
M+MG%N□,ROS			22355.02	A0				013621.40
L%BU□,FPK9			22016.00	80	000000.20	50		013622.00
CT0110%BU,64□,ROS-TEST RESULT OPND WITH			22355.00	80	000000.15	70		013623.00
SIC,SEN			1310.00	80				013624.00
BRGZ,SERS -PLUS 5 EXP, NORM			1304.35	42				013624.40
		F206A14						
L%BU□,FPK7-EXP++3			22014.00	80	000000.20	50		013625.00
ST%BU□,ROS			22355.00	80	000000.20	D0		013626.00
L%U□,FPK8-EXP++4			22015.40	60				013627.00
M+MG%N□,ROS			22355.02	A0				013627.40
L%BU□,FK45			22217.00	80	000000.20	50		013630.00
CT0110%BU,64□,ROS-TEST FRACTIONS ADDED AND,			22355.00	80	000000.15	70		013631.00
SIC,SEN			1310.00	80				013632.00
BRGZ,SERS - RESULT NORM			1304.35	42				013632.40
		F206A15						
L%BU□,FK30-EXP+-1791			22200.00	80	000000.20	50		013633.00
ST%BU□,ROS			22355.00	80	000000.20	D0		013634.00
L%U□,FK31-EXP+-2047			22201.40	60				013635.00
M+MG%N□,ROS			22355.02	A0				013635.40
CT0110%BU,64□,ROS-TEST RESULT+OPND WITH -1791 EXP.			22355.00	80	000000.15	70		013636.00
SIC,SEN			1310.00	80				013637.00
BRGZ,SERS			1304.35	42				013637.40
BD,\$+1.0			13641.04	00				013640.00
B,FAMM1			13507.50	00				013640.40
SIC,SEN0+.32			1311.40	80				013641.00
B,SSW			1301.10	00				013641.40

-TESTS OF SIGN AND MODIFIER COMBINATIONS F206B
 -MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS

SAP7B	BD,\$+.32				13642.44 00		013642.00
	L%BU□,FPK4	- MS+ACS+N+A+0	F206B1		22011.00 80 000000.20 50		013642.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		013643.40
	L%U□,FPK19	-FPK19 HAS EXP.+1 AND FRACT.+1010...10			22030.40 60		013644.40
	M+MG%U□,ROS				22355.42 A0		013645.00
	L%BU□,FPK22				22033.00 80 000000.20 50		013645.40
	CT0110%BU,60□,ROS,4	-CHECK RESULT IN MEMORY			22355.00 80 074002.15 70		013646.40
	SIC,SEN				1310.00 80		013647.40
		BRGZ,SERS			1304.35 42		013650.00
	BZB,ROS+.60,\$+2.0	-TEST SIGN BIT + 0			22355.74 80 013652.74 00		013650.40
	SIC,SEN				1310.00 80		013651.40
		B,SERS			1304.10 00		013652.00
NOS1	L%BU□,FPK19	-MS,ACS,N AND A ARE 0	F206B2		22030.00 80 000000.20 50		013652.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		013653.40
	L%U□,FPK4				22011.40 60		013654.40
	M+MG%U□,ROS				22355.42 A0		013655.00
	L%BU□,FPK22				22033.00 80 000000.20 50		013655.40
	CT0110%BU,60□,ROS,4	-CHECK RESULT IN MEMORY			22355.00 80 074002.15 70		013656.40
	SIC,SEN				1310.00 80		013657.40
		BRGZ,SERS			1304.35 42		013660.00
	BZB,ROS+.60,\$+2.0	-TEST SIGN BIT + 0			22355.74 80 013662.74 00		013660.40
	SIC,SEN				1310.00 80		013661.40
		B,SERS			1304.10 00		013662.00
NOS2	L%BU□,FPK4	-MS,ACS AND N ARE 0, A IS 1	F206B3		22011.00 80 000000.20 50		013662.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		013663.40
	L%U□,FPK19				22030.40 60		013664.40
	M+MGA%U□,ROS				22355.62 A0		013665.00
	L%BU□,FPK22				22033.00 80 000000.20 50		013665.40
	CT0110%BU,60□,ROS,4	-CHECK RESULT IN MEMORY			22355.00 80 074002.15 70		013666.40
	SIC,SEN				1310.00 80		013667.40
		BRGZ,SERS			1304.35 42		013670.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0			22355.74 80 013672.74 00		013670.40
	SIC,SEN				1310.00 80		013671.40
		B,SERS			1304.10 00		013672.00
NOS3	L%BU□,FPK19	-MS,ACS AND N ARE 0, A IS 1	F206B4		22030.00 80 000000.20 50		013672.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		013673.40
	L%U□,FPK4				22011.40 60		013674.40
	M+MGA%U□,ROS				22355.62 A0		013675.00
	L%BU□,FPK22				22033.00 80 000000.20 50		013675.40
	CT0110%BU,60□,ROS,4	-CHECK RESULT IN MEMORY			22355.00 80 074002.15 70		013676.40
	SIC,SEN				1310.00 80		013677.40
		BRGZ,SERS			1304.35 42		013700.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0			22355.74 80 013702.74 00		013700.40
	SIC,SEN				1310.00 80		013701.40
		B,SERS			1304.10 00		013702.00
NOS4	L%BU□,FPK4	-MS,ACS AND A ARE 0, N IS 1	F206B5		22011.00 80 000000.20 50		013702.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		013703.40
	L%U□,FPK19				22030.40 60		013704.40
	M-MG%U□,ROS				22355.52 A0		013705.00
	L%BU□,FPK29				22042.00 80 000000.20 50		013705.40
	CT0110%BU,60□,ROS,4	-CHECK RESULT IN MEMORY			22355.00 80 074002.15 70		013706.40
	SIC,SEN				1310.00 80		013707.40
		BRGZ,SERS			1304.35 42		013710.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0			22355.74 80 013712.74 00		013710.40
	SIC,SEN				1310.00 80		013711.40
		B,SERS			1304.10 00		013712.00
NOS5	L%BU□,FPK19	-MS,ACS AND A ARE 0, N IS 1	F206B6		22030.00 80 000000.20 50		013712.40
	ST%BU□,ROS				22355.00 80 000000.20 D0		013713.40
	L%U□,FPK4				22011.40 60		013714.40

	M-MG%U□,ROS			22355.52	A0		013715.00
	L%BU□,FPK4			22011.00	80	000000.20 50	013715.40
	CT0110%BU,60□,ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15 70	013716.40
	SIC,SEN			1310.00	80		013717.40
	BRGZ,SERS			1304.35	42		013720.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0		22355.74	80	013722.74 00	013720.40
	SIC,SEN			1310.00	80		013721.40
	B,SERS			1304.10	00		013722.00
NOS6	L%BU□,FPK4	-MS AND ACS ARE 0, N AND A ARE 1	F206B7	22011.00	80	000000.20 50	013722.40
	ST%BU□,ROS			22355.00	80	000000.20 D0	013723.40
	L%U□,FPK19			22030.40	60		013724.40
	M-MGA%U□,ROS			22355.72	A0		013725.00
	L%BU□,FPK29			22042.00	80	000000.20 50	013725.40
	CT0110%BU,60□,ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15 70	013726.40
	SIC,SEN			1310.00	80		013727.40
	BRGZ,SERS			1304.35	42		013730.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0		22355.74	80	013732.74 00	013730.40
	SIC,SEN			1310.00	80		013731.40
	B,SERS			1304.10	00		013732.00
NOS7	L%BU□,FPK19	-MS AND ACS ARE 0, N AN A ARE 1	F206B8	22030.00	80	000000.20 50	013732.40
	ST%BU□,ROS			22355.00	80	000000.20 D0	013733.40
	L%U□,FPK4			22011.40	60		013734.40
	M-MGA%U□,ROS			22355.72	A0		013735.00
	L%BU□,FPK4			22011.00	80	000000.20 50	013735.40
	CT0110%BU,60□,ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15 70	013736.40
	SIC,SEN			1310.00	80		013737.40
	BRGZ,SERS			1304.35	42		013740.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0		22355.74	80	013742.74 00	013740.40
	SIC,SEN			1310.00	80		013741.40
	B,SERS			1304.10	00		013742.00
NOS8	L%BU□,FPK4	-MS, N AND A ARE 0, ACS IS 1	F206B9	22011.00	80	000000.20 50	013742.40
	ST%BU□,ROS			22355.00	80	000000.20 D0	013743.40
	LN%U□,FPK19			22030.50	60		013744.40
	M+MG%U□,ROS			22355.42	A0		013745.00
	L%BU□,FPK22			22033.00	80	000000.20 50	013745.40
	CT0110%BU,60□,ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15 70	013746.40
	SIC,SEN			1310.00	80		013747.40
	BRGZ,SERS			1304.35	42		013750.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0		22355.74	80	013752.74 00	013750.40
	SIC,SEN			1310.00	80		013751.40
	B,SERS			1304.10	00		013752.00
NOS9	L%BU□,FPK19	-MS, N AND A ARE 0, ACS IS 1	F206B10	22030.00	80	000000.20 50	013752.40
	ST%BU□,ROS			22355.00	80	000000.20 D0	013753.40
	LN%U□,FPK4			22011.50	60		013754.40
	M+MG%U□,ROS			22355.42	A0		013755.00
	L%BU□,FPK22			22033.00	80	000000.20 50	013755.40
	CT0110%BU,60□,ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15 70	013756.40
	SIC,SEN			1310.00	80		013757.40
	BRGZ,SERS			1304.35	42		013760.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0		22355.74	80	013762.74 00	013760.40
	SIC,SEN			1310.00	80		013761.40
	B,SERS			1304.10	00		013762.00
NOS10	L%BU□,FPK4	-MS AND N ARE 0, ACS AND A ARE1	F206B11	22011.00	80	000000.20 50	013762.40
	ST%BU□,ROS			22355.00	80	000000.20 D0	013763.40
	LN%U□,FPK19			22030.50	60		013764.40
	M+MGA%U□,ROS			22355.62	A0		013765.00
	L%BU□,FPK22			22033.00	80	000000.20 50	013765.40
	CT0110%BU,60□,ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15 70	013766.40
	SIC,SEN			1310.00	80		013767.40
	BRGZ,SERS			1304.35	42		013770.00
	BZB,ROS+.60,\$+2.0	- TEST SIGN BIT + 0		22355.74	80	013772.74 00	013770.40
	SIC,SEN			1310.00	80		013771.40
	B,SERS			1304.10	00		013772.00

NOS11	L%BU□, FPK19	-MS AND N ARE 0, ACS AND A ARE 1	F206B12	22030.00	80	000000.20	50	013772.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	013773.40
	LN%U□, FPK4			22011.50	60			013774.40
	M+MG%U□, ROS			22355.62	A0			013775.00
	L%BU□, FPK22			22033.00	80	000000.20	50	013775.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	013776.40
	SIC, SEN			1310.00	80			013777.40
	BRGZ, SERS			1304.35	42			014000.00
	BZB, ROS+.60, S+2.0	- TEST SIGN BIT + 0		22355.74	80	014002.74	00	014000.40
	SIC, SEN			1310.00	80			014001.40
	B, SERS			1304.10	00			014002.00
NOS12	L%BU□, FPK4	-MS AND A ARE 0, ACS AND N ARE 1	F206B13	22011.00	80	000000.20	50	014002.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014003.40
	LN%U□, FPK19			22030.50	60			014004.40
	M-MG%U□, ROS			22355.52	A0			014005.00
	L%BU□, FPK29			22042.00	80	000000.20	50	014005.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014006.40
	SIC, SEN			1310.00	80			014007.40
	BRGZ, SERS			1304.35	42			014010.00
	BZB, ROS+.60, S+2.0	-CHECK SIGN BIT+0		22355.74	80	014012.74	00	014010.40
	SIC, SEN			1310.00	80			014011.40
	B, SERS			1304.10	00			014012.00
	L%BU□, FPK19	- MS+A+0 ACS+N+1	F206B14	22030.00	80	000000.20	50	014012.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014013.40
	LN%U□, FPK4			22011.50	60			014014.40
	M-MG%U□, ROS			22355.52	A0			014015.00
	L%BU□, FPK4			22011.00	80	000000.20	50	014015.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014016.40
	SIC, SEN			1310.00	80			014017.40
	BRGZ, SERS			1304.35	42			014020.00
	BZB, ROS+.60, S+2.0	- CHECK SIGN BIT + 0		22355.74	80	014022.74	00	014020.40
	SIC, SEN			1310.00	80			014021.40
	B, SERS			1304.10	00			014022.00
NOS14	L%BU□, FPK4	-MS IS 0, ACS, N AND A ARE 1	F206B15	22011.00	80	000000.20	50	014022.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014023.40
	LN%U□, FPK19			22030.50	60			014024.40
	M-MGA%U□, ROS			22355.72	A0			014025.00
	L%BU□, FPK29			22042.00	80	000000.20	50	014025.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014026.40
	SIC, SEN			1310.00	80			014027.40
	BRGZ, SERS			1304.35	42			014030.00
	BZB, ROS+.60, NOS15-TEST SIGN BIT+0			22355.74	80	014032.74	00	014030.40
	SIC, SEN			1310.00	80			014031.40
	B, SERS			1304.10	00			014032.00
NOS15	L%BU□, FPK19	-MS IS 0, ACS, N AND A ARE 1	F206B16	22030.00	80	000000.20	50	014032.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014033.40
	LN%U□, FPK4			22011.50	60			014034.40
	M-MGA%U□, ROS			22355.72	A0			014035.00
	L%BU□, FPK4			22011.00	80	000000.20	50	014035.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014036.40
	SIC, SEN			1310.00	80			014037.40
	BRGZ, SERS			1304.35	42			014040.00
	BZB, ROS+.60, S+2.0	-CHECK SIGN BIT+0		22355.74	80	014042.74	00	014040.40
	SIC, SEN			1310.00	80			014041.40
	B, SERS			1304.10	00			014042.00

		- ACS+N+A+0	M+1	F206B17						
	L%BU	FPK24-FPK24, EXP.+1 AND FRAC.+0101..01			22035.00	30	000000.20	50	014042.40	
	ST%BU	ROS			22355.00	80	000000.20	D0	014043.40	
	L%U	FPK19			22030.40	60			014044.40	
	M+MG%U	ROS			22355.42	A0			014045.00	
	L%BU	FPK29			22042.00	80	000000.20	50	014045.40	
	CT0110%BU,60	ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014046.40	
	SIC,SEN				1310.00	80			014047.40	
		BRGZ,SERS			1304.35	42			014050.00	
	BB	ROS+.60,S+2.0	- TEST SIGN BIT + 1		22355.74	80	014052.74	02	014050.40	
	SIC,SEN				1310.00	80			014051.40	
		B,SERS			1304.10	00			014052.00	
SAP7C	L%BU	FPK23	- MS+1	ACS+N+A+0	F206B18	22034.00	80	000000.20	50	014052.40
	ST%BU	ROS				22355.00	80	000000.20	D0	014053.40
	L%U	FPK4			22011.40	60			014054.40	
	M+MG%U	ROS			22355.42	A0			014055.00	
	L%BU	FPK4			22011.00	80	000000.20	50	014055.40	
	CT0110%BU,60	ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014056.40	
	SIC,SEN				1310.00	80			014057.40	
		BRGZ,SERS			1304.35	42			014060.00	
	BB	ROS+.60,S+2.0	- TEST SIGN BIT + 1		22355.74	80	014062.74	02	014060.40	
	SIC,SEN				1310.00	80			014061.40	
		B,SERS			1304.10	00			014062.00	
NOS18	L%BU	FPK24	-MS AND A ARE 1, ACS AND N ARE 0	F206B19	22035.00	80	000000.20	50	014062.40	
	ST%BU	ROS			22355.00	80	000000.20	D0	014063.40	
	L%U	FPK19			22030.40	60			014064.40	
	M+MGA%U	ROS			22355.62	A0			014065.00	
	L%BU	FPK22			22033.00	80	000000.20	50	014065.40	
	CT0110%BU,60	ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014066.40	
	SIC,SEN				1310.00	80			014067.40	
		BRGZ,SERS			1304.35	42			014070.00	
	BB	ROS+.60,S+2.0	- TEST SIGN BIT + 1		22355.74	80	014072.74	02	014070.40	
	SIC,SEN				1310.00	80			014071.40	
		B,SERS			1304.10	00			014072.00	
NOS19	L%BU	FPK23	-MS AND A ARE 1, ACS AND N ARE 0	F206B20	22034.00	80	000000.20	50	014072.40	
	ST%BU	ROS			22355.00	80	000000.20	D0	014073.40	
	L%U	FPK4			22011.40	60			014074.40	
	M+MGA%U	ROS			22355.62	A0			014075.00	
	L%BU	FPK22			22033.00	80	000000.20	50	014075.40	
	CT0110%BU,60	ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014076.40	
	SIC,SEN				1310.00	80			014077.40	
		BRGZ,SERS			1304.35	42			014100.00	
	BB	ROS+.60,S+2.0	- TEST SIGN BIT + 1		22355.74	80	014102.74	02	014100.40	
	SIC,SEN				1310.00	80			014101.40	
		B,SERS			1304.10	00			014102.00	
NOS20	L%BU	FPK24	-MS AND N ARE 1, ACS AND A ARE 0	F206B21	22035.00	80	000000.20	50	014102.40	
	ST%BU	ROS			22355.00	80	000000.20	D0	014103.40	
	L%U	FPK19			22030.40	60			014104.40	
	M-MG%U	ROS			22355.52	A0			014105.00	
	L%BU	FPK22			22033.00	80	000000.20	50	014105.40	
	CT0110%BU,60	ROS,4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014106.40	
	SIC,SEN				1310.00	80			014107.40	
		BRGZ,SERS			1304.35	42			014110.00	
	BB	ROS+.60,S+2.0	- TEST SIGN BIT + 1		22355.74	80	014112.74	02	014110.40	
	SIC,SEN				1310.00	80			014111.40	
		B,SERS			1304.10	00			014112.00	

NOS21	L%BU□, FPK23	-MS AND N ARE 1, ACS AND A ARE 0	F206B22	22034.00	80	000000.20	50	014112.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014113.40
	L%U□, FPK4			22011.40	60			014114.40
	M-MG%U□, ROS			22355.52	A0			014115.00
	L%BU□, FPK22			22033.00	80	000000.20	50	014115.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014116.40
	SIC, SEN			1310.00	80			014117.40
	BRGZ, SERS			1304.35	42			014120.00
	BB, ROS+.60, \$+2.0	- TEST SIGN BIT + 1		22355.74	80	014122.74	02	014120.40
	SIC, SEN			1310.00	80			014121.40
B, SERS			1304.10	00			014122.00	
NOS22	L%BU□, FPK24	-MS, N AND A ARE 1, ACS IS 0	F206B23	22035.00	80	000000.20	50	014122.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014123.40
	L%U□, FPK19			22030.40	60			014124.40
	M-MGA%U□, ROS			22355.72	A0			014125.00
	L%BU□, FPK29			22042.00	80	000000.20	50	014125.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014126.40
	SIC, SEN			1310.00	80			014127.40
	BRGZ, SERS			1304.35	42			014130.00
	BB, ROS+.60, \$+2.0			22355.74	80	014132.74	02	014130.40
	SIC, SEN			1310.00	80			014131.40
B, SERS			1304.10	00			014132.00	
NOS23	L%BU□, FPK23	-MS, N AND A ARE 1, ACS IS 0	-F206B24	22034.00	80	000000.20	50	014132.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014133.40
	L%U□, FPK4			22011.40	60			014134.40
	M-MGA%U□, ROS			22355.72	A0			014135.00
	L%BU□, FPK4			22011.00	80	000000.20	50	014135.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014136.40
	SIC, SEN			1310.00	80			014137.40
	BRGZ, SERS			1304.35	42			014140.00
	BB, ROS+.60, \$+2.0			22355.74	80	014142.74	02	014140.40
	SIC, SEN			1310.00	80			014141.40
B, SERS			1304.10	00			014142.00	
NOS24	L%BU□, FPK24	-MS AND ACS ARE 1, N AND A ARE 0	F206B25	22035.00	80	000000.20	50	014142.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014143.40
	LN%U□, FPK19			22030.50	60			014144.40
	M+MG%U□, ROS			22355.42	A0			014145.00
	L%BU□, FPK29			22042.00	80	000000.20	50	014145.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014146.40
	SIC, SEN			1310.00	80			014147.40
	BRGZ, SERS			1304.35	42			014150.00
	BB, ROS+.60, \$+2.0			22355.74	80	014152.74	02	014150.40
	SIC, SEN			1310.00	80			014151.40
B, SERS			1304.10	00			014152.00	
NOS25	L%BU□, FPK23	-MS AND ACS ARE 1, N AND A ARE 0	F206B26	22034.00	80	000000.20	50	014152.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014153.40
	L%U□, FPK4			22011.40	60			014154.40
	M+MG%U□, ROS			22355.42	A0			014155.00
	L%BU□, FPK4			22011.00	80	000000.20	50	014155.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014156.40
	SIC, SEN			1310.00	80			014157.40
	BRGZ, SERS			1304.35	42			014160.00
	BB, ROS+.60, \$+2.0			22355.74	80	014162.74	02	014160.40
	SIC, SEN			1310.00	80			014161.40
B, SERS			1304.10	00			014162.00	

NOS26	L%BU□, FPK24	-MS, ACS AND A ARE 1, N IS 0	F206B27	22035.00	80	000000.20	50	014162.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014163.40
	LN%U□, FPK19			22030.50	60			014164.40
	M+MGA%U□, ROS			22355.62	A0			014165.00
	L%BU□, FPK22			22033.00	80	000000.20	50	014165.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014166.40
	SIC, SEN			1310.00	80			014167.40
	BRGZ, SERS			1304.35	42			014170.00
	BB, ROS+.60, \$+2.0			22355.74	80	014172.74	02	014170.40
	SIC, SEN			1310.00	80			014171.40
B, SERS			1304.10	00			014172.00	
NOS27	L%BU□, FPK23	-MS, ACS AND A ARE 1% N IS 0	F206B28	22034.00	80	000000.20	50	014172.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014173.40
	LN%U□, FPK4			22011.50	60			014174.40
	M+MGA%U□, ROS			22355.62	A0			014175.00
	L%BU□, FPK22			22033.00	80	000000.20	50	014175.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014176.40
	SIC, SEN			1310.00	80			014177.40
	BRGZ, SERS			1304.35	42			014200.00
	BB, ROS+.60, \$+2.0			22355.74	80	014202.74	02	014200.40
	SIC, SEN			1310.00	80			014201.40
B, SERS			1304.10	00			014202.00	
NOS28	L%BU□, FPK24	-MS, ACS AND N ARE 1, A IS 0	F206B29	22035.00	80	000000.20	50	014202.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014203.40
	LN%U□, FPK19			22030.50	60			014204.40
	M-MG%U□, ROS			22355.52	A0			014205.00
	L%BU□, FPK22			22033.00	80	000000.20	50	014205.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014206.40
	SIC, SEN			1310.00	80			014207.40
	BRGZ, SERS			1304.35	42			014210.00
	BB, ROS+.60, \$+2.0			22355.74	80	014212.74	02	014210.40
	SIC, SEN			1310.00	80			014211.40
B, SERS			1304.10	00			014212.00	
NOS29	L%BU□, FPK23	-MS, ACS AND N ARE 1, A IS 0	F206B30	22034.00	80	000000.20	50	014212.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014213.40
	LN%U□, FPK4			22011.50	60			014214.40
	M-MG%U□, ROS			22355.52	A0			014215.00
	L%BU□, FPK22			22033.00	80	000000.20	50	014215.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014216.40
	SIC, SEN			1310.00	80			014217.40
	BRGZ, SERS			1304.35	42			014220.00
	BB, ROS+.60, \$+2.0	- TEST SIGN		22355.74	80	014222.74	02	014220.40
	SIC, SEN			1310.00	80			014221.40
B, SERS			1304.10	00			014222.00	
NOS30	L%BU□, FPK24	-MS, ACS, N AND A ARE 1	F206B31	22035.00	80	000000.20	50	014222.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014223.40
	LN%U□, FPK19			22030.50	60			014224.40
	M-MGA%U□, ROS			22355.72	A0			014225.00
	L%BU□, FPK29			22042.00	80	000000.20	50	014225.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014226.40
	SIC, SEN			1310.00	80			014227.40
	BRGZ, SERS			1304.35	42			014230.00
	BB, ROS+.60, \$+2.0	- TEST SIGN BIT + 1		22355.74	80	014232.74	02	014230.40
	SIC, SEN			1310.00	80			014231.40
B, SERS			1304.10	00			014232.00	
NOS31	L%BU□, FPK23	-MS, ACS, N AND A ARE 1	F206B32	22034.00	80	000000.20	50	014232.40
	ST%BU□, ROS			22355.00	80	000000.20	D0	014233.40
	LN%U□, FPK4			22011.50	60			014234.40
	M-MGA%U□, ROS			22355.72	A0			014235.00
	L%BU□, FPK4			22011.00	80	000000.20	50	014235.40
	CT0110%BU, 60□, ROS, 4-CHECK RESULT IN MEMORY			22355.00	80	074002.15	70	014236.40
	SIC, SEN			1310.00	80			014237.40

BRGZ,SERS
BB,ROS+.60,\$+2.0 -CHECK SIGN BIT+1
SIC,SEN
B,SERS
-
BD,\$+1.0
B,SAP7B
SIC,SEN0+.32
B,SSW

1304.35 42
22355.74 80 014242.74 02
1310.00 80
1304.10 00
14243.44 00
13642.10 00
1311.40 80
1301.10 00
014240.00
014240.40
014241.40
014242.00
014242.40
014243.00
014243.40
014244.00

-TEST UNCHANGED REGISTERS

F206C

SAP7D

BD,\$+.32
L%BU,FPK37 - ZEROS REMAIN ZEROS

F206C1

14245.04 00 014244.40
22052.00 80 000000.20 50 014245.00
22355.00 80 000000.20 D0 014246.00
22005.00 80 000040.00 70 014247.00
22005.00 80 000000.00 70 014250.00
12.00 80 010000.00 F0 014251.00

M+MG%U,ROS
CT0101%BU,64,FPK0,64-DOES L 0-63 REMAIN+0 S
SIC,SEN

F206C1A

22355.42 A0 014252.00
22005.00 80 000040.13 70 014252.40
1310.00 80 014253.40
1304.35 42 014254.00

CT0101%BU,64,FPK0-DOES R 0-63 REMAIN+0 S
SIC,SEN

F206C1B

22005.00 80 000000.13 70 014254.40
1310.00 80 014255.40
1304.35 42 014256.00
12.00 80 010000.07 70 014256.40

CT0011%BU,8,10.0-DOES THE SB REMAIN+0 S
SIC,SEN

F206C1C

1310.00 80 014257.40
1304.35 42 014260.00

B,\$+.32-1 S REMAIN 1 S
L%BU,FPK37

F206C2

14261.10 00 014260.40
22052.00 80 000000.20 50 014261.00
22355.00 80 000000.20 D0 014262.00
22006.00 80 000040.36 70 014263.00
22006.00 80 000000.36 70 014264.00
12.00 80 010000.36 F0 014265.00

M+MG%U,ROS
CT1010%BU,64,FPK1,64
SIC,SEN

22355.42 A0 014266.00
22006.00 80 000040.25 70 014266.40
1310.00 80 014267.40
1304.35 42 014270.00

CT1010%BU,64,FPK1
SIC,SEN

22006.00 80 000000.25 70 014270.40
1310.00 80 014271.40
1304.35 42 014272.00
12.00 80 010000.31 70 014272.40

CT1100%BU,8,10.0
SIC,SEN

1310.00 80 014273.40
1304.35 42 014274.00

BD,\$+1.0

14275.44 00 014274.40

B,SAP7D
SIC,SEN0+.32

14244.50 00 014275.00
1311.40 80 014275.40

B,SSW

1301.10 00 014276.00

-LOST SIGNIFICANCE INDICATOR TESTS

F206D

SAP7E	BD,\$+.32			14277.04	00			014276.40
	L%BU□,FPK22	- TEST LS ON	F206D1	22033.00	80	000000.20	50	014277.00
	BLSZ,\$+.32-BOTH FRACTIONS UNEQUAL TO ZERO			14300.55	46			014300.00
	L%BU□,FPK22			22033.00	80	000000.20	50	014300.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	014301.40
	L%U□,FPK22			22033.40	60			014302.40
	M-MG%U□,ROS			22355.52	A0			014303.00
	SIC,SEN			1310.00	80			014303.40
	BZLS,SERS -ERROR IF LS OFF			1304.15	40			014304.00
	B,\$+.32-TEST LS, OFF CONDITION		F206D2	14305.10	00			014304.40
	BLSZ,\$+.32-BOTH OPNDS+0			14305.55	46			014305.00
	Z,ROS			22355.22	00			014305.40
	L%U□,FPK0			22005.40	60			014306.00
	M+MG%U□,ROS			22355.42	A0			014306.40
	SIC,SEN			1310.00	80			014307.00
	BLS,SERS -ERROR IF LS ON			1304.15	42			014307.40
	B,\$+.32-TEST LS, OFF CONDITION		F206D3	14310.50	00			014310.00
	BLSZ,\$+.32-FORCED ZERO RESULT			14311.15	46			014310.40
	L%BU□,FPK4			22011.00	80	000000.20	50	014311.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	014312.00
	L%U□,FPK19			22030.40	60			014313.00
	M-MG%U□,ROS			22355.52	A0			014313.40
	SIC,SEN			1310.00	80			014314.00
	BLS,SERS -ERROR IF LS ON			1304.15	42			014314.40
	B,\$+.32-TEST LS, OFF CONDITON		F206D4	14315.50	00			014315.00
	BLSZ,\$+.32-RESULT EXP. CONTAINS EF+1			14316.15	46			014315.40
	L%BU□,FK36			22206.00	80	000000.20	50	014316.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	014317.00
	L%U□,FK28			22176.40	60			014320.00
	M+MG%U□,ROS			22355.42	A0			014320.40
	SIC,SEN			1310.00	80			014321.00
	BLS,SERS -ERROR IF LS ON			1304.15	42			014321.40

-TEST EXPONENT RANGE INDICATORS

SAP7F	L%BU□,FPK26	- TEST XPFP ON	F206D5	22037.00	80	000000.20	50	014322.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	014323.00
	L%U□,FPK38			22053.40	60			014324.00
	Z,\$IND			13.22	00			014324.40
	M+MG%U□,ROS			22355.42	A0			014325.00
	BB,11.28,\$+2.-ERROR IF XPFP IND. OFF AND,			13.34	80	014327.74	02	014325.40
	SIC,SEN			1310.00	80			014326.40
	B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			014327.00
	BZB,11.29,\$+2.			13.35	80	014331.74	00	014327.40
	SIC,SEN			1310.00	80			014330.40
	B,SERS			1304.10	00			014331.00
	BZB,11.30,\$+2.			13.36	80	014333.74	00	014331.40
	SIC,SEN			1310.00	80			014332.40
	B,SERS			1304.10	00			014333.00
	BZB,11.31,\$+2.			13.37	80	014335.74	00	014333.40
	SIC,SEN			1310.00	80			014334.40
	B,SERS			1304.10	00			014335.00
	BZB,11.32,\$+2.			13.40	80	014337.74	00	014335.40
	SIC,SEN			1310.00	80			014336.40
	B,SERS			1304.10	00			014337.00

	B,\$+.32-TEST XPO, ON CONDITION		F206D6	14340.10	00			014337.40
	L%BU□,FK38			22210.00	80	000000.20	50	014340.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	014341.00
	L%U□,FK38			22210.40	60			014342.00
	Z,\$IND			13.22	00			014342.40
	M+MG%N□,ROS			22355.02	A0			014343.00
	BB,11.29,\$+2.-ERROR IF XPO IND. OFF AND,			13.35	80	014345.74	02	014343.40
	SIC,SEN			1310.00	80			014344.40
	B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			014345.00
	BZB,11.28,\$+2.			13.34	80	014347.74	00	014345.40
	SIC,SEN			1310.00	80			014346.40
	B,SERS			1304.10	00			014347.00
	BZB,11.30,\$+2.			13.36	80	014351.74	00	014347.40
	SIC,SEN			1310.00	80			014350.40
	B,SERS			1304.10	00			014351.00
	BZB,11.31,\$+2.			13.37	80	014353.74	00	014351.40
	SIC,SEN			1310.00	80			014352.40
	B,SERS			1304.10	00			014353.00
	BZB,11.32,\$+2.			13.40	80	014355.74	00	014353.40
	SIC,SEN			1310.00	80			014354.40
	B,SERS			1304.10	00			014355.00
	B,\$+.32-TEST XPH, ON CONDITION		F206D7	14356.10	00			014355.40
	L%BU□,FK22			22170.00	80	000000.20	50	014356.00
	ST%BU□,ROS			22355.00	80	000000.20	D0	014357.00
	L%U□,FK25			22173.40	60			014360.00
	Z,\$IND			13.22	00			014360.40
	M+MG%U□,ROS			22355.42	A0			014361.00
	BB,11.30,\$+2.-ERROR IF XPH IND. OFF AND,			13.36	80	014363.74	02	014361.40
	SIC,SEN			1310.00	80			014362.40
	B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			014363.00
	BZB,11.28,\$+2.			13.34	80	014365.74	00	014363.40
	SIC,SEN			1310.00	80			014364.40
	B,SERS			1304.10	00			014365.00
	BZB,11.29,\$+2.			13.35	80	014367.74	00	014365.40
	SIC,SEN			1310.00	80			014366.40
	B,SERS			1304.10	00			014367.00
	BZB,11.31,\$+2.			13.37	80	014371.74	00	014367.40
	SIC,SEN			1310.00	80			014370.40
	B,SERS			1304.10	00			014371.00
	BZB,11.32,\$+2.			13.40	80	014373.74	00	014371.40
	SIC,SEN			1310.00	80			014372.40
	B,SERS			1304.10	00			014373.00
SAP7G	L%BU□,FPK28	- TEST XPL ON	F206D8	22041.00	80	000000.20	50	014373.40
	ST%BU□,ROS			22355.00	80	000000.20	D0	014374.40
	L%U□,FPK27			22040.40	60			014375.40
	Z,\$IND			13.22	00			014376.00
	M+MG%U□,ROS			22355.42	A0			014376.40
	BB,11.31,\$+2.-ERROR IF XPL IND. OFF AND,			13.37	80	014401.34	02	014377.00
	SIC,SEN			1310.00	80			014400.00
	B,SERS-OTHER EXPONENT INDS. ON			1304.10	00			014400.40
	BZB,11.28,\$+2.			13.34	80	014403.34	00	014401.00
	SIC,SEN			1310.00	80			014402.00
	B,SERS			1304.10	00			014402.40
	BZB,11.29,\$+2.			13.35	80	014405.34	00	014403.00
	SIC,SEN			1310.00	80			014404.00
	B,SERS			1304.10	00			014404.40
	BZB,11.30,\$+2.			13.36	80	014407.34	00	014405.00
	SIC,SEN			1310.00	80			014406.00
	B,SERS			1304.10	00			014406.40
	BZB,11.32,\$+2.			13.40	80	014411.34	00	014407.00
	SIC,SEN			1310.00	80			014410.00
	B,SERS			1304.10	00			014410.40

B,\$+.32-TEST XPU, ON CONDITION	F206D9	14411.50	00		014411.00
L%BU,FK39		22211.00	80	000000.20 50	014411.40
ST%BU,ROS		22355.00	80	000000.20 D0	014412.40
L%U,FK39		22211.40	60		014413.40
Z,\$IND		13.22	00		014414.00
M+MG%N,ROS		22355.02	A0		014414.40
BB,11.32,\$+2.-ERROR IF XPU IND. OFF AND,		13.40	80	014417.34 02	014415.00
SIC,SEN		1310.00	80		014416.00
B,SERS -OTHER EXPONENT INDS ON		1304.10	00		014416.40
BZB,11.28,\$+2.		13.34	80	014421.34 00	014417.00
SIC,SEN		1310.00	80		014420.00
B,SERS		1304.10	00		014420.40
BZB,11.29,\$+2.		13.35	80	014423.34 00	014421.00
SIC,SEN		1310.00	80		014422.00
B,SERS		1304.10	00		014422.40
BZB,11.30,\$+2.		13.36	80	014425.34 00	014423.00
SIC,SEN		1310.00	80		014424.00
B,SERS		1304.10	00		014424.40
BZB,11.31,\$+2.		13.37	80	014427.34 00	014425.00
SIC,SEN		1310.00	80		014426.00
B,SERS		1304.10	00		014426.40
B,\$+.32-TEST XPFN, ON CONDITION	F206D10	14427.50	00		014427.00
L%BU,FPK2		22007.00	80	000000.20 50	014427.40
ST%BU,ROS		22355.00	80	000000.20 D0	014430.40
L%U,FPK25		22036.40	60		014431.40
Z,\$IND		13.22	00		014432.00
M+MG%U,ROS		22355.42	A0		014432.40
BZB,11.28,\$+2.		13.34	80	014435.34 00	014433.00
SIC,SEN		1310.00	80		014434.00
B,SERS		1304.10	00		014434.40
BZB,11.29,\$+2.		13.35	80	014437.34 00	014435.00
SIC,SEN		1310.00	80		014436.00
B,SERS		1304.10	00		014436.40
BZB,11.30,\$+2.		13.36	80	014441.34 00	014437.00
SIC,SEN		1310.00	80		014440.00
B,SERS		1304.10	00		014440.40
BZB,11.31,\$+2.		13.37	80	014443.34 00	014441.00
SIC,SEN		1310.00	80		014442.00
B,SERS		1304.10	00		014442.40
BZB,11.32,\$+2.		13.40	80	014445.34 00	014443.00
SIC,SEN		1310.00	80		014444.00
B,SERS		1304.10	00		014444.40
BD,\$+1.0		14446.04	00		014445.00
B,SAP7E		14276.50	00		014445.40
SIC,SEN0+.32		1311.40	80		014446.00
B,SSW		1301.10	00		014446.40

14453

-LOAD DOUBLE TEST ROUTINE F207
-ARITHMETIC CHECKS F207A

FLD1	BD,S+.32	14447.44	00		014447.00
F207S	L%BU, F207	21756.00	80	000000.20 50	014447.40
	ST%BU, DPET13	1437.00	80	000000.20 D0	014450.40
	SIC, RET1	1306.40	80		014451.40
	B, IDF1	1443.10	00		014452.00
SAP8	B, S+.32-LOAD ALL ONES OPER AND F207A1	14453.10	00		014452.40
	Z, SL	10.22	00		014453.00
	C1111%BU, 64, FPK1	22006.00	80	000000.36 70	014453.40
	DL%U, FPK1	22006.44	60		014454.40
	CT0110%BU, 60, FPK1, 68-WAS L 0-59 LOADED CORRECTLY F207A1A	22006.00	80	074042.15 70	014455.00
	SIC, SEN	1310.00	80		014456.00
	BRGZ, SERS	1304.35	42		014456.40
	CT0110%BU, 48, FPK0, 20-WERE ACC. BITS 60-107 F207A1B	22005.00	80	060012.15 70	014457.00
	SIC, SEN	1310.00	80		014460.00
	BRGZ, SERS -SET TO ZERO	1304.35	42		014460.40
	B, S+.32-LOAD ALL ZEROS OPERAND F207A2	14461.50	00		014461.00
	C1111%BU, 64, FPK1	22006.00	80	000000.36 70	014461.40
	DL%U, FPK0	22005.44	60		014462.40
	CT0110%BU, 60, FPK0, 68-WAS L0-59 LOADED CORRECTLY F207A2A	22005.00	80	074042.15 70	014463.00
	SIC, SEN	1310.00	80		014464.00
	BRGZ, SERS	1304.35	42		014464.40
	CT0110%BU, 48, FPK0, 20-WERE ACC. BITS 60-107 F207A2B	22005.00	80	060012.15 70	014465.00
	SIC, SEN	1310.00	80		014466.00
	BRGZ, SERS -SET TO ZERO	1304.35	42		014466.40
	-NORMALIZATION MODIFIER				
	B, S+.32-EXPONENT OF OPND IN XFP RANGE F207A3	14467.50	00		014467.00
F207A3	DL%N, FK21	22167.04	60		014467.40
	CT0110%BU, 60, FK21, 68	22167.00	80	074042.15 70	014470.00
	SIC, SEN	1310.00	80		014471.00
	BRGZ, SERS-ERROR IF RESULT NORMALIZED	1304.35	42		014471.40
	CT0110%BU, 48, FPK0, 20	22005.00	80	060012.15 70	014472.00
	SIC, SEN	1310.00	80		014473.00
	BRGZ, SERS	1304.35	42		014473.40
	B, S+.32-EXPONENT OF OPND IN XFN RANGE F207A4	14474.50	00		014474.00
	DL%N, FK30	22200.04	60		014474.40
	CT0110%BU, 60, FK30, 68	22200.00	80	074042.15 70	014475.00
	SIC, SEN	1310.00	80		014476.00
	BRGZ, SERS-ERROR IF RESULT NORMALIZED	1304.35	42		014476.40
	CT0110%BU, 48, FPK0, 20	22005.00	80	060012.15 70	014477.00
	SIC, SEN	1310.00	80		014500.00
	BRGZ, SERS	1304.35	42		014500.40
	B, S+.32-EXPONENT OF OPND IN N RANGE F207A5	14501.50	00		014501.00
	DL%N, FPK10	22017.04	60		014501.40
	CT0110%BU, 60, FPK9, 68	22016.00	80	074042.15 70	014502.00
	SIC, SEN	1310.00	80		014503.00
	BRGZ, SERS-CHECK FOR NORMALIZED RESULT	1304.35	42		014503.40
	CT0110%BU, 48, FPK0, 20	22005.00	80	060012.15 70	014504.00
	SIC, SEN	1310.00	80		014505.00
	BRGZ, SERS	1304.35	42		014505.40
	BD, S+1.0	14507.04	00		014506.00
	B, FLD1	14447.10	00		014506.40
	SIC, SEN0+.32	1311.40	80		014507.00
	B, SSW	1301.10	00		014507.40

-UNCHANGED REGISTERS F207B

		- \$R 44-63 REMAINS ONES	F207B1		
F207B1	BD,\$+.32		14510.44	00	014510.00
	C1111%BU,64,FPK1,64		22006.00	80 000040.36 70	014510.40
	C1111%BU,64,FPK1		22006.00	80 000000.36 70	014511.40
	DL%U,FPK0		22005.44	60	014512.40
	CT0110%BU,20,FPK1		22006.00	80 024000.15 70	014513.00
	SIC,SEN		1310.00	80	014514.00
	BRGZ,SERS		1304.35	42	014514.40
	B,\$+.32-\$R 44-63,0 S REMAIN 0 S F207B2		14515.50	00	014515.00
	C0000%BU,64,FPK0,64		22005.00	80 000040.00 70	014515.40
	C0000%BU,64,FPK0		22005.00	80 000000.00 70	014516.40
	DL%U,FPK1		22006.44	60	014517.40
	CT0110%BU,20,FPK0		22005.00	80 024000.15 70	014520.00
	SIC,SEN		1310.00	80	014521.00
	BRGZ,SERS		1304.35	42	014521.40
	B,\$+1.		14523.10	00	014522.00
	B,F207B1		14510.10	00	014522.40
	SIC,SEN0+.32		1311.40	80	014523.00
	B,SSW		1301.10	00	014523.40

-CHANGED REGISTERS F207C

		- \$SB 5-7 ONES TO ZEROS			
F207C	BD,\$+.32		14524.44	00	014524.00
	CM1111%BU,8,10.		12.00	80 010000.36 F0	014524.40
	DL%U,FPK1		22006.44	60	014525.40
	CT0011%BU,3,10.5		12.05	80 003000.07 70	014526.00
	SIC,SEN		1310.00	80	014527.00
	BRGZ,SERS		1304.35	42	014527.40

-INDICATOR TEST F207D

		- DATA FLAGS TF UF VF SET TO 0 F207D1			
F207D	BB1,\$TF,\$+1.		13.43	80 014531.34 0E	014530.00
	BB1,\$UF,\$+1.		13.44	80 014532.34 0E	014531.00
	BB1,\$VF,\$+1.		13.45	80 014533.34 0E	014532.00
	DL%U,FPK2		22007.44	60	014533.00
	SIC,SEN		1310.00	80	014533.40
	BTF,SERS-ERROR IF DATA FLAG INDICATORS		1304.21	C2	014534.00
	SIC,SEN		1310.00	80	014534.40
	BUF,SERS-NOT SET TO ZERO		1304.22	42	014535.00
	SIC,SEN		1310.00	80	014535.40
	BVF,SERS		1304.22	C2	014536.00
		- DATA FLAGS TF UF VF SET TO 1 F207D2			
	Z,\$IND		13.22	00	014536.40
	DL%U,FPK1		22006.44	60	014537.00
	SIC,SEN		1310.00	80	014537.40
	BZTF,SERS-ERROR IF DATA FLAG INDICATORS		1304.21	C0	014540.00
	SIC,SEN		1310.00	80	014540.40
	BZUF,SERS-NOT SET TO ONES		1304.22	40	014541.00
	SIC,SEN		1310.00	80	014541.40
	BZVF,SERS		1304.22	C0	014542.00

B, \$+1.

B, F207C

SIC, SEN0+.32

B, SSW

14543.50 00

14524.10 00

1311.40 80

1301.10 00

014542.40

014543.00

014543.40

014544.00

-LOAD DOUBLE WITH FLAG TEST ROUTINE F207E

		- LOAD 1 S OPND WITH FLAGS+0		F207E1	
F207E	BD,S+.32	14545.04	00		014544.40
	C0000%BU,FPK0,64	22005.00	80	000040.00 70	014545.00
	C1111%BU,64,FPK1	22006.00	80	000000.36 70	014546.00
	CM1111%BU,64,10.0	12.00	80	000000.36 F0	014547.00
	BB1,STF,S+1.	13.43	80	014551.34 OE	014550.00
	BB1,SUF,S+1.	13.44	80	014552.34 OE	014551.00
	BB1,\$VF,S+1.	13.45	80	014553.34 OE	014552.00
	DLWF%U,FPK2	22007.46	60		014553.00
	CT0110%BU,60,FPK1,68-CHECK L 0-59S1 S F207E1A	22006.00	80	074042.15 70	014553.40
	SIC,SEN	1310.00	80		014554.40
	BRGZ,SERS	1304.35	42		014555.00
	CT0110%BU,48,FPK0,20-CHECK ACC.BITS 60-107 F207E1B	22005.00	80	060012.15 70	014555.40
	SIC,SEN	1310.00	80		014556.40
	BRGZ,SERS-SET TO ZERO	1304.35	42		014557.00
	CT0110%BU,20,FPK1-CHECK R 44-63 REMAIN UNCHANGED F207E1C	22006.00	80	024000.15 70	014557.40
	SIC,SEN	1310.00	80		014560.40
	BRGZ,SERS	1304.35	42		014561.00
	CT0011%BU,3,10.5-CHECK SSB FLAG BITS F207E1D	12.05	80	003000.07 70	014561.40
	SIC,SEN	1310.00	80		014562.40
	BRGZ,SERS-SET TO ZERO	1304.35	42		014563.00
	SIC,SEN	1310.00	80		014563.40
	BTF,SERS-ERROR IF DATA FLAG INDICATORS F207E1E	1304.21	C2		014564.00
	SIC,SEN	1310.00	80		014564.40
	BUF,SERS-NOT SET TO ZERO	1304.22	42		014565.00
	SIC,SEN	1310.00	80		014565.40
	BVF,SERS	1304.22	C2		014566.00
		- LOAD 0 S OPND WITH FLAGS+7		F207E2	
	C1111%BU,64,FPK1,64	22006.00	80	000040.36 70	014566.40
	C1111%BU,64,FPK1	22006.00	80	000000.36 70	014567.40
	CM0000%BU,8,10.0	12.00	80	010000.00 F0	014570.40
	Z,SIND	13.22	00		014571.40
	DLWF%U,FK0	22142.46	60		014572.00
	CT0110%BU,60,FPK0,68-CHECK L0-59+0 S F207E2A	22005.00	80	074042.15 70	014572.40
	SIC,SEN	1310.00	80		014573.40
	BRGZ,SERS	1304.35	42		014574.00
	CT0110%BU,48,FPK0,20-CHECK ACC. BITS 60-107 F207E2B	22005.00	80	060012.15 70	014574.40
	SIC,SEN	1310.00	80		014575.40
	BRGZ,SERS-SET TO ZERO	1304.35	42		014576.00
	CT0110%BU,20,FPK1-CHECK R 44-63 REMAIN UNCHANGED F207E2C	22006.00	80	024000.15 70	014576.40
	SIC,SEN	1310.00	80		014577.40
	BRGZ,SERS	1304.35	42		014600.00
	CT1100%BU,3,10.5-CHECK SSB FLAG BITS F207E2D	12.05	80	003000.31 70	014600.40
	SIC,SEN	1310.00	80		014601.40
	BRGZ,SERS-SET TO ONES	1304.35	42		014602.00
	SIC,SEN	1310.00	80		014602.40
	BZTF,SERS-ERROR IF DATA FLAG INDICATORS F207E2E	1304.21	C0		014603.00
	SIC,SEN	1310.00	80		014603.40
	BZUF,SERS-NOT SET TO ONES	1304.22	40		014604.00
	SIC,SEN	1310.00	80		014604.40
	BZVF,SERS	1304.22	C0		014605.00
	B,S+1.	14606.50	00		014605.40
	B,F207E	14544.50	00		014606.00
	SIC,SEN0+.32	1311.40	80		014606.40
	B,SSW	1301.10	00		014607.00

-ADD DOUBLE TEST ROUTINE F208
 -ARITHMETIC CHECKS F208A

FAD1	BD,\$+.32		14610.04	00			014607.40
F208S	L%BU, F208		21757.00	80	000000.20	50	014610.00
	ST%BU, DPET13		1437.00	80	000000.20	00	014611.00
	SIC, RET1		1306.40	80			014612.00
	B, IDF1		1443.10	00			014612.40
SAP9	B,\$+.32-EXP. MEM + 48 + EXP. ACC.	F208A1	14613.50	00			014613.00
	DL%U, FPK31		22044.44	60			014613.40
	C0011%BU, 48, FPK32+.12, 20		22045.14	80	060012.06	70	014614.00
	D+%U, FPK32-CARRIES IN THE 48 LOW ORDER FRACTION POSITIONS		22045.44	20			014615.00
	CT0110%BU, 48, FPK33+.12, 20-TEST LOW ORDER FRAC. BITS		22046.14	80	060012.15	70	014615.40
	SIC, SEN		1310.00	80			014616.40
	BRGZ, SERS		1304.35	42			014617.00
	CT0110%BU, 48, FPK34+.12, 68-TEST HIGH ORDER FRAC. BITS		22047.14	80	060042.15	70	014617.40
	SIC, SEN		1310.00	80			014620.40
	BRGZ, SERS		1304.35	42			014621.00
	CT0110%BU, 12, FPK31, 116-TEST EXPONENT + 50		22044.00	80	014072.15	70	014621.40
	SIC, SEN		1310.00	80			014622.40
	BRGZ, SERS		1304.35	42			014623.00
	B,\$+.32-EXP. MEM + EXP. ACC.	F208A2	14624.10	00			014623.40
	DL%U, FPK21		22032.44	60			014624.00
	D+%U, FPK21-CARRIES IN THE 48 HIGH ORDER FRACTION POSITIONS		22032.44	20			014624.40
	CT0110%BU, 48, FPK31+.12, 20-TEST LOW ORDER FRAC. BITS		22044.14	80	060012.15	70	014625.00
	SIC, SEN		1310.00	80			014626.00
	BRGZ, SERS		1304.35	42			014626.40
	CT0110%BU, 48, FPK33+.12, 68-TEST HIGH ORDER FRAC. BITS		22046.14	80	060042.15	70	014627.00
	SIC, SEN		1310.00	80			014630.00
	BRGZ, SERS		1304.35	42			014630.40
	SIC, SEN		1310.00	80			014631.00
	BZLC, SERS-TO CHECK FOR HIGH ORDER CARRY		1304.13	40			014631.40
	CT0110%BU, 12, FPK21, 116-TEST EXPONENT + 50		22032.00	80	014072.15	70	014632.00
	SIC, SEN		1310.00	80			014633.00
	BRGZ, SERS		1304.35	42			014633.40
	B,\$+.32-EXP. MEM + 48 + EXP. ACC.	F208A3	14634.50	00			014634.00
	DL%U, FPK31		22044.44	60			014634.40
	C0011%BU, 48, FPK19+.12, 20		22030.14	80	060012.06	70	014635.00
	D+%U, FPK35-CARRIES IN ALTERNATE LOW ORDER FRACTION POSITIONS		22050.44	20			014636.00
	CT0110%BU, 48, FPK36+.12, 20-TEST LOW ORDER FRAC. BITS		22051.14	80	060012.15	70	014636.40
	SIC, SEN		1310.00	80			014637.40
	BRGZ, SERS		1304.35	42			014640.00
	CT0110%BU, 48, FPK34+.12, 68-TEST HIGH ORDER FRAC. BITS		22047.14	80	060042.15	70	014640.40
	SIC, SEN		1310.00	80			014641.40
	BRGZ, SERS		1304.35	42			014642.00
	CT0110%BU, 12, FPK31, 116-TEST EXPONENT + 50		22044.00	80	014072.15	70	014642.40
	SIC, SEN		1310.00	80			014643.40
	BRGZ, SERS		1304.35	42			014644.00
	B,\$+.32-EXP. MEM + EXP. ACC.	F208A4	14645.10	00			014644.40
	DL%U, FPK37		22052.44	60			014645.00
	D+%U, FPK37-CARRIES IN ALTERNATE POSITIONS OF FRACTION		22052.44	20			014645.40
	CT0110%BU, 48, FPK31+.12, 20-TEST LOW ORDER FRAC. BITS		22044.14	80	060012.15	70	014646.00
	SIC, SEN		1310.00	80			014647.00
	BRGZ, SERS		1304.35	42			014647.40
	CT0110%BU, 48, FPK36+.12, 68-TEST HIGH ORDER FRAC. BITS		22051.14	80	060042.15	70	014650.00
	SIC, SEN		1310.00	80			014651.00
	BRGZ, SERS		1304.35	42			014651.40
	SIC, SEN		1310.00	80			014652.00
	BZLC, SERS-TO CHECK FOR THE HIGH ORDER CARRY		1304.13	40			014652.40
	CT0110%BU, 12, FPK37, 116-TEST EXPONENT + 50		22052.00	80	014072.15	70	014653.00
	SIC, SEN		1310.00	80			014654.00
	BRGZ, SERS		1304.35	42			014654.40
	B,\$+.32-EXP. MEM + 48 + EXP. ACC.	F208A5	14655.50	00			014655.00

05
 62+ 60-107 1's
 62+ 59-105 1's
 pic 10 16 REG (12)

	DL%U□, FPK31				22044.44	60			014655.40
	C0011%BU, 48□, FPK38+, 12, 20				22053.14	80	060012.06	70	014656.00
	D+%U□, FPK39-CARRIES IN REMAINING ALTERNATE POSITIONS OF FRACT.				22054.44	20			014657.00
	CT0110%BU, 48□, FPK37+, 12, 20-TEST LOW ORDER FRAC. BITS				22052.14	80	060012.15	70	014657.40
	SIC, SEN				1310.00	80			014660.40
	BRGZ, SERS				1304.35	42			014661.00
	CT0110%BU, 48□, FPK31+, 12, 68-TEST HIGH ORDER FRAC. BITS				22044.14	80	060042.15	70	014661.40
	SIC, SEN				1310.00	80			014662.40
	BRGZ, SERS				1304.35	42			014663.00
	CT0110%BU, 12□, FPK31, 116-TEST EXPONENT + 50				22044.00	80	014072.15	70	014663.40
	SIC, SEN				1310.00	80			014664.40
	BRGZ, SERS				1304.35	42			014665.00
	B, s+, 32-EXP. MEM + EXP. ACC.		F208A6		14666.10	00			014665.40
	DL%U□, FPK38				22053.44	60			014666.00
	D+%U□, FPK38-CARRIES IN REMAINING ALTERNATE POSITIONS OF FRACT.				22053.44	20			014666.40
	CT0110%BU, 48□, FPK31+, 12, 20-TEST LOW ORDER FRAC. BITS				22044.14	80	060012.15	70	014667.00
	SIC, SEN				1310.00	80			014670.00
	BRGZ, SERS				1304.35	42			014670.40
	CT0110%BU, 48□, FPK37+, 12, 68-TEST HIGH ORDER FRAC. BITS				22052.14	80	060042.15	70	014671.00
	SIC, SEN				1310.00	80			014672.00
	BRGZ, SERS				1304.35	42			014672.40
	CT0110%BU, 12□, FPK38, 116-TEST EXPONENT + 50				22053.00	80	014072.15	70	014673.00
	SIC, SEN				1310.00	80			014674.00
	BRGZ, SERS				1304.35	42			014674.40
SAP9A	DL%U□, FPK31	- EXP MEM + EXP ACC ++48	F208A7		22044.44	60			014675.00
	C0011%BU, 48□, FPK36+, 12, 20				22051.14	80	060012.06	70	014675.40
	D+%U□, FPK35				22050.44	20			014676.40
	CT0110%BU, 48□, FPK33+, 12, 20-TEST LOW ORDER FRAC. BITS				22046.14	80	060012.15	70	014677.00
	SIC, SEN				1310.00	80			014700.00
	BRGZ, SERS				1304.35	42			014700.40
	CT0110%BU, 48□, FPK31+, 12, 68-TEST HIGH ORDER FRAC. BITS				22044.14	80	060042.15	70	014701.00
	SIC, SEN				1310.00	80			014702.00
	BRGZ, SERS				1304.35	42			014702.40
	CT0110%BU, 12□, FPK31, 116-TEST EXPONENT + 50				22044.00	80	014072.15	70	014703.00
	SIC, SEN				1310.00	80			014704.00
	BRGZ, SERS				1304.35	42			014704.40
	B, s+, 32-EXP. MEM+EXP. ACC		F208A8		14705.50	00			014705.00
	DL%U□, FPK38				22053.44	60			014705.40
	D+%U□, FPK37				22052.44	20			014706.00
	CT0110%BU, 48□, FPK31+, 12, 20-TEST LOW ORDER FRAC. BITS				22044.14	80	060012.15	70	014706.40
	SIC, SEN				1310.00	80			014707.40
	BRGZ, SERS				1304.35	42			014710.00
	CT0110%BU, 48□, FPK32+, 12, 68-TEST HIGH ORDER FRAC. BITS				22045.14	80	060042.15	70	014710.40
	SIC, SEN				1310.00	80			014711.40
	BRGZ, SERS				1304.35	42			014712.00
	CT0110%BU, 12□, FPK38, 116-TEST EXPONENT + 50				22053.00	80	014072.15	70	014712.40
	SIC, SEN				1310.00	80			014713.40
	BRGZ, SERS				1304.35	42			014714.00
	B, s+, 32-EXP. ACC+48+EXP. MEM		F208A9		14715.10	00			014714.40
	DL%U□, FPK32				22045.44	60			014715.00
	D+%U□, FPK21				22032.44	20			014715.40
	CT0110%BU, 48□, FPK21+, 12, 20-TEST LOW ORDER FRAC. BITS				22032.14	80	060012.15	70	014716.00
	SIC, SEN				1310.00	80			014717.00
	BRGZ, SERS				1304.35	42			014717.40
	CT0110%BU, 48□, FPK21+, 12, 68-TEST HIGH ORDER FRAC. BITS				22032.14	80	060042.15	70	014720.00
	SIC, SEN				1310.00	80			014721.00
	BRGZ, SERS				1304.35	42			014721.40
	CT0110%BU, 12□, FPK21, 116-TEST EXPONENT + 50				22032.00	80	014072.15	70	014722.00
	SIC, SEN				1310.00	80			014723.00
	BRGZ, SERS				1304.35	42			014723.40
SAP9B	DL%U□, FK35	- EXP++2047 EXPS IN XFP RNG	F208A10		22205.44	60			014724.00
	C0011%BU, 48□, FK34+, 12, 20				22204.14	80	060012.06	70	014724.40
	D+%U□, FK46-EXP++1997				22220.44	20			014725.40
	CT0110%BU, 60□, FK35, 68-TEST RESULT+OPND WITH +2047 EXP.				22205.00	80	074042.15	70	014726.00
	SIC, SEN				1310.00	80			014727.00
	BRGZ, SERS				1304.35	42			014727.40

	CT0110%BU,48□,FK34+.12,20		22204.14	80	060012.15	70	014730.00
	SIC,SEN		1310.00	80			014731.00
	BRGZ,SERS		1304.35	42			014731.40
	B,\$+.32-EXPONENTS OF OPNDS IN XFP AND N RANGES	F208A11	14732.50	00			014732.00
	DL%U□,FK36-EXP++1024		22206.44	60			014732.40
	D+%U□,FK38-EXP++1023		22210.44	20			014733.00
	CT0110%BU,60□,FK36,68-TEST RESULT+OPND WITH +1024 EXP		22206.00	80	074042.15	70	014733.40
	SIC,SEN		1310.00	80			014734.40
	BRGZ,SERS		1304.35	42			014735.00
	CT0110%BU,48□,FK35+.12,20		22205.14	80	060012.15	70	014735.40
	SIC,SEN		1310.00	80			014736.40
	BRGZ,SERS		1304.35	42			014737.00
	B,\$+.32-EXPONENTS OF OPNDS IN XFP AND XFN RANGES	F208A12	14740.10	00			014737.40
	DL%U□,FK35-EXP++2047		22205.44	60			014740.00
	C0011%BU,48□,FK34+.12,20		22204.14	80	060012.06	70	014740.40
	D+%U□,FK25-EXP+-1791		22173.44	20			014741.40
	CT0110%BU,60□,FK35,68		22205.00	80	074042.15	70	014742.00
	SIC,SEN		1310.00	80			014743.00
	BRGZ,SERS		1304.35	42			014743.40
	CT0110%BU,48□,FK34+.12,20		22204.14	80	060012.15	70	014744.00
	SIC,SEN		1310.00	80			014745.00
	BRGZ,SERS		1304.35	42			014745.40
	B,\$+.32-EXPONENTS OF OPNDS IN N AND XFN RANGES	F208A13	14746.50	00			014746.00
	DL%U□,FK31-EXP++50		22044.44	60			014746.40
	C0011%BU,48□,FK32+.12,20		22045.14	80	060012.06	70	014747.00
	D+%U□,FK2-EXP+-2047		22007.44	20			014750.00
	CT0110%BU,60□,FK31,68 -TEST RESULT+OPND WITH +50 EXP		22044.00	80	074042.15	70	014750.40
	SIC,SEN		1310.00	80			014751.40
	BRGZ,SERS		1304.35	42			014752.00
	CT0110%BU,48□,FK32+.12,20		22045.14	80	060012.15	70	014752.40
	SIC,SEN		1310.00	80			014753.40
	BRGZ,SERS		1304.35	42			014754.00
SAP9C	DL%U□,FK31 - EXP+-2047 EXPS IN XFN RNG	F208A14	22201.44	60			014754.40
	D+%U□,FK30-EXP+-1791		22200.44	20			014755.00
	CT0110%BU,60□,FK30,68-TEST RESULT+OPND WITH-1791 EXP		22200.00	80	074042.15	70	014755.40
	SIC,SEN		1310.00	80			014756.40
	BRGZ,SERS		1304.35	42			014757.00
	CT0110%BU,48□,FK35+.12,20		22205.14	80	060012.15	70	014757.40
	SIC,SEN		1310.00	80			014760.40
	BRGZ,SERS		1304.35	42			014761.00
	-						
	-TEST NORMALIZATION MODIFIER						
	-						
	B,\$+.32-EXPONENTS OF OPNDS IN XFP RANGE	F208A15	14762.10	00			014761.40
	DL%U□,FK26-EXP++2047		22174.44	60			014762.00
	D+%N□,FK27-EXP++1791		22175.04	20			014762.40
	CT0110%BU,60□,FK26,68-TEST RESULT+OPND WITH+2047 EXP		22174.00	80	074042.15	70	014763.00
	SIC,SEN		1310.00	80			014764.00
	BRGZ,SERS-ERROR IF RESULT NORMALIZED		1304.35	42			014764.40
	CT0110%BU,48□,FK35+.12,20		22205.14	80	060012.15	70	014765.00
	SIC,SEN		1310.00	80			014766.00
	BRGZ,SERS		1304.35	42			014766.40
	B,\$+.32-EXPONENTS OF OPNDS IN XFP AND N RANGES	F208A16	14767.50	00			014767.00
	DL%U□,FK26-EXP++2047		22174.44	60			014767.40
	D+%N□,FK39-EXP+-1023		22211.04	20			014770.00
	CT0110%BU,60□,FK26,68-TEST RESULT+OPND WITH +2047 EXP		22174.00	80	074042.15	70	014770.40
	SIC,SEN		1310.00	80			014771.40
	BRGZ,SERS-ERROR IF RESULT NORMALIZED		1304.35	42			014772.00
	CT0110%BU,48□,FK35+.12,20		22205.14	80	060012.15	70	014772.40
	SIC,SEN		1310.00	80			014773.40
	BRGZ,SERS		1304.35	42			014774.00
	B,\$+.32-EXPONENTS OF OPNDS IN XFP AND XFN RANGES	F208A17	14775.10	00			014774.40
	DL%U□,FK26-EXP++2047		22174.44	60			014775.00
	D+%N□,FK30-EXP+-1791		22200.04	20			014775.40
	CT0110%BU,60□,FK26,68-TEST RESULT+OPND WITH +2047 EXP		22174.00	80	074042.15	70	014776.00
	SIC,SEN		1310.00	80			014777.00

	BRGZ,SERS-ERROR IF RESULT NORMALIZED		1304.35	42		014777.40
	CT0110%BU,48,FK35+.12,20		22205.14	80	060012.15 70	015000.00
	SIC,SEN		1310.00	80		015001.00
	BRGZ,SERS		1304.35	42		015001.40
	B,\$+.32-EXPONENTS OF OPNDS IN XFN RANGE	F208A18	15002.50	00		015002.00
	DL%U,FK31-EXP+-2047		22201.44	60		015002.40
	D+%N,FK30-EXP+-1791		22200.04	20		015003.00
	CT0110%BU,60,FK30,68-TEST RESULT+OPND WITH-1791 EXP		22200.00	80	074042.15 70	015003.40
	SIC,SEN		1310.00	80		015004.40
	BRGZ,SERS-ERROR IF RESULT NORMALIZED		1304.35	42		015005.00
	CT0110%BU,48,FK35+.12,20		22205.14	80	060012.15 70	015005.40
	SIC,SEN		1310.00	80		015006.40
	BRGZ,SERS		1304.35	42		015007.00
	B,\$+.32-EXPONENTS OF OPNDS IN N AND XFN RANGES	F208A19	15010.10	00		015007.40
	DL%U,FK14-EXP++13		22023.44	60		015010.00
	C0011%BU,48,FK4+.12,20		22011.14	80	060012.06 70	015010.40
	D+%N,FK2-EXP+-2047		22007.04	20		015011.40
	CT0110%BU,60,FK3,68-ERROR IF RESULT OPND WITH EXP		22010.00	80	074042.15 70	015012.00
	SIC,SEN		1310.00	80		015013.00
	BRGZ,SERS-IN N RANGE NOT NORMALIZED		1304.35	42		015013.40
	CT0110%BU,48,FK15+.12,20		22024.14	80	060012.15 70	015014.00
	SIC,SEN		1310.00	80		015015.00
	BRGZ,SERS		1304.35	42		015015.40
	B,\$+.32-EXPONENTS OF OPNDS IN N RANGE	F208A20	15016.50	00		015016.00
	DL%U,FK47		22221.44	60		015016.40
	C0011%BU,48,FK37+.12,20		22052.14	80	060012.06 70	015017.00
	D+%N,FK39		22054.04	20		015020.00
	CT0110%BU,12,FK101,116		22306.00	80	014072.15 70	015020.40
	SIC,SEN		1310.00	80		015021.40
	BRGZ,SERS-RESULT NORMALIZED		1304.35	42		015022.00
	CT0110%BU,48,FK46+.12,68		22220.14	80	060042.15 70	015022.40
	SIC,SEN		1310.00	80		015023.40
	BRGZ,SERS		1304.35	42		015024.00
	CT0110%BU,48,FK48+.12,20		22222.14	80	060012.15 70	015024.40
	SIC,SEN		1310.00	80		015025.40
	BRGZ,SERS		1304.35	42		015026.00
	BD,\$+1.0		15027.44	00		015026.40
	B,FAD1		14607.50	00		015027.00
	SIC,SEN0+.32		1311.40	80		015027.40
	B,SSW -	SSW	1301.10	00		015030.00

- TESTS OF SIGN AND MODIFIER COMBINATIONS F208B

	-MS+MEM.SIGN,ACS+ACC.SIGN,N AND A ARE MODIFIERS					
SAP9D	DL%U,FK21 - MS+ACS+N+A+0	F208B1	22032.44	60		015030.40
	C0011%BU,48,FK35+.12,20		22050.14	80	060012.06 70	015031.00
	D+%U,FK39		22054.44	20		015032.00
	CT0110%BU,48,FK21+.12,20-TEST LOWORDER FRACT.BITS+1 S		22032.14	80	060012.15 70	015032.40
	SIC,SEN		1310.00	80		015033.40
	BRGZ,SERS		1304.35	42		015034.00
	CT0110%BU,48,FK21+.12,68-TEST HIGH ORDER FRACT.BITS+1 S		22032.14	80	060042.15 70	015034.40
	SIC,SEN		1310.00	80		015035.40
	BRGZ,SERS		1304.35	42		015036.00
	BZB,10.04,\$+2.0 - TEST SIGN BIT + 0		12.04	80	015040.74 00	015036.40
	SIC,SEN		1310.00	80		015037.40
	B,SERS		1304.10	00		015040.00
DOR1	B,\$+.32-MS+ACS+N+0,A+1	F208B2	15041.10	00		015040.40
	DL%U,FK21		22032.44	60		015041.00
	C0011%BU,48,FK35+.12,20		22050.14	80	060012.06 70	015041.40
	D+A%U,FK39		22054.64	20		015042.40
	CT0110%BU,48,FK21+.12,20-TEST LOW ORDER FRACTION+1 S		22032.14	80	060012.15 70	015043.00
	SIC,SEN		1310.00	80		015044.00
	BRGZ,SERS		1304.35	42		015044.40
	CT0110%BU,48,FK21+.12,68-TEST HIGH ORDER FRACT.+1 S		22032.14	80	060042.15 70	015045.00
	SIC,SEN		1310.00	80		015046.00
	BRGZ,SERS		1304.35	42		015046.40

	BZB,10.04,\$+2.0	- TEST SIGN BIT + 0	12.04	80	015051.34	00	015047.00
	SIC,SEN		1310.00	80			015050.00
	B, SERS		1304.10	00			015050.40
	B,\$+.32-MS+ACS+A+0,N+1	F208B3	15051.50	00			015051.00
DOR2	DL%U□,FPK38		22053.44	60			015051.40
	C0011%BU,48□,FPK37+.12,20		22052.14	80	060012.06	70	015052.00
	D-%U□,FPK39		22054.54	20			015053.00
	CT0110%BU,48□,FPK39+.12,20-TEST LOW ORDER FRACT+0101...01		22054.14	80	060012.15	70	015053.40
	SIC,SEN		1310.00	80			015054.40
	BRGZ,SERS		1304.35	42			015055.00
	CT0110%BU,48□,FPK39+.12,68-TEST HIGH ORDER FRACT+0101...01		22054.14	80	060042.15	70	015055.40
	SIC,SEN		1310.00	80			015056.40
	BRGZ,SERS		1304.35	42			015057.00
	BZB,10.04,\$+2.0	- TEST SIGN BIT + 0	12.04	80	015061.74	00	015057.40
	SIC,SEN		1310.00	80			015060.40
	B, SERS		1304.10	00			015061.00
	B,\$+.32-MS+ACS+0,N+A+1	F208B4	15062.10	00			015061.40
DOR3	DL%U□,FPK38		22053.44	60			015062.00
	C0011%BU,48□,FPK37+.12,20		22052.14	80	060012.06	70	015062.40
	D-A%U□,FPK39		22054.74	20			015063.40
	CT0110%BU,48□,FPK39+.12,20-TEST LOW ORDER FRACT+0101...01		22054.14	80	060012.15	70	015064.00
	SIC,SEN		1310.00	80			015065.00
	BRGZ,SERS		1304.35	42			015065.40
	CT0110%BU,48□,FPK39+.12,68-TEST HIGH ORDER FRACT.+0101...01		22054.14	80	060042.15	70	015066.00
	SIC,SEN		1310.00	80			015067.00
	BRGZ,SERS		1304.35	42			015067.40
	BZB,10.4,\$+2.0	- TEST SIGN BIT + 0	12.04	80	015072.34	00	015070.00
	SIC,SEN		1310.00	80			015071.00
	B, SERS		1304.10	00			015071.40
	DLN%U□,FPK38	- MS+N+A+0 ACS+1	F208B5	22053.54	60		015072.00
	C0011%BU,48□,FPK37+.12,20		22052.14	80	060012.06	70	015072.40
	D+%U□,FPK39		22054.44	20			015073.40
	CT0110%BU,48□,FPK39+.12,20-TEST LOW ORDER FRACT+0101...01		22054.14	80	060012.15	70	015074.00
	SIC,SEN		1310.00	80			015075.00
	BRGZ,SERS		1304.35	42			015075.40
	CT0110%BU,48□,FPK39+.12,68-TEST HIGH ORDER FRACT+0101...01		22054.14	80	060042.15	70	015076.00
	SIC,SEN		1310.00	80			015077.00
	BRGZ,SERS		1304.35	42			015077.40
	BB,10.04,\$+2.0	- TEST SIGN BIT + 1	12.04	80	015102.34	02	015100.00
	SIC,SEN		1310.00	80			015101.00
	B, SERS		1304.10	00			015101.40
	B,\$+.32-MS+1,ACS+N+A+0	F208B6	15102.50	00			015102.00
DOR5	DL%U□,FPK38		22053.44	60			015102.40
	C0011%BU,48□,FPK37+.12,20		22052.14	80	060012.06	70	015103.00
	D+%U□,FPK40		22055.44	20			015104.00
	CT0110%BU,48□,FPK39+.12,20-TEST LOW ORDER FRACT+0101...01		22054.14	80	060012.15	70	015104.40
	SIC,SEN		1310.00	80			015105.40
	BRGZ,SERS		1304.35	42			015106.00
	CT0110%BU,48□,FPK39+.12,68-TEST HIGH ORDER FRACT+0101...01		22054.14	80	060042.15	70	015106.40
	SIC,SEN		1310.00	80			015107.40
	BRGZ,SERS		1304.35	42			015110.00
	BZB,10.04,\$+2.0	- TEST SIGN BIT+0	12.04	80	015112.74	00	015110.40
	SIC,SEN		1310.00	80			015111.40
	B, SERS		1304.10	00			015112.00
	B,\$+.32-MS+ACS+N+A+1	F208B7	15113.10	00			015112.40
DOR6	DLN%U□,FPK21		22032.54	60			015113.00
	C0011%BU,48□,FPK35+.12,20		22050.14	80	060012.06	70	015113.40
	D-A%U□,FPK40		22055.74	20			015114.40
	CT0110%BU,48□,FPK21+.12,20-TEST LOW ORDER FRACT+1 S		22032.14	80	060012.15	70	015115.00
	SIC,SEN		1310.00	80			015116.00
	BRGZ,SERS		1304.35	42			015116.40
	CT0110%BU,48□,FPK21+.12,68-TEST HIGH ORDER FRACT.+1 S		22032.14	80	060042.15	70	015117.00
	SIC,SEN		1310.00	80			015120.00
	BRGZ,SERS		1304.35	42			015120.40
	BB,10.04,\$+2.0	- TEST SIGN BIT + 1	12.04	80	015123.34	02	015121.00
	SIC,SEN		1310.00	80			015122.00

	B, SERS		1304.10 00	015122.40
BD, S+1.0			15124.04 00	015123.00
	B, SAP9D		15030.50 00	015123.40
SIC, SENC+.32			1311.40 80	015124.00
	B, SSW		1301.10 00	015124.40

-TEST UNCHANGED REGISTERS F208C

FAD4	Z, SL	- R 44-63 AND \$SB 5-7 REM 0	F208C1	10.22 00	015125.00
	Z, SR			11.22 00	015125.40
	Z, SSB			12.22 00	015126.00
	D+%U, FPK50			22067.44 20	015126.40
	CT0101%BU, 20, FPK0-DOES R44-63 REMAIN+0 S			22005.00 80 024000.13 70	015127.00
	SIC, SEN			1310.00 80	015130.00
	BRGZ, SERS			1304.35 42	015130.40
	CT0011%BU, 3, 10.5-DO BITS 5-7 OF SB REMAIN + 0 S			12.05 80 003000.07 70	015131.00
	SIC, SEN			1310.00 80	015132.00
	BRGZ, SERS			1304.35 42	015132.40
	B, S+.32-1 S REMAIN 1 S, R44-63 AND SB5-7		F208C2	15133.50 00	015133.00
	C1111%BU, 64, FPK1, 64			22006.00 80 000040.36 70	015133.40
	C1111%BU, 64, FPK1			22006.00 80 000000.36 70	015134.40
	CM1111%BU, 8, 10.0			12.00 80 010000.36 F0	015135.40
	D+%U, FPK0			22005.44 20	015136.40
	CT1010%BU, 20, FPK1-DOES R44-63 REMAIN+1 S			22006.00 80 024000.25 70	015137.00
	SIC, SEN			1310.00 80	015140.00
	BRGZ, SERS			1304.35 42	015140.40
	CT1100%BU, 3, 10.5-DO BITS 5-7 OF SB REMAIN+1 S			12.05 80 003000.31 70	015141.00
	SIC, SEN			1310.00 80	015142.00
	BRGZ, SERS			1304.35 42	015142.40
	BD, S+1.0			15144.04 00	015143.00
	B, FAD4			15125.10 00	015143.40
	SIC, SENC+.32			1311.40 80	015144.00
	B, SSW			1301.10 00	015144.40

-INDICATOR TESTS F208D

SAP9F	BLCZ, S+.32	- TEST LC IND ON UNMORM	F208D1	15145.53 46	015145.00
	DL%U, FPK21			22032.44 60	015145.40
	D+%U, FPK21			22032.44 20	015146.00
	SIC, SEN			1310.00 80	015146.40
	BZLC, SERS -ERROR IF LC NOT ON			1304.13 40	015147.00
	B, S+.32-TEST LC IND.OFF,NORMALIZED		F208D2	15150.10 00	015147.40
	BLCZ, S+.32			15150.53 46	015150.00
	DL%U, FPK21			22032.44 60	015150.40
	D+%N, FPK21			22032.04 20	015151.00
	SIC, SEN			1310.00 80	015151.40
	BLC, SERS -ERROR IF LC ON			1304.13 42	015152.00
	B, S+.32-TEST LS IND., ON CONDITION		F208D3	15153.10 00	015152.40
	BLSZ, S+.32			15153.55 46	015153.00
	DL%U, FPK31			22044.44 60	015153.40
	C0011%BU, 48, FPK33+.12, 20			22046.14 80 060012.06 70	015154.00
	D-%U, FPK33-PRODUCES ZERO RESULT FRACT, NEITHER OPND IS ZERO			22046.54 20	015155.00
	SIC, SEN			1310.00 80	015155.40
	BZLS, SERS -ERROR IF LS NOT ON			1304.15 40	015156.00
	BLSZ, S+.32	- TEST LS IND OFF	F208D4	15157.15 46	015156.40
	DL%U, FPK0			22005.44 60	015157.00
	D+%U, FPK0-PRODUCES ZERO RESULT FRACT, BOTH OPNDS ZERO			22005.44 20	015157.40
	SIC, SEN			1310.00 80	015160.00
	BLS, SERS -ERROR IF LS ON			1304.15 42	015160.40
	BLSZ, S+.32	- TEST LS IND ON	F208D5	15161.55 46	015161.00
	DL%U, FPK21			22032.44 60	015161.40
	C0011%BU, 48, FPK41+.12, 20			22056.14 80 060012.06 70	015162.00
	D+%U, FPK42			22057.44 20	015163.00
	SIC, SEN			1310.00 80	015163.40
	BZLS, SERS -ERROR IF LS IND OFF			1304.15 40	015164.00
	B, S+.32-TEST LS IND, OFF CONDITION		F208D6	15165.10 00	015164.40

BLSZ,\$+.32-RESULT CONTAINS EF+1
 DL%U□,FK35-EXP++2047
 D+%U□,FK32-EXP++46
 SIC,SEN

15165.55 46
 22205.44 60
 22202.44 20
 1310.00 80
 1304.15 42

015165.00
 015165.40
 015166.00
 015166.40
 015167.00

BLS,SERS -ERROR IF LS ON

-TEST EXPONENT RANGE INDICATORS

SAP9G

- TEST XPPF ON
 DL%U□,FK23
 Z,\$IND
 D+%U□,FK24-EXP++1791
 BB,11.28,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.29,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.30,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.31,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.32,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.33,\$+2.
 SIC,SEN

F208D7

22171.44 60
 13.22 00
 22172.44 20
 13.34 80 015173.34 02
 1310.00 80
 1304.10 00
 13.35 80 015175.34 00
 1310.00 80
 1304.10 00
 13.36 80 015177.34 00
 1310.00 80
 1304.10 00
 13.37 80 015201.34 00
 1310.00 80
 1304.10 00
 13.40 80 015203.34 00
 1310.00 80
 1304.10 00
 13.41 80 015205.34 00
 1310.00 80

015167.40
 015170.00
 015170.40
 015171.00
 015172.00
 015172.40
 015173.00
 015174.00
 015174.40
 015175.00
 015176.00
 015176.40
 015177.00
 015200.00
 015200.40
 015201.00
 015202.00
 015202.40
 015203.00
 015204.00

F208D8

B,\$+.32-TEST XPO,ON CONDITION
 DL%U□,FK38-EXP++1023
 Z,\$IND
 D+%U□,FK38-EXP++1023
 BB,11.29,\$+2.-ERROR IF XPO INDICATOR OFF AND,
 SIC,SEN
 B,SERS-OTHER EXPONENT INDS. ON
 BZB,11.28,\$+2.0
 SIC,SEN
 B,SERS
 BZB,11.30,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.31,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.32,\$+2.
 SIC,SEN
 B,SERS

15205.50 00
 22210.44 60
 13.22 00
 22210.04 20
 13.35 80 015211.34 02
 1310.00 80
 1304.10 00
 13.34 80 015213.34 00
 1310.00 80
 1304.10 00
 13.36 80 015215.34 00
 1310.00 80
 1304.10 00
 13.37 80 015217.34 00
 1310.00 80
 1304.10 00
 13.40 80 015221.34 00
 1310.00 80
 1304.10 00

015204.40
 015205.00
 015205.40
 015206.00
 015206.40
 015207.00
 015210.00
 015210.40
 015211.00
 015212.00
 015212.40
 015213.00
 015214.00
 015214.40
 015215.00
 015216.00
 015216.40
 015217.00
 015220.00
 015220.40

F208D9

B,\$+.32-TEST XPH,ON CONDITION
 DL%U□,FK25-EXP+-1791
 Z,\$IND
 D+%U□,FK22-EXP++512
 BB,11.30,\$+2.-ERROR IF XPH IND. OFF AND,
 SIC,SEN
 B,SERS-OTHER EXPONENT INDS. ON
 BZB,11.28,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.29,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.31,\$+2.
 SIC,SEN
 B,SERS
 BZB,11.32,\$+2.
 SIC,SEN

15221.50 00
 22173.44 60
 13.22 00
 22170.44 20
 13.36 80 015225.34 02
 1310.00 80
 1304.10 00
 13.34 80 015227.34 00
 1310.00 80
 1304.10 00
 13.35 80 015231.34 00
 1310.00 80
 1304.10 00
 13.37 80 015233.34 00
 1310.00 80
 1304.10 00
 13.40 80 015235.34 00
 1310.00 80

015221.00
 015221.40
 015222.00
 015222.40
 015223.00
 015224.00
 015224.40
 015225.00
 015226.00
 015226.40
 015227.00
 015230.00
 015230.40
 015231.00
 015232.00
 015232.40
 015233.00
 015234.00

B,SERS		1304.10	00		015234.40
B,\$+.32-TEST XPL,ON CONDITION	F208D10	15235.50	00		015235.00
DL%U□,FPK28-EXP++256		22041.44	60		015235.40
Z,\$IND		13.22	00		015236.00
D+%U□,FPK27-EXP+-2047		22040.44	20		015236.40
BB,11.31,\$+2.-ERROR IF XPL IND. OFF AND,		13.37	80	015241.34 02	015237.00
SIC,SEN		1310.00	80		015240.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00		015240.40
BZB,11.28,\$+2.		13.34	80	015243.34 00	015241.00
SIC,SEN		1310.00	80		015242.00
B,SERS		1304.10	00		015242.40
BZB,11.29,\$+2.		13.35	80	015245.34 00	015243.00
SIC,SEN		1310.00	80		015244.00
B,SERS		1304.10	00		015244.40
BZB,11.30,\$+2.		13.36	80	015247.34 00	015245.00
SIC,SEN		1310.00	80		015246.00
B,SERS		1304.10	00		015246.40
BZB,11.32,\$+2.		13.40	80	015251.34 00	015247.00
SIC,SEN		1310.00	80		015250.00
B,SERS		1304.10	00		015250.40
B,\$+.32-TEST XPU,ON CONDITION	F208D11	15251.50	00		015251.00
DL%U□,FK39-EXP+-1023		22211.44	60		015251.40
Z,\$IND		13.22	00		015252.00
D+%U□,FK39-EXP+-1023		22211.04	20		015252.40
BB,11.32,\$+2.-ERROR IF XPU IND. OFF AND,		13.40	80	015255.34 02	015253.00
SIC,SEN		1310.00	80		015254.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00		015254.40
BZB,11.28,\$+2.		13.34	80	015257.34 00	015255.00
SIC,SEN		1310.00	80		015256.00
B,SERS		1304.10	00		015256.40
BZB,11.29,\$+2.		13.35	80	015261.34 00	015257.00
SIC,SEN		1310.00	80		015260.00
B,SERS		1304.10	00		015260.40
BZB,11.30,\$+2.		13.36	80	015263.34 00	015261.00
SIC,SEN		1310.00	80		015262.00
B,SERS		1304.10	00		015262.40
BZB,11.31,\$+2.		13.37	80	015265.34 00	015263.00
SIC,SEN		1310.00	80		015264.00
B,SERS		1304.10	00		015264.40
BD,\$+1.0		15266.04	00		015265.00
B,SAP9F		15145.10	00		015265.40
SIC,SEN0+.32		1311.40	80		015266.00
B,SSW -	SSW	1301.10	00		015266.40

FADM1	L%BU, F209	21760.00	80	000000.20	50	015267.00
	ST%BU, DPET13	1437.00	80	000000.20	D0	015270.00
	SIC, RET1	1306.40	80			015271.00
	B, IDE1	1443.10	00			015271.40
	-ADD DOUBLE TO MAGNITUDE TEST ROUTINE F209					
	-ARITHMETIC CHECKS F209A					
SAP10	B, \$+.32-EXPONENTS OF OPERANDS IN XFP RANGE F209A1	15272.50	00			015272.00
	DL%U, FK23-EXP++2047	22171.44	60			015272.40
	C0011%BU, 48, FK23+.12, 20	22171.14	80	060012.06	70	015273.00
	D+MG%U, FK46-EXP++1997	22220.46	20			015274.00
	CT0110%BU, 60, FK23, 68-TEST RESULT+OPND WITH+2047 EXP.	22171.00	80	074042.15	70	015274.40
	SIC, SEN	1310.00	80			015275.40
	BRGZ, SERS	1304.35	42			015276.00
	CT0110%BU, 48, FK23+.12, 20	22171.14	80	060012.15	70	015276.40
	B, \$+.32-EXPONENTS OF OPNDS IN XFP AND N RANGES F209A2	15300.10	00			015277.40
	DL%U, FK36-EXP++1024	22206.44	60			015300.00
	C0011%BU, 48, FK36+.12, 20	22206.14	80	060012.06	70	015300.40
	D+MG%U, FK38-EXP++1023	22210.46	20			015301.40
	CT0110%BU, 60, FK36, 68-TEST RESULT+OPND WITH+2047 EXP.	22206.00	80	074042.15	70	015302.00
	SIC, SEN	1310.00	80			015303.00
	BRGZ, SERS	1304.35	42			015303.40
	CT0110%BU, 48, FK36+.12, 20	22206.14	80	060012.15	70	015304.00
	SIC, SEN	1310.00	80			015305.00
	BRGZ, SERS	1304.35	42			015305.40
	B, \$+.32-EXPONENTS OF OPERANDS IN XFP AND XFN RANGES F209A3	15306.50	00			015306.00
	DL%U, FK24-EXP++1791	22172.44	60			015306.40
	C0011%BU, 48, FK24+.12, 20	22172.14	80	060012.06	70	015307.00
	D+MG%U, FK25-EXP+-1791	22173.46	20			015310.00
	CT0110%BU, 60, FK24, 68-TEST RESULT+OPND WITH+1791 EXP	22172.00	80	074042.15	70	015310.40
	SIC, SEN	1310.00	80			015311.40
	BRGZ, SERS	1304.35	42			015312.00
	CT0110%BU, 48, FK24+.12, 20	22172.14	80	060012.15	70	015312.40
	SIC, SEN	1310.00	80			015313.40
	BRGZ, SERS	1304.35	42			015314.00
	B, \$+.32-EXPONENT OF OPERANDS IN N AND XFP RANGES F209A4	15315.10	00			015314.40
	DL%U, FK38-EXP++1023	22210.44	60			015315.00
	C0011%BU, 48, FK38+.12, 20	22210.14	80	060012.06	70	015315.40
	D+MG%U, FK36-EXP++1024	22206.46	20			015316.40
	CT0110%BU, 60, FK36, 68-TEST RESULT+OPND WITH+1024 EXP.	22206.00	80	074042.15	70	015317.00
	SIC, SEN	1310.00	80			015320.00
	BRGZ, SERS	1304.35	42			015320.40
	CT0110%BU, 48, FPK0+.12, 20-TEST LOW ORDER FRACT.+0 S	22005.14	80	060012.15	70	015321.00
	SIC, SEN	1310.00	80			015322.00
	BRGZ, SERS	1304.35	42			015322.40
	B, \$+.32-EXPONENTS OF OPNDS IN N RANGE F209D5	15323.50	00			015323.00
	DL%U, FPK21-EXP++50	22032.44	60			015323.40
	C0011%BU, 48, FPK38+.12, 20	22053.14	80	060012.06	70	015324.00
	D+MG%U, FPK35-EXP++2	22050.46	20			015325.00
	CT0110%BU, 60, FPK21, 68-TEST HIGH ORDER RESULT FRACT.+1 S	22032.00	80	074042.15	70	015325.40
	SIC, SEN	1310.00	80			015326.40
	BRGZ, SERS	1304.35	42			015327.00
	CT0110%BU, 48, FPK21+.12, 20-TEST LOW ORDER RESULT FRACT+1 S	22032.14	80	060012.15	70	015327.40
	SIC, SEN	1310.00	80			015330.40
	BRGZ, SERS	1304.35	42			015331.00
	B, \$+.32-EXPONENTS OF OPNDS IN N AND XFN RANGES F209D6	15332.10	00			015331.40
	DL%U, FK38-EXP++1023	22210.44	60			015332.00
	C0011%BU, 48, FK38+.12, 20	22210.14	80	060012.06	70	015332.40
	D+MG%U, FK49-EXP+-1024	22223.46	20			015333.40
	CT0110%BU, 60, FK38, 68-TEST RESULT+OPND WITH +1023 EXP.	22210.00	80	074042.15	70	015334.00
	SIC, SEN	1310.00	80			015335.00
	BRGZ, SERS	1304.35	42			015335.40
	CT0110%BU, 48, FK38+.12, 20	22210.14	80	060012.15	70	015336.00

diag 71

SIC,SEN		1310.00	80		015337.00
BRGZ,SERS		1304.35	42		015337.40
B,\$+.32-EXPONENTS OF OPNDS IN XFN AND XFP RANGES F209A7		15340.50	00		015340.00
DL%U□,FK25-EXP+-1791		22173.44	60		015340.40
C0011%BU,48□,FK25+.12,20		22173.14	80	060012.06	015341.00
D+MG%U□,FK24-EXP++1791		22172.46	20		015342.00
CT0110%BU,60□,FK24,68-TEST RESULT+OPND WITH+1791 EXP		22172.00	80	074042.15	015342.40
SIC,SEN		1310.00	80		015343.40
BRGZ,SERS		1304.35	42		015344.00
CT0110%BU,48□,FK0+.12,20-TEST LOW ORDER RESULT FRACT.+0		22005.14	80	060012.15	015344.40
SIC,SEN		1310.00	80		015345.40
BRGZ,SERS		1304.35	42		015346.00
B,\$+.32-EXPONENTS OF OPNDS IN XFN AND N RANGES F209A8		15347.10	00		015346.40
DL%U□,FK49-EXP+-1024		22223.44	60		015347.00
C0011%BU,48□,FK49+.12,20		22223.14	80	060012.06	015347.40
D+MG%U□,FK38-EXP++1023		22210.46	20		015350.40
CT0110%BU,60□,FK38,68-TEST RESULT+OPND WITH+1023 EXP.		22210.00	80	074042.15	015351.00
SIC,SEN		1310.00	80		015352.00
BRGZ,SERS		1304.35	42		015352.40
CT0110%BU,48□,FK0+.12,20-TEST LOW ORDER RESULT FRACT+0		22005.14	80	060012.15	015353.00
SIC,SEN		1310.00	80		015354.00
BRGZ,SERS		1304.35	42		015354.40
B,\$+.32-EXPONENTS OF OPNDS IN XFN RANGE F209A9		15355.50	00		015355.00
DL%U□,FK50-EXP+-1997		22224.44	60		015355.40
C0011%BU,48□,FK50+.12,20		22224.14	80	060012.06	015356.00
D+MG%U□,FK2-EXP+-2047		22007.46	20		015357.00
CT0110%BU,60□,FK50,68-TEST RESULT+OPND WITH-1997 EXP		22224.00	80	074042.15	015357.40
SIC,SEN		1310.00	80		015360.40
BRGZ,SERS		1304.35	42		015361.00
CT0110%BU,48□,FK50+.12,20		22224.14	80	060012.15	015361.40
SIC,SEN		1310.00	80		015362.40
BRGZ,SERS		1304.35	42		015363.00
BD,\$+1.0		15364.44	00		015363.40
B,FADM1		15267.10	00		015364.00
SIC,SEN0+.32		1311.40	80		015364.40
B,SSW - SSW		1301.10	00		015365.00
-TESTS OF SIGN AND MODIFIER COMBINATIONS F209B					
-THE FOLLOWING PROGRAMS EACH HAVE A CODE MS, ACS, N AND A					
-MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS					
- MS+ACS+N+A+0 F209B1					
FADM2	DL%U□,FPK21	22032.44	60		015365.40
	C0011%BU,48□,FPK35+.12,20	22050.14	80	060012.06	015366.00
	D+MG%U□,FPK39	22054.46	20		015367.00
	CT0110%BU,48□,FPK21+.12,20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15	015367.40
SIC,SEN		1310.00	80		015370.40
BRGZ,SERS		1304.35	42		015371.00
CT0110%BU,48□,FPK21+.12,68-TEST HIGH ORDER RESULT FRACTION		22032.14	80	060042.15	015371.40
SIC,SEN		1310.00	80		015372.40
BRGZ,SERS		1304.35	42		015373.00
BZB,10.4,\$+2.0 -TEST SIGN BIT 0		12.04	80	015375.74	00
SIC,SEN		1310.00	80		015374.40
B,SERS		1304.10	00		015375.00
B,\$+.32-MS+ACS+N+0,A+1 F209B2		15376.10	00		015375.40
DL%U□,FPK21		22032.44	60		015376.00
C0011%BU,48□,FPK35+.12,20		22050.14	80	060012.06	015376.40
D+MGA%U□,FPK39		22054.66	20		015377.40
CT0110%BU,48□,FPK21+.12,20-TEST LOW ORDER RESULT FRACTION		22032.14	80	060012.15	015400.00
SIC,SEN		1310.00	80		015401.00
BRGZ,SERS		1304.35	42		015401.40
CT0110%BU,48□,FPK21+.12,68-TEST HIGH ORDER RESULT FRACTION		22032.14	80	060042.15	015402.00
SIC,SEN		1310.00	80		015403.00
BRGZ,SERS		1304.35	42		015403.40
BZB,10.4,\$+2.0 -TEST SIGN BIT 0		12.04	80	015406.34	00
SIC,SEN		1310.00	80		015405.00
B,SERS		1304.10	00		015405.40
B,\$+.32-MS+ACS+A+0,N+1 F209B3		15406.50	00		015406.00

DL%U□, FPK38	22053.44	60		015406.40
C0011%BU, 48□, FPK37+.12, 20	22052.14	80	060012.06 70	015407.00
D-MG%U□, FPK39	22054.56	20		015410.00
CTC110%BU, 48□, FPK39+.12, 20-TEST LOW ORDER RESULT FRACTION	22054.14	80	060012.15 70	015410.40
SIC, SEN	1310.00	80		015411.40
BRGZ, SERS	1304.35	42		015412.00
CT0110%BU, 48□, FPK39+.12, 68-TEST HIGH ORDER RESULT FRACTION	22054.14	80	060042.15 70	015412.40
SIC, SEN	1310.00	80		015413.40
BRGZ, SERS	1304.35	42		015414.00
BZB, 10.4, \$+2.0 -TEST SIGN BIT 0	12.04	80	015416.74 00	015414.40
SIC, SEN	1310.00	80		015415.40
B, SERS	1304.10	00		015416.00
B, \$+.32-MS+ACS+0, N+A+1 F209B4	15417.10	00		015416.40
DL%U□, FPK38	22053.44	60		015417.00
C0011%BU, 48□, FPK37+.12, 20	22052.14	80	060012.06 70	015417.40
D-MGA%U□, FPK39	22054.76	20		015420.40
CT0110%BU, 48□, FPK39+.12, 20-TEST LOW ORDER RESULT FRACTION	22054.14	80	060012.15 70	015421.00
SIC, SEN	1310.00	80		015422.00
BRGZ, SERS	1304.35	42		015422.40
CT0110%BU, 48□, FPK39+.12, 68-TEST HIGH ORDER RESULT FRACTION	22054.14	80	060042.15 70	015423.00
SIC, SEN	1310.00	80		015424.00
BRGZ, SERS	1304.35	42		015424.40
BZB, 10.4, \$+2.0 -TEST SIGN BIT 0	12.04	80	015427.34 00	015425.00
SIC, SEN	1310.00	80		015426.00
B, SERS	1304.10	00		015426.40
B, \$+.32-MS+N+A+0, ACS+1 F209B5	15427.50	00		015427.00
DLN%U□, FPK21	22032.54	60		015427.40
C0011%BU, 48□, FPK37+.12, 20	22052.14	80	060012.06 70	015430.00
D+MG%U□, FPK39	22054.46	20		015431.00
CTC110%BU, 48□, FPK21+.12, 20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15 70	015431.40
SIC, SEN	1310.00	80		015432.40
BRGZ, SERS	1304.35	42		015433.00
CT0110%BU, 48□, FPK21+.12, 68-TEST HIGH ORDER RESULT FRACTION	22032.14	80	060042.15 70	015433.40
SIC, SEN	1310.00	80		015434.40
BRGZ, SERS	1304.35	42		015435.00
BB, 10.4, \$+2.0 -TEST SIGN BIT 1	12.04	80	015437.74 02	015435.40
SIC, SEN	1310.00	80		015436.40
B, SERS	1304.10	00		015437.00
B, \$+.32-MS+N+0, ACS+A+1 F209B6	15440.10	00		015437.40
DLN%U□, FPK21	22032.54	60		015440.00
C0011%BU, 48□, FPK37+.12, 20	22052.14	80	060012.06 70	015440.40
D+MGA%U□, FPK39	22054.66	20		015441.40
CT0110%BU, 48□, FPK21+.12, 20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15 70	015442.00
SIC, SEN	1310.00	80		015443.00
BRGZ, SERS	1304.35	42		015443.40
CT0110%BU, 48□, FPK21+.12, 68-TEST HIGH ORDER RESULT FRACTION	22032.14	80	060042.15 70	015444.00
SIC, SEN	1310.00	80		015445.00
BRGZ, SERS	1304.35	42		015445.40
BB, 10.4, \$+2.0 -TEST SIGN BIT 1	12.04	80	015450.34 02	015446.00
SIC, SEN	1310.00	80		015447.00
B, SERS	1304.10	00		015447.40
B, \$+.32-MS+A+0, ACS+N+1 F209B7	15450.50	00		015450.00
DLN%U□, FPK38	22053.54	60		015450.40
C0011%BU, 48□, FPK37+.12, 20	22052.14	80	060012.06 70	015451.00
D-MG%U□, FPK39	22054.56	20		015452.00
CTC110%BU, 48□, FPK39+.12, 20-TEST LOW ORDER RESULT FRACTION	22054.14	80	060012.15 70	015452.40
SIC, SEN	1310.00	80		015453.40
BRGZ, SERS	1304.35	42		015454.00
CTC110%BU, 48□, FPK39+.12, 68-TEST HIGH ORDER RESULT FRACTION	22054.14	80	060042.15 70	015454.40
SIC, SEN	1310.00	80		015455.40
BRGZ, SERS	1304.35	42		015456.00
BB, 10.4, \$+2.0 -TEST SIGN BIT 1	12.04	80	015460.74 02	015456.40
SIC, SEN	1310.00	80		015457.40
B, SERS	1304.10	00		015460.00
B, \$+.32-MS+0, ACS+N+A+1 F209B8	15461.10	00		015460.40
DLN%U□, FPK38	22053.54	60		015461.00

C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015461.40
D-MGA%U#,FPK39	22054.76	20			015462.40
CT0110%BU,48#,FPK39+.12,20-TEST LOW ORDER RESULT FRACTION	22054.14	80	060012.15	70	015463.00
SIC,SEN	1310.00	80			015464.00
BRGZ,SERS	1304.35	42			015464.40
CT0110%BU,48#,FPK39+.12,68-TEST HIGH ORDER RESULT FRACTION	22054.14	80	060042.15	70	015465.00
SIC,SEN	1310.00	80			015466.00
BRGZ,SERS	1304.35	42			015466.40
BB,10.4,\$+2.0 -TEST SIGN BIT 1	12.04	80	015471.34	02	015467.00
SIC,SEN	1310.00	80			015470.00
B,SERS	1304.10	00			015470.40
B,\$+.32-MS+1,ACS+N+A+0 F209B9	15471.50	00			015471.00
DL%U#,FPK38	22053.44	60			015471.40
C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015472.00
D+MG%U#,FPK40	22055.46	20			015473.00
CT0110%BU,48#,FPK40+.12,20-TEST LOW ORDER RESULT FRACTION	22055.14	80	060012.15	70	015473.40
SIC,SEN	1310.00	80			015474.40
BRGZ,SERS	1304.35	42			015475.00
CT0110%BU,48#,FPK40+.12,68-TEST HIGH ORDER RESULT FRACTION	22055.14	80	060042.15	70	015475.40
SIC,SEN	1310.00	80			015476.40
BRGZ,SERS	1304.35	42			015477.00
BZB,10.4,\$+2.0 -TEST SIGN BIT 0	12.04	80	015501.74	00	015477.40
SIC,SEN	1310.00	80			015500.40
B,SERS	1304.10	00			015501.00
DL%U#,FPK21 - MS+A+1 ACS+N+0 F209B10	22032.44	60			015501.40
C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015502.00
D+MGA%U#,FK119	22330.66	20			015503.00
CT0110%BU,48#,FPK21+.12,20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15	70	015503.40
SIC,SEN	1310.00	80			015504.40
BRGZ,SERS	1304.35	42			015505.00
CT0110%BU,48#,FPK21+.12,68-TEST HIGH ORDER RESULT FRACTION	22032.14	80	060042.15	70	015505.40
SIC,SEN	1310.00	80			015506.40
BRGZ,SERS	1304.35	42			015507.00
BZB,10.4,\$+2.0 -TEST SIGN BIT 0	12.04	80	015511.74	00	015507.40
SIC,SEN	1310.00	80			015510.40
B,SERS	1304.10	00			015511.00
B,\$+.32-MS+N+1,ACS+A+0 F209B11	15512.10	00			015511.40
DL%U#,FPK21	22032.44	60			015512.00
C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015512.40
D-MG%U#,FPK40	22055.56	20			015513.40
CT0110%BU,48#,FPK21+.12,20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15	70	015514.00
SIC,SEN	1310.00	80			015515.00
BRGZ,SERS	1304.35	42			015515.40
CT0110%BU,48#,FPK21+.12,68-TEST HIGH ORDER RESULT FRACTION	22032.14	80	060042.15	70	015516.00
SIC,SEN	1310.00	80			015517.00
BRGZ,SERS	1304.35	42			015517.40
BZB,10.4,\$+2.0 -TEST SIGN BIT 0	12.04	80	015522.34	00	015520.00
SIC,SEN	1310.00	80			015521.00
B,SERS	1304.10	00			015521.40
B,\$+.32-MS+N+A+1,ACS+0 F209B12	15522.50	00			015522.00
DL%U#,FPK38	22053.44	60			015522.40
C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015523.00
D-MGA%U#,FPK40	22055.76	20			015524.00
CT0110%BU,48#,FPK40+.12,20-TEST LOW ORDER RESULT FRACTION	22055.14	80	060012.15	70	015524.40
SIC,SEN	1310.00	80			015525.40
BRGZ,SERS	1304.35	42			015526.00
CT0110%BU,48#,FPK40+.12,68-TEST HIGH ORDER RESULT FRACTION	22055.14	80	060042.15	70	015526.40
SIC,SEN	1310.00	80			015527.40
BRGZ,SERS	1304.35	42			015530.00
BZB,10.4,\$+2.0 -TEST SIGN BIT 0	12.04	80	015532.74	00	015530.40
SIC,SEN	1310.00	80			015531.40
B,SERS	1304.10	00			015532.00
B,\$+.32-MS+ACS+1,N+A+0 F209B13	15533.10	00			015532.40
DLN%U#,FPK38	22053.54	60			015533.00
C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015533.40
D+MG%U#,FPK40	22055.46	20			015534.40

CT0110%BU,48H,FPK40+.12,20-TEST LOW ORDER RESULT FRACTION	22055.14	80	060012.15	70	015535.00
SIC,SEN	1310.00	80			015536.00
BRGZ,SERS	1304.35	42			015536.40
CT0110%BU,48H,FPK40+.12,68-TEST HIGH ORDER RESULT FRACTION	22055.14	80	060042.15	70	015537.00
SIC,SEN	1310.00	80			015540.00
BRGZ,SERS	1304.35	42			015540.40
BB,10.4,\$+2.0 -TEST SIGN BIT 1	12.04	80	015543.34	02	015541.00
SIC,SEN	1310.00	80			015542.00
B,SERS	1304.10	00			015542.40
B,\$+.32-MS+ACS+A+1,N+0 F209B14	15543.50	00			015543.00
DLN%UH,FPK21	22032.54	60			015543.40
C0011%BU,48H,FPK37+.12,20	22052.14	80	060012.06	70	015544.00
D+MGA%UH,FPK40	22055.66	20			015545.00
CT0110%BU,48H,FPK21+.12,20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15	70	015545.40
SIC,SEN	1310.00	80			015546.40
BRGZ,SERS	1304.35	42			015547.00
CT0110%BU,48H,FPK21+.12,68-TEST HIGH ORDER RESULT FRACTION	22032.14	80	060042.15	70	015547.40
SIC,SEN	1310.00	80			015550.40
BRGZ,SERS	1304.35	42			015551.00
BB,10.4,\$+2.0 -TEST SIGN BIT 1	12.04	80	015553.74	02	015551.40
SIC,SEN	1310.00	80			015552.40
B,SERS	1304.10	00			015553.00
B,\$+.32-MS+ACS+N+1, A+0 F209B15	15554.10	00			015553.40
DLN%UH,FPK21	22032.54	60			015554.00
C0011%BU,48H,FPK37+.12,20	22052.14	80	060012.06	70	015554.40
D-MG%UH,FPK40	22055.56	20			015555.40
CT0110%BU,48H,FPK21+.12,20-TEST LOW ORDER RESULT FRACTION	22032.14	80	060012.15	70	015556.00
SIC,SEN	1310.00	80			015557.00
BRGZ,SERS	1304.35	42			015557.40
CT0110%BU,48H,FPK21+.12,68-TEST HIGH ORDER RESULT FRACTION	22032.14	80	060042.15	70	015560.00
SIC,SEN	1310.00	80			015561.00
BRGZ,SERS	1304.35	42			015561.40
BB,10.4,\$+2.0 -TEST SIGN BIT 1	12.04	80	015564.34	02	015562.00
SIC,SEN	1310.00	80			015563.00
B,SERS	1304.10	00			015563.40
B,\$+.32-MS+ACS+N+A+1 F209B16	15564.50	00			015564.00
DLN%UH,FPK38	22053.54	60			015564.40
C0011%BU,48H,FPK37+.12,20	22052.14	80	060012.06	70	015565.00
D-MGA%UH,FPK40	22055.76	20			015566.00
CT0110%BU,48H,FPK40+.12,20-TEST LOW ORDER RESULT FRACTION	22055.14	80	060012.15	70	015566.40
SIC,SEN	1310.00	80			015567.40
BRGZ,SERS	1304.35	42			015570.00
CT0110%BU,48H,FPK40+.12,68-TEST HIGH ORDER RESULT FRACTION	22055.14	80	060042.15	70	015570.40
SIC,SEN	1310.00	80			015571.40
BRGZ,SERS	1304.35	42			015572.00
BB,10.4,\$+2.0 -TEST SIGN BIT 1	12.04	80	015574.74	02	015572.40
SIC,SEN	1310.00	80			015573.40
B,SERS	1304.10	00			015574.00
BD,\$+1.0	15575.44	00			015574.40
B,FADM2	15365.50	00			015575.00
SIC,SEN0+.32	1311.40	80			015575.40
B,SSW -	1301.10	00			015576.00
- ---F209C---UNCHANGED REGISTERS					
- R 44-63 AND SB 0-7 REMAIN 0					
			F209C1		
FADM3 Z,\$L	10.22	00			015576.40
Z,\$R	11.22	00			015577.00
Z,\$SB	12.22	00			015577.40
D+MG%UH,FPK50	22067.46	20			015600.00
CT0101%BU,20H,FPK0-DOES R44-63 REMAIN+0 S	22005.00	80	024000.13	70	015600.40
SIC,SEN	1310.00	80			015601.40
BRGZ,SERS	1304.35	42			015602.00
CT0110%BU,8H,10.0-DOES SB0-7 REMAIN+0 S	12.00	80	010000.15	70	015602.40
SIC,SEN	1310.00	80			015603.40
BRGZ,SERS	1304.35	42			015604.00
B,\$+.32-1 S REMAIN 1 S,R44-63 AND SB0-7 F209C2	15605.10	00			015604.40
C1111%BU,64H,FPK1,64	22006.00	80	000040.36	70	015605.00

C1111%BU,64#,FPK1	22006.00	80	000000.36	70	015606.00
CM1111%BU,8#,10.0	12.00	80	010000.36	F0	015607.00
D+MG%U#,FPK0	22005.46	20			015610.00
CT1010%BU,20#,FPK1-DOES R44-63 REMAIN+1 S	22006.00	80	024000.25	70	015610.40
SIC,SEN	1310.00	80			015611.40
BRGZ,SERS	1304.35	42			015612.00
CT1100%BU,8#,10.0-DOES SB0-7 REMAIN+1 S	12.00	80	010000.31	70	015612.40
SIC,SEN	1310.00	80			015613.40
BRGZ,SERS	1304.35	42			015614.00
-TESTS OF INDICATORS F209D					
B,\$+.32-RLZ AND RN ON F209D1	15615.10	00			015614.40
DLN%U#,FPK31-L12-59+0, LR60-107 UNEQUAL TO 0	22044.54	60			015615.00
C0011%BU,48#,FPK37+.12,20	22052.14	80	060012.06	70	015615.40
D+MG%U#,FPK39	22054.46	20			015616.40
SIC,SEN	1310.00	80			015617.00
BZRLZ,SERS-ERROR IF RLZ OFF	1304.34	40			015617.40
SIC,SEN	1310.00	80			015620.00
BZRN,SERS-ERROR IF RN OFF	1304.35	C0			015620.40
SIC,SEN	1310.00	80			015621.00
BRGZ,SERS-ERROR IF RZ ON	1304.35	42			015621.40
SIC,SEN	1310.00	80			015622.00
BRGZ,SERS	1304.35	42			015622.40
B,\$+.32-RLZ AND RN ON F209D2	15623.50	00			015623.00
DLN%U#,FPK37-L12-59 UNEQUAL TO 0, LR60-107+0	22052.54	60			015623.40
D+MG%U#,FPK38	22053.46	20			015624.00
SIC,SEN	1310.00	80			015624.40
BZRLZ,SERS-ERROR IF RLZ INDICATOR OFF	1304.34	40			015625.00
SIC,SEN	1310.00	80			015625.40
BZRN,SERS-ERROR IF RN INDICATOR OFF	1304.35	C0			015626.00
SIC,SEN	1310.00	80			015626.40
BRZ,SERS-ERROR IF RZ INDICATOR ON	1304.34	C2			015627.00
SIC,SEN	1310.00	80			015627.40
BRGZ,SERS	1304.35	42			015630.00
B,\$+.32-RZ INDICATOR ON F209D3	15631.10	00			015630.40
C1111%BU,64#,FPK1-R44-63 UNEQUAL TO 0	22006.00	80	000000.36	70	015631.00
DL%U#,FPK0-L12-59+0, LR60-107+0	22005.44	60			015632.00
D+MG%U#,FPK0	22005.46	20			015632.40
SIC,SEN	1310.00	80			015633.00
BZRZ,SERS-ERROR IF RZ INDICATOR OFF	1304.34	C0			015633.40
SIC,SEN	1310.00	80			015634.00
BRLZ,SERS-ERROR IF RLZ INDICATOR ON	1304.34	42			015634.40
SIC,SEN	1310.00	80			015635.00
BRN,SERS-ERROR IF RN INDICATOR ON	1304.35	C2			015635.40
SIC,SEN	1310.00	80			015636.00
BRGZ,SERS	1304.35	42			015636.40
B,\$+.32-RGZ INDICATOR ON F209D4	15637.50	00			015637.00
DL%U#,FPK31-L12-59+0, LR60-107 UNEQUAL TO 0	22044.44	60			015637.40
D+MG%U#,FPK32	22045.46	20			015640.00
SIC,SEN	1310.00	80			015640.40
BZRGZ,SERS-ERROR IF RGZ INDICATOR OFF	1304.35	40			015641.00
SIC,SEN	1310.00	80			015641.40
BRLZ,SERS-ERROR IF RLZ INDICATOR ON	1304.34	42			015642.00
SIC,SEN	1310.00	80			015642.40
BRN,SERS-ERROR IF RN INDICATOR ON	1304.35	C2			015643.00
SIC,SEN	1310.00	80			015643.40
BRZ,SERS -ERROR IF RZ INDICATOR ON	1304.34	C2			015644.00
B,\$+.32-RGZ INDICATOR ON F209D5	15645.10	00			015644.40
DL%U#,FPK37-L12-59 UNEQUAL TO 0, LR60-107+0	22052.44	60			015645.00
D+MG%U#,FPK38	22053.46	20			015645.40
SIC,SEN	1310.00	80			015646.00
BZRGZ,SERS-ERROR IF RGZ INDICATOR OFF	1304.35	40			015646.40
SIC,SEN	1310.00	80			015647.00
BRLZ,SERS-ERROR IF RLZ INDICATOR ON	1304.34	42			015647.40
SIC,SEN	1310.00	80			015650.00
BRN,SERS-ERROR IF RN INDICATOR ON	1304.35	C2			015650.40
SIC,SEN	1310.00	80			015651.00

	BRZ,SERS	-ERROR IF RZ INDICATOR ON	1304.34	C2		015651.40
	B,\$+.32-LS	INDICATOR ON F209D6	15652.50	00		015652.00
	BLSZ,\$+.32		15653.15	46		015652.40
	DL%U□,FPK31		22044.44	60		015653.00
	C0011%BU,48□,FPK32+.12,20		22045.14	80	060012.06 70	015653.40
	D-MG%U□,FPK32		22045.56	20		015654.40
	SIC,SEN		1310.00	80		015655.00
	BZLS,SERS	-ERROR IF LS INDICATOR NOT ON	1304.15	40		015655.40
	B,\$+.32-LS	INDICATOR OFF F209D7	15656.50	00		015656.00
	BLSZ,\$+.32		15657.15	46		015656.40
	DL%U□,FPK0		22005.44	60		015657.00
	D+MG%U□,FPK0		22005.46	20		015657.40
	SIC,SEN		1310.00	80		015660.00
	BLS,SERS	-ERROR IF LS INDICATOR ON	1304.15	42		015660.40
	B,\$+.32-LS	INDICATOR OFF F209D8	15661.50	00		015661.00
	BLSZ,\$+.32		15662.15	46		015661.40
	DL%U□,FPK21		22032.44	60		015662.00
	C0011%BU,48□,FPK41+.12,20		22056.14	80	060012.06 70	015662.40
	D+MG%U□,FPK42		22057.46	20		015663.40
	SIC,SEN		1310.00	80		015664.00
	BZLS,SERS	- ERROR IF LS IND OFF	1304.15	40		015664.40
	B,\$+.32-TEST	LS IND.,OFF CONDITION	15665.50	00		015665.00
	BLSZ,\$+.32		15666.15	46		015665.40
	DL%U□,FK35		22205.44	60		015666.00
	D+MG%U□,FK38-RESULT	CONTAINS PROPAGATED EF+1	22210.46	20		015666.40
	SIC,SEN		1310.00	80		015667.00
	BLS,SERS	-ERROR IF LS INDICATOR ON	1304.15	42		015667.40
	BD,\$+1.0		15671.04	00		015670.00
	B,FADM3		15576.50	00		015670.40
	SIC,SEN0+.32		1311.40	80		015671.00
	B,SSW	-	1301.10	00		015671.40
	----F209E	---TEST FORCED ZERO RESULT				
					F209E1	
FADM4	DL%U□,FPK38		22053.44	60		015672.00
	D-MG%U□,FPK37		22052.56	20		015672.40
	CT0110%BU,48□,FPK0+.12,20-TEST	LOW ORDER RESULT FRACTION+0	22005.14	80	060012.15 70	015673.00
	SIC,SEN		1310.00	80		015674.00
	BRGZ,SERS		1304.35	42		015674.40
	CT0110%BU,48□,FPK0+.12,68-TEST	HIGH ORDER RESULT FRACTION+0	22005.14	80	060042.15 70	015675.00
	SIC,SEN		1310.00	80		015676.00
	BRGZ,SERS		1304.35	42		015676.40
	BZB,10.4,\$+2.0	-TEST SIGN BIT 0	12.04	80	015701.34 00	015677.00
	SIC,SEN		1310.00	80		015700.00
	B,SERS		1304.10	00		015700.40
	B,\$+.32-MS+ACS+0, N+A+1	F209E2	15701.50	00		015701.00
	DL%U□,FPK38		22053.44	60		015701.40
	D-MGA%U□,FPK37		22052.76	20		015702.00
	CT0110%BU,48□,FPK0+.12,20-TEST	LOW ORDER RESULT FRACTION+0	22005.14	80	060012.15 70	015702.40
	SIC,SEN		1310.00	80		015703.40
	BRGZ,SERS		1304.35	42		015704.00
	CT0110%BU,48□,FPK0+.12,68-TEST	HIGH ORDER RESULT FRACTION+0	22005.14	80	060042.15 70	015704.40
	SIC,SEN		1310.00	80		015705.40
	BRGZ,SERS		1304.35	42		015706.00
	BZB,10.4,\$+2.0	-TEST SIGN BIT 0	12.04	80	015710.74 00	015706.40
	SIC,SEN		1310.00	80		015707.40
	B,SERS		1304.10	00		015710.00
	B,\$+.32-MS+A+0, ACS+N+1	F209E3	15711.10	00		015710.40
	DLN%U□,FPK38		22053.54	60		015711.00
	D-MG%U□,FPK37		22052.56	20		015711.40
	CT0110%BU,48□,FPK0+.12,20-TEST	LOW ORDER RESULT FRACTION+0	22005.14	80	060012.15 70	015712.00
	SIC,SEN		1310.00	80		015713.00
	BRGZ,SERS		1304.35	42		015713.40
	CT0110%BU,48□,FPK0+.12,68-TEST	HIGH ORDER RESULT FRACTION+0	22005.14	80	060042.15 70	015714.00
	SIC,SEN		1310.00	80		015715.00
	BRGZ,SERS		1304.35	42		015715.40
	BB,10.4,\$+2.0	-TEST SIGN BIT 1	12.04	80	015720.34 02	015716.00

SIC,SEN				1310.00	80			015717.00
B,SERS				1304.10	00			015717.40
B,\$+.32-MS+0, ACS+N+A+1 F209E4				15720.50	00			015720.00
DLN%U□,FPK38				22053.54	60			015720.40
D-MGA%U□,FPK37				22052.76	20			015721.00
CT0110%BU,48□,FPK0+.12,20-TEST LOW ORDER RESULT FRACTION+0				22005.14	80	060012.15	70	015721.40
SIC,SEN				1310.00	80			015722.40
BRGZ,SERS				1304.35	42			015723.00
CT0110%BU,48□,FPK0+.12,68-TEST HIGH ORDER RESULT FRACTION+0				22005.14	80	060042.15	70	015723.40
SIC,SEN				1310.00	80			015724.40
BRGZ,SERS				1304.35	42			015725.00
BB,10.4,\$+2.0			-TEST SIGN BIT 1	12.04	80	015727.74	02	015725.40
SIC,SEN				1310.00	80			015726.40
BRGZ,SERS				1304.35	42			015727.00
DL%U□,FPK38			- MS+1 ACS+N+A+0 F209E5	22053.44	60			015727.40
D+MG%U□,FPK43				22060.46	20			015730.00
CT0110%BU,48□,FPK0+.12,20-TEST LOW ORDER RESULT FRACTION+0				22005.14	80	060012.15	70	015730.40
SIC,SEN				1310.00	80			015731.40
BRGZ,SERS				1304.35	42			015732.00
CT0110%BU,48□,FPK0+.12,68-TEST HIGH ORDER RESULT FRACTION+0				22005.14	80	060042.15	70	015732.40
SIC,SEN				1310.00	80			015733.40
BRGZ,SERS				1304.35	42			015734.00
BZB,10.4,\$+2.0			-TEST SIGN BIT 0	12.04	80	015736.74	00	015734.40
SIC,SEN				1310.00	80			015735.40
B,SERS				1304.10	00			015736.00
B,\$+.32-MS+N+A+1, ACS+0 F209E6				15737.10	00			015736.40
DL%U□,FPK38				22053.44	60			015737.00
D-MGA%U□,FPK43				22060.76	20			015737.40
CT0110%BU,48□,FPK0+.12,20-TEST LOW ORDER RESULT FRACTION+0				22005.14	80	060012.15	70	015740.00
SIC,SEN				1310.00	80			015741.00
BRGZ,SERS				1304.35	42			015741.40
CT0110%BU,48□,FPK0+.12,68-TEST HIGH ORDER RESULT FRACTION+0				22005.14	80	060042.15	70	015742.00
SIC,SEN				1310.00	80			015743.00
BRGZ,SERS				1304.35	42			015743.40
BZB,10.4,\$+2.0			-TEST SIGN BIT 0	12.04	80	015746.34	00	015744.00
SIC,SEN				1310.00	80			015745.00
B,SERS				1304.10	00			015745.40
B,\$+.32-MS+ACS+1, N+A+0 F209E7				15746.50	00			015746.00
DLN%U□,FPK38				22053.54	60			015746.40
D+MG%U□,FPK43				22060.46	20			015747.00
CT0110%BU,48□,FPK0+.12,20-TEST LOW ORDER RESULT FRACTION+0				22005.14	80	060012.15	70	015747.40
SIC,SEN				1310.00	80			015750.40
BRGZ,SERS				1304.35	42			015751.00
CT0110%BU,48□,FPK0+.12,68-TEST HIGH ORDER RESULT FRACTION+0				22005.14	80	060042.15	70	015751.40
SIC,SEN				1310.00	80			015752.40
BRGZ,SERS				1304.35	42			015753.00
BB,10.4,\$+2.0			-TEST SIGN BIT 1	12.04	80	015755.74	02	015753.40
SIC,SEN				1310.00	80			015754.40
B,SERS				1304.10	00			015755.00
B,\$+.32-MS+ACS+N+A+1 F209E8				15756.10	00			015755.40
DLN%U□,FPK38				22053.54	60			015756.00
D-MGA%U□,FPK43				22060.76	20			015756.40
CT0110%BU,48□,FPK0+.12,20-TEST LOW ORDER RESULT FRACTION+0				22005.14	80	060012.15	70	015757.00
SIC,SEN				1310.00	80			015760.00
BRGZ,SERS				1304.35	42			015760.40
CT0110%BU,48□,FPK0+.12,68-TEST HIGH ORDER RESULT FRACTION+0				22005.14	80	060042.15	70	015761.00
SIC,SEN				1310.00	80			015762.00
BRGZ,SERS				1304.35	42			015762.40
BB,10.4,\$+2.0			-TEST SIGN BIT 1	12.04	80	015765.34	02	015763.00
SIC,SEN				1310.00	80			015764.00
B,SERS				1304.10	00			015764.40
B,\$+.32-TEST LS IND.,OFF CONDITION F209E9				15765.50	00			015765.00
BLSZ,\$+.32				15766.15	46			015765.40
DLN%U□,FPK38				22053.54	60			015766.00
D-MGA%U□,FPK43-FORCED ZERO RESULT				22060.76	20			015766.40
SIC,SEN				1310.00	80			015767.00

BLS,SERS -ERROR IF LS INDICATOR ON
BD,S+1.0
B,FADM4
SIC,SENO+.32

1304.15 42
15771.04 00
15672.10 00
1311.40 80
1301.10 00

015767.40
015770.00
015770.40
015771.00
015771.40

B,SSW -

SSW

	-STORE ROUNDED TEST ROUTINE	F210					
	-ARITHMETIC CHECKS	F210A					
FSR1	L%BU, F210		21761.00	80	000000.20	50	015772.00
	ST%BU, DPET13		1437.00	80	000000.20	D0	015773.00
	SIC, RET1		1306.40	80			015774.00
	B, IDF1		1443.10	00			015774.40
SAP11	B, \$+.32-EXPONENT OF OPERAND IN XFP RANGE	F210A1	15775.50	00			015775.00
	DL%U, FPK26 - EXP++2047		22037.44	60			015775.40
	C0011%BU, 48, FK40+.12, 20		22212.14	80	060012.06	70	015776.00
	SRD%U, ROS		22355.42	E0			015777.00
	L%BU, FK35		22205.00	80	000000.20	50	015777.40
	CT0110%BU, 60, ROS, 4 - ERROR IF 1 NOT ADDED IN BIT POS 60		22355.00	80	074002.15	70	016000.40
	SIC, SEN		1310.00	80			016001.40
	BRGZ, SERS-OF ACCUMULATOR		1304.35	42			016002.00
	BZB, ROS+.60, \$+2.0 - CHECK SIGN BIT + 0		22355.74	80	016004.74	00	016002.40
	SIC, SEN		1310.00	80			016003.40
	B, SERS		1304.10	00			016004.00
	B, \$+.32-EXPONENT OF OPERAND IN XFN RANGE	F210A2	16005.10	00			016004.40
	DL%U, FK25-EXP + -1791		22173.44	60			016005.00
	C0011%BU, 48, FK25+.12, 20		22173.14	80	060012.06	70	016005.40
	SRD%U, ROS		22355.42	E0			016006.40
	L%BU, FPK59		22100.00	80	000000.20	50	016007.00
	CT0110%BU, 60, ROS, 4 - ERROR IF 1 NOT ADDED IN BIT POS 60		22355.00	80	074002.15	70	016010.00
	SIC, SEN		1310.00	80			016011.00
	BRGZ, SERS-OF ACCUMULATOR		1304.35	42			016011.40
	BZB, ROS+.60, \$+2.0		22355.74	80	016014.34	00	016012.00
	SIC, SEN		1310.00	80			016013.00
	B, SERS		1304.10	00			016013.40
	B, \$+.32-EXPONENT OF OPERAND IN N RANGE	F210A3	16014.50	00			016014.00
	DL%U, FPK0		22005.44	60			016014.40
	SRD%U, ROS-ADDS 1 IN BIT POSITION 60 OF FRACTION		22355.42	E0			016015.00
	L%BU, FPK68		22110.00	80	000000.20	50	016015.40
	CT0110%BU, 60, ROS, 68 - TEST MEM WORD+0.... 020		22355.00	80	074042.15	70	016016.40
	SIC, SEN		1310.00	80			016017.40
	BRGZ, SERS		1304.35	42			016020.00
	BZB, ROS+.60, \$+2.0		22355.74	80	016022.74	00	016020.40
	SIC, SEN		1310.00	80			016021.40
	B, SERS		1304.10	00			016022.00
	B, \$+.32-EXPONENT OF OPERAND IN N RANGE	F210A4	16023.10	00			016022.40
	DL%U, FPK67		22107.44	60			016023.00
	C0011%BU, 48, FPK1+.12, 20		22006.14	80	060012.06	70	016023.40
	SRD%U, ROS-ADDS 1 IN BIT POSITION 60 OF FRACTION		22355.42	E0			016024.40
	L%BU, FPK34		22047.00	80	000000.20	50	016025.00
	CT0110%BU, 60, ROS, 4-TEST MEMORY WORD WITH EXP + +2		22355.00	80	074002.15	70	016026.00
	SIC, SEN		1310.00	80			016027.00
	BRGZ, SERS		1304.35	42			016027.40
	BZB, ROS+.60, \$+2.0		22355.74	80	016032.34	00	016030.00
	SIC, SEN		1310.00	80			016031.00
	B, SERS		1304.10	00			016031.40
	B, \$+.32-EXPONENT OF ACC. OPERAND IN N RANGE	F210A5	16032.50	00			016032.00
	DL%U, FPK32		22045.44	60			016032.40
	C0011%BU, 48, FPK32+.12, 20		22045.14	80	060012.06	70	016033.00
	SRD%U, ROS-ADDS 1 IN BIT POSITION 60 OF FRACTION		22355.42	E0			016034.00
	L%BU, FPK67		22107.00	80	000000.20	50	016034.40
	CT0110%BU, 60, ROS, 4-TEST RESULT EXP + +2, FRACT + 0 S		22355.00	80	074002.15	70	016035.40
	SIC, SEN		1310.00	80			016036.40
	BRGZ, SERS		1304.35	42			016037.00
	BZB, ROS+.60, \$+2.0		22355.74	80	016041.74	00	016037.40
	SIC, SEN		1310.00	80			016040.40
	B, SERS		1304.10	00			016041.00
	-TEST NORMALIZATION MODIFIER						
	B, \$+.32-ACCUMULATOR EXPONENT XFP RANGE,	F210A6	16042.10	00			016041.40

	DL%U,FK21-TEST NORMALIZATION MODIFIER IGNORED		22167.44	60			016042.00
	C0011%BU,48,FK22+,12,20		22170.14	80	060012.06	70	016042.40
	SRD%U,ROS		22355.02	E0			016043.40
	L%BU,FK109		22316.00	80	000000.20	50	016044.00
	CT0110%BU,60,ROS,4 - TEST NORM MOD IGNORED		22355.00	80	074002.15	70	016045.00
	SIC,SEN		1310.00	80			016046.00
	BRGZ,SERS		1304.35	42			016046.40
	B,s+.32-ACCUMULATOR EXPONENT XFN RANGE,	F210A7	16047.50	00			016047.00
	DL%U,FK30-TEST NORMALIZATION MODIFIER IGNORED		22200.44	60			016047.40
	C0011%BU,48,FK22+,12,20		22170.14	80	060012.06	70	016050.00
	SRD%U,ROS		22355.02	E0			016051.00
	L%BU,FK110		22317.00	80	000000.20	50	016051.40
	CT0110%BU,60,ROS,4 - TEST NORM MOD IGNORED		22355.00	80	074002.15	70	016052.40
	SIC,SEN		1310.00	80			016053.40
	BRGZ,SERS		1304.35	42			016054.00
	B,s+.32-TEST NORMALIZATION PROCESS	F210A8	16055.10	00			016054.40
	DL%U,FK47		22221.44	60			016055.00
	C0011%BU,48,FK22+,12,20		22170.14	80	060012.06	70	016055.40
	SRD%U,ROS		22355.02	E0			016056.40
	L%BU,FK52		22226.00	80	000000.20	50	016057.00
	CT0110%BU,60,ROS,4-TEST RESULT EXPONENT AND FRACTION		22355.00	80	074002.15	70	016060.00
	SIC,SEN		1310.00	80			016061.00
	BRGZ,SERS		1304.35	42			016061.40
	BD,\$+1.0		16063.04	00			016062.00
	B,FSR1		15772.10	00			016062.40
	SIC,SEN0+.32		1311.40	80			016063.00
	B,SSW -	SSW	1301.10	00			016063.40
	-TEST UNCHANGED REGISTERS	F210B					
	- 0 S REMAIN 0 S	F210B1					
FSR2	C0000%BU,64,FPK0,64		22005.00	80	000040.00	70	016064.00
	C0000%BU,64,FPK0		22005.00	80	000000.00	70	016065.00
	CM0000%BU,8,10.0		12.00	80	010000.00	F0	016066.00
	SRD%U,ROS		22355.42	E0			016067.00
	CT0101%BU,64,FPK0,64-DOES L0-63 REMAIN + 0	F210B1A	22005.00	80	000040.13	70	016067.40
	SIC,SEN		1310.00	80			016070.40
	BRGZ,SERS		1304.35	42			016071.00
	CT0101%BU,64,FPK0-DOES R0-63 REMAIN + 0	F210B1B	22005.00	80	000000.13	70	016071.40
	SIC,SEN		1310.00	80			016072.40
	BRGZ,SERS		1304.35	42			016073.00
	CT0011%BU,8,10.0-DOES SB0-7 REMAIN + 0	F210B1C	12.00	80	010000.07	70	016073.40
	SIC,SEN		1310.00	80			016074.40
	BRGZ,SERS		1304.35	42			016075.00
	B,s+.32-1 S REMAIN 1 S	F210B2	16076.10	00			016075.40
	C1111%BU,64,FPK1,64		22006.00	80	000040.36	70	016076.00
	C1111%BU,64,FPK1		22006.00	80	000000.36	70	016077.00
	CM1111%BU,8,10.0		12.00	80	010000.36	F0	016100.00
	SRD%U,ROS		22355.42	E0			016101.00
	CT1010%BU,64,FPK1,64-DOES L0-63 REMAIN + 1 S	F210B2A	22006.00	80	000040.25	70	016101.40
	SIC,SEN		1310.00	80			016102.40
	BRGZ,SERS		1304.35	42			016103.00
	CT1010%BU,64,FPK1-DOES R0-63 REMAIN + 1 S	F210B2B	22006.00	80	000000.25	70	016103.40
	SIC,SEN		1310.00	80			016104.40
	BRGZ,SERS		1304.35	42			016105.00
	CT1100%BU,8,10.0-DOES SB0-7 REMAIN + 1 S	F210B2C	12.00	80	010000.31	70	016105.40
	SIC,SEN		1310.00	80			016106.40
	BRGZ,SERS		1304.35	42			016107.00
	BD,\$+1.0		16110.44	00			016107.40
	B,FSR2		16064.10	00			016110.00
	SIC,SEN0+.32		1311.40	80			016110.40
	B,SSW -	SSW	1301.10	00			016111.00
	-ACCUMULATOR FLAGS TO MEMORY FLAGS	F210C					
	- ACCUMULATOR FLAGS+ 0	F210C1					
FSR3	CM1111%BU,ROS		22355.00	80	000000.36	F0	016111.40
	Z,\$L		10.22	00			016112.40
	Z,\$R		11.22	00			016113.00
	Z,\$SB		12.22	00			016113.40

SRD%UH,ROS		22355.42	E0		016114.00
CT0011%BU,3H,ROS+.61-CHECK MEMORY FLAGS + 0		22355.75	80	003000.07 70	016114.40
SIC,SEN		1310.00	80		016115.40
BRGZ,SERS		1304.35	42		016116.00
CT0011%BU,3H,10.5-DO ACC. FLAGS REMAIN + 0		12.05	80	003000.07 70	016116.40
SIC,SEN		1310.00	80		016117.40
BRGZ,SERS		1304.35	42		016120.00
B,s+.32-ACCUMULATOR FLAGS + 7	F210C2	16121.10	00		016120.40
C1111%BU,64H,FPK1,64		22006.00	80	000040.36 70	016121.00
C1111%BU,64H,FPK1		22006.00	80	000000.36 70	016122.00
CM1111%BU,8H,10.0		12.00	80	010000.36 F0	016123.00
SRD%UH,ROS		22355.42	E0		016124.00
CT1100%BU,3H,ROS+.61-CHECK MEMORY FLAGS + 7		22355.75	80	003000.31 70	016124.40
SIC,SEN		1310.00	80		016125.40
BRGZ,SERS		1304.35	42		016126.00
CT1100%BU,3H,10.5-DO ACC. FLAGS REMAIN + 7		12.05	80	003000.31 70	016126.40
SIC,SEN		1310.00	80		016127.40
BRGZ,SERS		1304.35	42		016130.00
-TESTS OF INDICATORS	F210D				
B,s+.32-TEST MOP INDICATOR ON CONDITION	F210D1	16131.10	00		016130.40
BMOPZ,s+.32		16131.73	C6		016131.00
DL%UH,FPK0		22005.44	60		016131.40
SPD%UH,ROS		22355.42	E0		016132.00
SIC,SEN		1310.00	80		016132.40
BZMOP,SERS -ERROR IF MOP INDICATOR OFF		1304.33	C0		016133.00
B,s+.32-TEST LC INDICATOR, ON CONDITION	F210D2	16134.10	00		016133.40
BLCZ,s+.32		16134.53	46		016134.00
DL%UH,FPK32		22045.44	60		016134.40
C0011%BU,48H,FPK32+.12,20		22045.14	80	060012.06 70	016135.00
SRD%UH,ROS		22355.42	E0		016136.00
SIC,SEN		1310.00	80		016136.40
BZLC,SERS -ERROR IF LC INDICATOR OFF		1304.13	40		016137.00
BD,s+1.0		16140.44	00		016137.40
B,FSR3		16111.50	00		016140.00
SIC,SEN0+.32		1311.40	80		016140.40
B,SSW -	SSW	1301.10	00		016141.00

-STORE LOW ORDER TEST ROUTINE
 -ARITHMETIC CHECKS F211A

FSL01	L%BU, F211			21762.00	80	000000.20	50	016141.40
	ST%BU, DPET13			1437.00	80	000000.20	D0	016142.40
	SIC, RET1			1306.40	80			016143.40
		B, IDF1		1443.10	00			016144.00
SAP12	DL%U, FK40	- ACC EXP IN XFP RNG	F211A1	22212.44	60			016144.40
	Z, \$IND			13.22	00			016145.00
	C0011%BU, 48, FK23+, 12, 20			22171.14	80	060012.06	70	016145.40
	SLO%U, ROS			22355.44	E0			016146.40
	L%BU, FK23			22171.00	80	000000.20	50	016147.00
	CT0110%BU, 60, ROS, 4-WAS FRACT STORED WITH MEM, EXP+ACC, EXP			22355.00	80	074002.15	70	016150.00
	SIC, SEN			1310.00	80			016151.00
		BRGZ, SERS		1304.35	42			016151.40
	BB, ROS+, 60, \$+2.0			22355.74	80	016154.34	02	016152.00
	SIC, SEN			1310.00	80			016153.00
		B, SERS		1304.10	00			016153.40
	DL%U, FK25	- ACC EXP IN XFP RNG	F211A2	22173.44	60			016154.00
	C0011%BU, 48, FK30+, 12, 20			22200.14	80	060012.06	70	016154.40
	SLO%U, ROS			22355.44	E0			016155.40
	L%BU, FK30			22200.00	80	000000.20	50	016156.00
	CT0110%BU, 60, ROS, 4-WAS FRACT STORED WITH MEM, EXP+ACC, EXP			22355.00	80	074002.15	70	016157.00
	SIC, SEN			1310.00	80			016160.00
		BRGZ, SERS		1304.35	42			016160.40
	BZB, ROS+, 60, \$+2.0			22355.74	80	016163.34	00	016161.00
	SIC, SEN			1310.00	80			016162.00
		B, SERS		1304.10	00			016162.40
	DL%U, FPK28	- ACC EXP++256	F211A3	22041.44	60			016163.00
	C0011%BU, 48, FPK28+, 12, 20			22041.14	80	060012.06	70	016163.40
	SLO%U, ROS			22355.44	E0			016164.40
	L%BU, FPK44			22061.00	80	000000.20	50	016165.00
	CT0110%BU, 60, ROS, 4-TEST RESULT EXP+208, FRACT+1 S			22355.00	80	074002.15	70	016166.00
	SIC, SEN			1310.00	80			016167.00
		BRGZ, SERS		1304.35	42			016167.40
	BZB, ROS+, 60, \$+2.0			22355.74	80	016172.34	00	016170.00
	SIC, SEN			1310.00	80			016171.00
		B, SERS		1304.10	00			016171.40
	DL%U, FPK38	-ACC EXP++50	F211A4	22053.44	60			016172.00
	C0011%BU, 48, FPK38+, 12, 20			22053.14	80	060012.06	70	016172.40
	SLO%U, ROS			22355.44	E0			016173.40
	L%BU, FPK39			22054.00	80	000000.20	50	016174.00
	CT0110%BU, 60, ROS, 4-CHECK OPND WITH EXPONENT++2			22355.00	80	074002.15	70	016175.00
	SIC, SEN			1310.00	80			016176.00
		BRGZ, SERS		1304.35	42			016176.40
	BZB, ROS+, 60, \$+2.0			22355.74	80	016201.34	00	016177.00
	SIC, SEN			1310.00	80			016200.00
		B, SERS		1304.10	00			016200.40
	DL%U, FPK32	- ACC EXP++2	F211A5	22045.44	60			016201.00
	C0011%BU, 48, FPK32+, 12, 20			22045.14	80	060012.06	70	016201.40
	SLO%U, ROS			22355.44	E0			016202.40
	L%BU, FPK45			22062.00	80	000000.20	50	016203.00
	CT0110%BU, 60, ROS, 4-CHECK RESULT EXP+-46, FRACT+1 S			22355.00	80	074002.15	70	016204.00
	SIC, SEN			1310.00	80			016205.00
		BRGZ, SERS		1304.35	42			016205.40
	BZB, ROS+, 60, \$+2.0			22355.74	80	016210.34	00	016206.00
	SIC, SEN			1310.00	80			016207.00
		B, SERS		1304.10	00			016207.40
	DL%U, FPK45	- ACC EXP+-46	F211A6	22062.44	60			016210.00
	C0011%BU, 48, FPK45+, 12, 20			22062.14	80	060012.06	70	016210.40
	SLO%U, ROS			22355.44	E0			016211.40
	L%BU, FPK46			22063.00	80	000000.20	50	016212.00

CT0110%BU,60,ROS,4-CHECK RESULT EXP+-94,FRACT+1 S		22355.00	80	074002.15	70	016213.00
SIC,SEN		1310.00	80			016214.00
BRGZ,SERS		1304.35	42			016214.40
BZB,11.33,S+2.0 - TEST ZM IND OFF		13.41	80	016217.34	00	016215.00
SIC,SEN		1310.00	80			016216.00
B,SERS		1304.10	00			016216.40
-TEST NORMALIZATION MODIFIER						
DL%U,FK23 - EXP IN XFP RNG	F211A7	22171.44	60			016217.00
C0011%BU,48,FK26+.12,20		22174.14	80	060012.06	70	016217.40
SLO%N,ROS		22355.04	E0			016220.40
L%BU,FK26		22174.00	80	000000.20	50	016221.00
CT0110%BU,60,ROS,4		22355.00	80	074002.15	70	016222.00
SIC,SEN		1310.00	80			016223.00
BRGZ,SERS		1304.35	42			016223.40
DL%U,FK25 - EXP IN XFN RNG	F211A8	22173.44	60			016224.00
C0011%BU,48,FK30+.12,20		22200.14	80	060012.06	70	016224.40
SLO%N,ROS		22355.04	E0			016225.40
L%BU,FK30		22200.00	80	000000.20	50	016226.00
CT0110%BU,60,ROS,4		22355.00	80	074002.15	70	016227.00
SIC,SEN		1310.00	80			016230.00
BRGZ,SERS		1304.35	42			016230.40
DL%U,FK37 - EXP++50 N RNG	F211A9	22052.44	60			016231.00
C0011%BU,48,FK53+.12,20		22072.14	80	060012.06	70	016231.40
SLO%N,ROS		22355.04	E0			016232.40
L%BU,FK51		22225.00	80	000000.20	50	016233.00
CT0110%BU,60,ROS,4-CHECK RESULT WITH EXP+-44		22355.00	80	074002.15	70	016234.00
SIC,SEN		1310.00	80			016235.00
BRGZ,SERS		1304.35	42			016235.40
DL%U,FK111 - EXP+-1023 N RNG	F211A10	22320.44	60			016236.00
C0011%BU,48,FK88+.12,20		22271.14	80	060012.06	70	016236.40
SLO%N,ROS		22355.04	E0			016237.40
L%BU,FK112		22321.00	80	000000.20	50	016240.00
CT0110%BU,60,ROS,4 - GENERATED EXP FLAG		22355.00	80	074002.15	70	016241.00
SIC,SEN		1310.00	80			016242.00
BRGZ,SERS		1304.35	42			016242.40
BD,S+1.0		16244.04	00			016243.00
B,FSLO1		16141.50	00			016243.40
SIC,SEN0+.32		1311.40	80			016244.00
B,SSW -	SSW	1301.10	00			016244.40
-TEST UNCHANGED REGISTERS F211B						
FSLO2 C1111%BU,64,FK1,64 -	F211B1	22006.00	80	000040.36	70	016245.00
C1111%BU,64,FK1		22006.00	80	000000.36	70	016246.00
CM1111%BU,8,10.0		12.00	80	010000.36	F0	016247.00
SLO%U,ROS		22355.44	E0			016250.00
CT1010%BU,64,FK1,64-DOES L0-63 REMAIN+1 S		22006.00	80	000040.25	70	016250.40
SIC,SEN		1310.00	80			016251.40
BRGZ,SERS		1304.35	42			016252.00
CT1010%BU,64,FK1-DOES R0-63 REMAIN+1 S		22006.00	80	000000.25	70	016252.40
SIC,SEN		1310.00	80			016253.40
BRGZ,SERS		1304.35	42			016254.00
CT1100%BU,8,10.0-DOES THE SB REMAIN+1 S		12.00	80	010000.31	70	016254.40
SIC,SEN		1310.00	80			016255.40
BRGZ,SERS		1304.35	42			016256.00
-INDICATOR TEST						
B,S+.32-MOP INDICATOR, OFF TO ON CONDITION	F211C	16257.10	00			016256.40
BMOPZ,S+.32		16257.73	C6			016257.00
DL%U,FK37		22052.44	60			016257.40
C0011%BU,48,FK37+.12,20		22052.14	80	060012.06	70	016260.00
SLO%U,ROS		22355.44	E0			016261.00
SIC,SEN		1310.00	80			016261.40
BZMOP,SERS -ERROR IF MOP INDICATOR OFF		1304.33	C0			016262.00
BD,S+1.0		16263.44	00			016262.40
B,FSLO2		16245.10	00			016263.00
SIC,SEN0+.32		1311.40	80			016263.40
B,SSW -	SSW	1301.10	00			016264.00

FSF1	L%BU, F212	21763.00	80	000000.20	50	016264.40
	ST%BU, DPET13	1437.00	80	000000.20	D0	016265.40
	SIC, RET1	1306.40	80			016266.40
	B, IDF1	1443.10	00			016267.00

-----F212---SHIFT FRACTION TEST ROUTINE
-ARITHMETIC CHECKS F212A

SAP13	DL%U, FPK87	-	F212A1	22125.44	60	016267.40
	SHFL%U, 0			0.67	20	016270.00
	CT0110%BU, 48, FPK87+.12, 68-DOES HIGH ORDER FRACT. REMAIN SAME			22125.14	80 060042.15 70	016270.40
	SIC, SEN			1310.00	80	016271.40
	BRGZ, SERS			1304.35	42	016272.00
	CT0110%BU, 48, FPK0+.12, 20-DOES LOW ORDER FRACT. REMAIN+0			22005.14	80 060012.15 70	016272.40
	SIC, SEN			1310.00	80	016273.40
	BRGZ, SERS			1304.35	42	016274.00
	DL%U, FPK87	-	F212A2	22125.44	60	016274.40
	SHFL%U, 1			200.67	20	016275.00
	CT0110%BU, 48, FPK88+.12, 68-TEST 96 BIT FRACT. SHIFTED LEFT 1			22126.14	80 060042.15 70	016275.40
	SIC, SEN			1310.00	80	016276.40
	BRGZ, SERS			1304.35	42	016277.00
	CT0110%BU, 48, FPK0+.12, 20			22005.14	80 060012.15 70	016277.40
	SIC, SEN			1310.00	80	016300.40
	BRGZ, SERS			1304.35	42	016301.00
	DL%U, FPK87	-	F212A3	22125.44	60	016301.40
	SHFL%U, 2			400.67	20	016302.00
	CT0110%BU, 48, FPK89+.12, 68-TEST 96 BIT FRACT. SHIFTED LEFT 2			22127.14	80 060042.15 70	016302.40
	SIC, SEN			1310.00	80	016303.40
	BRGZ, SERS			1304.35	42	016304.00
	CT0110%BU, 48, FPK0+.12, 20			22005.14	80 060012.15 70	016304.40
	SIC, SEN			1310.00	80	016305.40
	BRGZ, SERS			1304.35	42	016306.00
	DL%U, FPK87	-	F212A4	22125.44	60	016306.40
	SHFL%U, 3			600.67	20	016307.00
	CT0110%BU, 48, FPK90+.12, 68-TEST 96 BIT FRACT. SHIFTED LEFT 3			22130.14	80 060042.15 70	016307.40
	SIC, SEN			1310.00	80	016310.40
	BRGZ, SERS			1304.35	42	016311.00
	CT0110%BU, 48, FPK0+.12, 20			22005.14	80 060012.15 70	016311.40
	SIC, SEN			1310.00	80	016312.40
	BRGZ, SERS			1304.35	42	016313.00
	DL%U, FPK87	-	F212A5	22125.44	60	016313.40
	SHFL%U, 4			1000.67	20	016314.00
	CT0110%BU, 48, FPK91+.12, 68-TEST 96 BIT FRACT. SHIFTED LEFT 4			22131.14	80 060042.15 70	016314.40
	SIC, SEN			1310.00	80	016315.40
	BRGZ, SERS			1304.35	42	016316.00
	CT0110%BU, 48, FPK0+.12, 20			22005.14	80 060012.15 70	016316.40
	SIC, SEN			1310.00	80	016317.40
	BRGZ, SERS			1304.35	42	016320.00
	DL%U, FPK87	-	F212A6	22125.44	60	016320.40
	SHFL%U, 5			1200.67	20	016321.00
	CT0110%BU, 48, FPK92+.12, 68-TEST 96 BIT FRACT. SHIFTED LEFT 5			22132.14	80 060042.15 70	016321.40
	SIC, SEN			1310.00	80	016322.40
	BRGZ, SERS			1304.35	42	016323.00
	CT0110%BU, 48, FPK0+.12, 20			22005.14	80 060012.15 70	016323.40
	SIC, SEN			1310.00	80	016324.40
	BRGZ, SERS			1304.35	42	016325.00
	DL%U, FPK87	-	F212A7	22125.44	60	016325.40
	SHFL%U, 6			1400.67	20	016326.00
	CT0110%BU, 48, FPK93+.12, 68-TEST 96 BIT FRACT. SHIFTED LEFT 6			22133.14	80 060042.15 70	016326.40
	SIC, SEN			1310.00	80	016327.40
	BRGZ, SERS			1304.35	42	016330.00

CT0110%BU,48#,FPK0+.12,20		22005.14	80	060012.15	70	016330.40
SIC,SEN		1310.00	80			016331.40
BRGZ,SERS		1304.35	42			016332.00
DL%U#,FPK87	-	F212A8	22125.44	60		016332.40
SHFL%U#,7		1600.67	20			016333.00
CT0110%BU,48#,FPK94+.12,68-TEST 96 BIT FRACT. SHIFTED LEFT 7		22134.14	80	060042.15	70	016333.40
SIC,SEN		1310.00	80			016334.40
BRGZ,SERS		1304.35	42			016335.00
CT0110%BU,48#,FPK0+.12,20		22005.14	80	060012.15	70	016335.40
SIC,SEN		1310.00	80			016336.40
BRGZ,SERS		1304.35	42			016337.00
DL%U#,FPK87	-	F212A9	22125.44	60		016337.40
SHFL%U#,8		2000.67	20			016340.00
CT0110%BU,48#,FPK95+.12,68-TEST 96 BIT FRACT. SHIFTED LEFT 8		22135.14	80	060042.15	70	016340.40
SIC,SEN		1310.00	80			016341.40
BRGZ,SERS		1304.35	42			016342.00
CT0110%BU,48#,FPK0+.12,20		22005.14	80	060012.15	70	016342.40
SIC,SEN		1310.00	80			016343.40
BRGZ,SERS		1304.35	42			016344.00
DL%U#,FPK87	-	F212A10	22125.44	60		016344.40
SHFL%U#,9		2200.67	20			016345.00
CT0110%BU,48#,FPK96+.12,68-TEST 96 BIT FRACT. SHIFTED LEFT 9		22136.14	80	060042.15	70	016345.40
SIC,SEN		1310.00	80			016346.40
BRGZ,SERS		1304.35	42			016347.00
CT0110%BU,48#,FPK0+.12,20		22005.14	80	060012.15	70	016347.40
SIC,SEN		1310.00	80			016350.40
BRGZ,SERS		1304.35	42			016351.00
DL%U#,FPK87	-	F212A11	22125.44	60		016351.40
SHFL%U#,10		2400.67	20			016352.00
CT0110%BU,48#,FPK97+.12,68		22137.14	80	060042.15	70	016352.40
SIC,SEN		1310.00	80			016353.40
BRGZ,SERS		1304.35	42			016354.00
CT0110%BU,48#,FPK0+.12,20		22005.14	80	060012.15	70	016354.40
SIC,SEN		1310.00	80			016355.40
BRGZ,SERS		1304.35	42			016356.00
Z,SIND	-	F212A12	13.22	00		016356.40
DL%U#,FPK0		22005.44	60			016357.00
C0011%BU,48#,FPK34+.12,20		22047.14	80	060012.06	70	016357.40
SHFL%U#,107		32600.67	20			016360.40
CT0110%BU,48#,FPK0+.12,68-TEST HIGH ORDER FRACT.+0		22005.14	80	060042.15	70	016361.00
SIC,SEN		1310.00	80			016362.00
BRGZ,SERS		1304.35	42			016362.40
CT0110%BU,48#,FPK0+.12,20-TEST LOW ORDER FRACT.+0		22005.14	80	060012.15	70	016363.00
SIC,SEN		1310.00	80			016364.00
BRGZ,SERS		1304.35	42			016364.40
SIC,SEN		1310.00	80			016365.00
BZLC,SERS -ERROR IF LC INDICATOR OFF		1304.13	40			016365.40
DL%U#,FPK0	-	F212A13	22005.44	60		016366.00
C0011%BU,48#,FPK97+.12,20		22137.14	80	060012.06	70	016366.40
SHFL%U#,0		0.77	20			016367.40
CT0110%BU,48#,FPK0+.12,68-DOES HIGH ORDER FRACT. REMAIN SAME		22005.14	80	060042.15	70	016370.00
SIC,SEN		1310.00	80			016371.00
BRGZ,SERS		1304.35	42			016371.40
CT0110%BU,48#,FPK97+.12,20-DOES LOW ORDER FRACT. REMAIN SAME		22137.14	80	060012.15	70	016372.00
SIC,SEN		1310.00	80			016373.00
BRGZ,SERS		1304.35	42			016373.40
DL%U#,FPK0	-	F212A14	22005.44	60		016374.00
C0011%BU,48#,FPK97+.12,20		22137.14	80	060012.06	70	016374.40
SHFL%U#,1		200.77	20			016375.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 1		22005.14	80	060042.15	70	016376.00
SIC,SEN		1310.00	80			016377.00
BRGZ,SERS		1304.35	42			016377.40
CT0110%BU,48#,FPK96+.12,20		22136.14	80	060012.15	70	016400.00
SIC,SEN		1310.00	80			016401.00
BRGZ,SERS		1304.35	42			016401.40
DL%U#,FPK0	-	F212A15	22005.44	60		016402.00

60-97

C0011%BU,48#,FPK97+.12,20		22137.14	80	060012.06	70	016402.40
SHFR%U#,2		400.77	20			016403.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 2		22005.14	80	060042.15	70	016404.00
SIC,SEN		1310.00	80			016405.00
BRGZ,SERS		1304.35	42			016405.40
CT0110%BU,48#,FPK95+.12,20		22135.14	80	060012.15	70	016406.00
SIC,SEN		1310.00	80			016407.00
BRGZ,SERS		1304.35	42			016407.40
DL%U#,FPK0						016410.00
C0011%BU,48#,FPK97+.12,20	F212A16	22005.44	60			016410.00
SHFR%U#,3		22137.14	80	060012.06	70	016410.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 3		600.77	20			016411.40
SIC,SEN		22005.14	80	060042.15	70	016412.00
BRGZ,SERS		1310.00	80			016413.00
CT0110%BU,48#,FPK94+.12,20		1304.35	42			016413.40
SIC,SEN		22134.14	80	060012.15	70	016414.00
BRGZ,SERS		1310.00	80			016415.00
DL%U#,FPK0		1304.35	42			016415.40
C0011%BU,48#,FPK97+.12,20	F212A17	22005.44	60			016416.00
SHFR%U#,4		22137.14	80	060012.06	70	016416.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 4		1000.77	20			016417.40
SIC,SEN		22005.14	80	060042.15	70	016420.00
BRGZ,SERS		1310.00	80			016421.00
CT0110%BU,48#,FPK93+.12,20		1304.35	42			016421.40
SIC,SEN		22133.14	80	060012.15	70	016422.00
BRGZ,SERS		1310.00	80			016423.00
DL%U#,FPK0		1304.35	42			016423.40
C0011%BU,48#,FPK97+.12,20	F212A18	22005.44	60			016424.00
SHFR%U#,5		22137.14	80	060012.06	70	016424.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 5		1200.77	20			016425.40
SIC,SEN		22005.14	80	060042.15	70	016426.00
BRGZ,SERS		1310.00	80			016427.00
CT0110%BU,48#,FPK92+.12,20		1304.35	42			016427.40
SIC,SEN		22132.14	80	060012.15	70	016430.00
BRGZ,SERS		1310.00	80			016431.00
DL%U#,FPK0		1304.35	42			016431.40
C0011%BU,48#,FPK97+.12,20	F212A19	22005.44	60			016432.00
SHFR%U#,6		22137.14	80	060012.06	70	016432.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 6		1400.77	20			016433.40
SIC,SEN		22005.14	80	060042.15	70	016434.00
BRGZ,SERS		1310.00	80			016435.00
CT0110%BU,48#,FPK91+.12,20		1304.35	42			016435.40
SIC,SEN		22131.14	80	060012.15	70	016436.00
BRGZ,SERS		1310.00	80			016437.00
DL%U#,FPK0		1304.35	42			016437.40
C0011%BU,48#,FPK97+.12,20	F212A20	22005.44	60			016440.00
SHFR%U#,7		22137.14	80	060012.06	70	016440.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 7		1600.77	20			016441.40
SIC,SEN		22005.14	80	060042.15	70	016442.00
BRGZ,SERS		1310.00	80			016443.00
CT0110%BU,48#,FPK90+.12,20		1304.35	42			016443.40
SIC,SEN		22130.14	80	060012.15	70	016444.00
BRGZ,SERS		1310.00	80			016445.00
DL%U#,FPK0		1304.35	42			016445.40
C0011%BU,48#,FPK97+.12,20	F212A21	22005.44	60			016446.00
SHFR%U#,8		22137.14	80	060012.06	70	016446.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 8		2000.77	20			016447.40
SIC,SEN		22005.14	80	060042.15	70	016450.00
BRGZ,SERS		1310.00	80			016451.00
CT0110%BU,48#,FPK89+.12,20		1304.35	42			016451.40
SIC,SEN		22127.14	80	060012.15	70	016452.00
BRGZ,SERS		1310.00	80			016453.00
DL%U#,FPK0		1304.35	42			016453.40
C0011%BU,48#,FPK97+.12,20	F212A22	22005.44	60			016454.00
SHFR%U#,9		22137.14	80	060012.06	70	016454.40
CT0110%BU,48#,FPK0+.12,68-WAS 96 BIT FRACT. SHIFTED RIGHT 9		2200.77	20			016455.40
SIC,SEN		22005.14	80	060042.15	70	016456.00

SIC,SEN			1310.00	80			016457.00
	BRGZ,SERS		1304.35	42			016457.40
CT0110%BU,48□,FPK88+.12,20			22126.14	80	060012.15	70	016460.00
SIC,SEN			1310.00	80			016461.00
	BRGZ,SERS		1304.35	42			016461.40
DL%U□,FPK0		F212A23	22005.44	60			016462.00
C0011%BU,48□,FPK97+.12,20			22137.14	80	060012.06	70	016462.40
SHFR%U□,10			2400.77	20			016463.40
CT0110%BU,48□,FPK0+.12,68-WAS 96 BIT FRACTION SHIFTED RIGHT 10			22005.14	80	060042.15	70	016464.00
SIC,SEN			1310.00	80			016465.00
	BRGZ,SERS		1304.35	42			016465.40
CT0110%BU,48□,FPK87+.12,20			22125.14	80	060012.15	70	016466.00
SIC,SEN			1310.00	80			016467.00
	BRGZ,SERS		1304.35	42			016467.40
BLCZ,S+.32		F212A24	16470.53	46			016470.00
DL%U□,FPK84			22123.44	60			016470.40
SHFR%U□,107			32600.77	20			016471.00
CT0110%BU,48□,FPK0+.12,68-TEST HIGH ORDER FRACT,+0			22005.14	80	060042.15	70	016471.40
SIC,SEN			1310.00	80			016472.40
	BRGZ,SERS		1304.35	42			016473.00
CT0110%BU,48□,FPK0+.12,20-TEST LOW ORDER FRACT,+0			22005.14	80	060012.15	70	016473.40
SIC,SEN			1310.00	80			016474.40
	BRGZ,SERS		1304.35	42			016475.00
SIC,SEN			1310.00	80			016475.40
	BLC,SERS -ERROR IF LC INDICATOR ON		1304.13	42			016476.00
DL%U□,FPK87		F212A25	22125.44	60			016476.40
CM1111%BU,6,8□,DAM+.12-BITS TO RIGHT OF EFF. ADDRESS IGNORED			16500.14	80	006000.36	F0	016477.00
SHFL%U□,0			0.67	20			016500.00
CT0110%BU,48□,FPK87+.12,68-DOES HIGH ORDER FRACT. REMAIN SAME			22125.14	80	060042.15	70	016500.40
SIC,SEN			1310.00	80			016501.40
	BRGZ,SERS		1304.35	42			016502.00
CT0110%BU,48□,FPK0+.12,20-DOES LOW ORDER FRACT. REMAIN SAME			22005.14	80	060012.15	70	016502.40
SIC,SEN			1310.00	80			016503.40
	BRGZ,SERS		1304.35	42			016504.00
DL%U□,FPK87		F212A26	22125.44	60			016504.40
SHFL%N□,1			200.27	20			016505.00
CT0110%BU,48□,FPK88+.12,68-WAS 96 BIT FRACT. SHIFTED LEFT,			22126.14	80	060042.15	70	016505.40
SIC,SEN			1310.00	80			016506.40
	BRGZ,SERS-ONE PLACE ONLY		1304.35	42			016507.00
CT0110%BU,48□,FPK0+.12,20			22005.14	80	060012.15	70	016507.40
SIC,SEN			1310.00	80			016510.40
	BRGZ,SERS		1304.35	42			016511.00
B,S+.32		F212A27	16512.10	00			016511.40
DL%U□,FK21			22167.44	60			016512.00
SHFL%U□,5			1200.67	20			016512.40
CT0110%BU,60□,FK53,68 -CHECK FRACT.SHIFTED LEFT 5 PLACES			22227.00	80	074042.15	70	016513.00
SIC,SEN			1310.00	80			016514.00
	BRGZ,SERS		1304.35	42			016514.40
CT0110%BU,48□,FPK0+.12,20			22005.14	80	060012.15	70	016515.00
SIC,SEN			1310.00	80			016516.00
	BRGZ,SERS		1304.35	42			016516.40
DL%U□,FK53		F212A28	22227.44	60			016517.00
SHFR%U□,5			1200.77	20			016517.40
CT0110%BU,60□,FK21,68 -CHECK FRACT. SHIFTED RIGHT 5 PLACES			22167.00	80	074042.15	70	016520.00
SIC,SEN			1310.00	80			016521.00
	BRGZ,SERS		1304.35	42			016521.40
CT0110%BU,48□,FPK0+.12,20			22005.14	80	060012.15	70	016522.00
SIC,SEN			1310.00	80			016523.00
	BRGZ,SERS		1304.35	42			016523.40
B,S+.32		F212A29	16524.50	00			016524.00
DL%U□,FK30			22200.44	60			016524.40
SHFL%U□,3			600.67	20			016525.00
CT0110%BU,60□,FK54,68 -CHECK FRACT. SHIFTED LEFT 3 PLACES			22230.00	80	074042.15	70	016525.40
SIC,SEN			1310.00	80			016526.40
	BRGZ,SERS		1304.35	42			016527.00
CT0110%BU,48□,FPK0+.12,20			22005.14	80	060012.15	70	016527.40

	SIC,SEN			1310.00	80		016530.40
	BRGZ,SERS			1304.35	42		016531.00
	DL%U□,FK54	-	F212A30	22230.44	60		016531.40
	SHFR%U□,3			600.77	20		016532.00
	CT0110%BU,60□,FK30,68	-CHECK FRACT. SHIFTED RIGHT 3 PLACES		22200.00	80	074042.15 70	016532.40
	SIC,SEN			1310.00	80		016533.40
	BRGZ,SERS			1304.35	42		016534.00
	CT0110%BU,48□,FPK0+.12,20			22005.14	80	060012.15 70	016534.40
	SIC,SEN			1310.00	80		016535.40
	BRGZ,SERS			1304.35	42		016536.00
	BD,\$+1.0			16537.44	00		016536.40
	B,FSF1			16264.50	00		016537.00
	SIC,SEN0+.32			1311.40	80		016537.40
	B,SSW	-	SSW	1301.10	00		016540.00
	-TESTS OF SIGN AND MODIFIER COMBINATIONS F212B						
	-N AND A ARE MODIFIERS						
FSF3	DL%U□,FPK0	- -N+A+0	F212B1	22005.44	60		016540.40
	C0011%BU,48□,FPK97+.12,20			22137.14	80	060012.06 70	016541.00
	SHFR%U□,1			200.77	20		016542.00
	CT0110%BU,48□,FPK0+.12,68	-FRACT. SHIFTED RIGHT 1		22005.14	80	060042.15 70	016542.40
	SIC,SEN			1310.00	80		016543.40
	BRGZ,SERS			1304.35	42		016544.00
	CT0110%BU,48□,FPK96+.12,20			22136.14	80	060012.15 70	016544.40
	SIC,SEN			1310.00	80		016545.40
	BRGZ,SERS			1304.35	42		016546.00
	DL%U□,FPK87	-N+0 A+1	F212B2	22125.44	60		016546.40
	SHFA%U□,1			200.67	20		016547.00
	CT0110%BU,48□,FPK88+.12,68	-FRACT. SHIFTED LEFT 1		22126.14	80	060042.15 70	016547.40
	SIC,SEN			1310.00	80		016550.40
	BRGZ,SERS			1304.35	42		016551.00
	CT0110%BU,48□,FPK0+.12,20			22005.14	80	060012.15 70	016551.40
	SIC,SEN			1310.00	80		016552.40
	BRGZ,SERS			1304.35	42		016553.00
	DL%U□,FPK0	- -N+1 A+0	F212B3	22005.44	60		016553.40
	C0011%BU,48□,FPK97+.12,20			22137.14	80	060012.06 70	016554.00
	SHFN%U□,1			200.57	20		016555.00
	CT0110%BU,48□,FPK0+.12,68	-FRACT. SHIFTED RIGHT 1		22005.14	80	060042.15 70	016555.40
	SIC,SEN			1310.00	80		016556.40
	BRGZ,SERS			1304.35	42		016557.00
	CT0110%BU,48□,FPK96+.12,20			22136.14	80	060012.15 70	016557.40
	SIC,SEN			1310.00	80		016560.40
	BRGZ,SERS			1304.35	42		016561.00
	DL%U□,FPK0	- -N+A+1	F212B4	22005.44	60		016561.40
	C0011%BU,48□,FPK97+.12,20			22137.14	80	060012.06 70	016562.00
	SHFNA%U□,1			200.77	20		016563.00
	CT0110%BU,48□,FPK0+.12,68	-FRACT. SHIFTED RIGHT 1		22005.14	80	060042.15 70	016563.40
	SIC,SEN			1310.00	80		016564.40
	BRGZ,SERS			1304.35	42		016565.00
	CT0110%BU,48□,FPK96+.12,20			22136.14	80	060012.15 70	016565.40
	SIC,SEN			1310.00	80		016566.40
	BRGZ,SERS			1304.35	42		016567.00
	BD,\$+1.0			16570.44	00		016567.40
	B,FSF3			16540.50	00		016570.00
	SIC,SEN0+.32			1311.40	80		016570.40
	B,SSW	-	SSW	1301.10	00		016571.00
	-TEST UNCHANGED REGISTERS						
FSF4	C1111%BU,64□,FPK1,64		F212C	22006.00	80	000040.36 70	016571.40
	BBZ,8.13,\$+1.			10.15	80	016573.74 06	016572.40
	C1111%BU,64□,FPK1			22006.00	80	000000.36 70	016573.40
	CM1111%BU,8□,10.0			12.00	80	010000.36 F0	016574.40
	SHFL%U□,1			200.67	20		016575.40
	CT1010%BU,12□,FPK1,116	-DOES L0-11 REMAIN+1-S	F212C1	22006.00	80	014072.25 70	016576.00
	SIC,SEN			1310.00	80		016577.00
	BRGZ,SERS			1304.35	42		016577.40
	CT1010%BU,20□,FPK1	-DOES R44-63 REMAIN+1-S	F212C2	22006.00	80	024000.25 70	016600.00
	SIC,SEN			1310.00	80		016601.00

	BRGZ,SERS				1304.35 42		016601.40
	CT1100%BU,8H,10.0	-DOES SBO-7 REMAIN+1-S		F212C3	12.00 80	010000.31 70	016602.00
	SIC,SEN				1310.00 80		016603.00
	BRGZ,SERS				1304.35 42		016603.40
	SIC,SEN				1310.00 80		016604.00
	BRGZ,SERS				1304.35 42		016604.40
	BD,S+1.0				16606.04 00		016605.00
	B,FSE4				16571.50 00		016605.40
	-INDICATOR TESTS			F212D			
FSE5	BLCZ,S+.32	-TEST LC IND OFF TO ON		F212D1	16606.53 46		016606.00
	C1111%BU,64H,FPK1,64				22006.00 80	000040.36 70	016606.40
	C1111%BU,64H,FPK1				22006.00 80	000000.36 70	016607.40
	SHFL%UH,1				200.67 20		016610.40
	SIC,SEN				1310.00 80		016611.00
	BZLC,SERS	-ERROR IF LC INDICATOR OFF			1304.13 40		016611.40
	BLCZ,S+.32				16612.53 46		016612.00
	L%UH,FK134				22347.40 60		016612.40
	SHFL%UH,1				200.67 20		016613.00
	SIC,SEN				1310.00 80		016613.40
	BZLC,SERS				1304.13 40		016614.00
	BLCZ,S+.32				16615.13 46		016614.40
	L%UH,FK134				22347.40 60		016615.00
	SHFL%UH,2				400.67 20		016615.40
	SIC,SEN				1310.00 80		016616.00
	BZLCZ,SERS				1304.13 44		016616.40
	-ARITHMETIC RESULT INDICTAORS			F212D2			
	DL%UH,FK55	-TEST RLZ AND RN OFF TO ON		F212D2	22231.44 60		016617.00
	Z,SIND				13.22 00		016617.40
	SHF%UH,3				600.47 20		016620.00
	SIC,SEN				1310.00 80		016620.40
	BZRLZ,SERS	-ERROR IF RLZ AND RN OFF AND,			1304.34 40		016621.00
	SIC,SEN				1310.00 80		016621.40
	BZRN,SERS	-RZ AND RGZ INDICATORS ON			1304.35 C0		016622.00
	SIC,SEN				1310.00 80		016622.40
	BRZ,SERS				1304.34 C2		016623.00
	SIC,SEN				1310.00 80		016623.40
	BRGZ,SERS				1304.35 42		016624.00
	DLN%UH,FPK0	-TEST RN AND RZ OFF TO ON		F212D3	22005.54 60		016624.40
	Z,SIND				13.22 00		016625.00
	SHFL%UH,0				0.67 20		016625.40
	SIC,SEN				1310.00 80		016626.00
	BZRN,SERS	-ERROR IF RN AND RZ OFF AND,			1304.35 C0		016626.40
	SIC,SEN				1310.00 80		016627.00
	BZRZ,SERS	-RLZ AND RGZ INDICATORS ON			1304.34 C0		016627.40
	SIC,SEN				1310.00 80		016630.00
	BRLZ,SERS				1304.34 42		016630.40
	SIC,SEN				1310.00 80		016631.00
	BRGZ,SERS				1304.35 42		016631.40
	DL%UH,FPK0	-TEST RZ OFF TO ON		F212D4	22005.44 60		016632.00
	Z,SIND				13.22 00		016632.40
	SHFL%UH,0				0.67 20		016633.00
	SIC,SEN				1310.00 80		016633.40
	BZRZ,SERS	-ERROR IF RZ OFF AND,			1304.34 C0		016634.00
	SIC,SEN				1310.00 80		016624.40
	BRLZ,SERS	-RLZ,RN AND RGZ INDS. ON			1304.34 42		016635.00
	SIC,SEN				1310.00 80		016635.40
	BRN,SERS				1304.35 C2		016636.00
	SIC,SEN				1310.00 80		016636.40
	BRGZ,SERS				1304.35 42		016637.00
	DL%UH,FK21	-TEST RGZ OFF TO ON		F212D5	22167.44 60		016637.40
	Z,SIND				13.22 00		016640.00
	SHFL%UH,5				1200.67 20		016640.40
	SIC,SEN				1310.00 80		016641.00
	BZRGZ,SERS	-ERROR IF RGZ OFF AND,			1304.35 40		016641.40
	SIC,SEN				1310.00 80		016642.00
	BRLZ,SERS	-RLZ,RN AND RZ INDS.ON			1304.34 42		016642.40

SIC,SEN			1310.00 80	016643.00
	BRN,SERS		1304.35 C2	016643.40
BD,S+1.0			16645.04 00	016644.00
	B,FSF5		16606.10 00	016644.40
SIC,SEN0+.32			1311.40 80	016645.00
	B,SSW	-	SSW 1301.10 00	016645.40

----F212-X---ADD TO FRACTION ROUTINE
 - ARITHMETIC CHECKS

F212XA

FAF1	L%BU,FAF				21764.00	80	000000.20	50	016646.00
	ST%BU,DPET13				1437.00	80	000000.20	D0	016647.00
	SIC,RET1				1306.40	80			016650.00
		R,IDE1			1443.10	00			016650.40
SAP14	DL%U,FK23	- EXP++2047	EXPS IN XFP RNG	F212XA1	22171.44	60			016651.00
	C0011%BU,48,FK22+.12,20				22170.14	80	060012.06	70	016651.40
	F+%U,FK24	-EXP++1791			22172.45	20			016652.40
	CT0110%BU,60,FK23,68	-RESULT +OPND	ORIGINALLY IN ACC.		22171.00	80	074042.15	70	016653.00
	SIC,SEN				1310.00	80			016654.00
		BRGZ,SERS			1304.35	42			016654.40
	CT0110%BU,48,FK22+.12,20				22170.14	80	060012.15	70	016655.00
	SIC,SEN				1310.00	80			016656.00
		BRGZ,SERS			1304.35	42			016656.40
	DL%U,FK23	- EXP++2047	EXPS IN XFP + N RNGS	F212XA2	22171.44	60			016657.00
	C0011%BU,48,FK22+.12,20				22170.14	80	060012.06	70	016657.40
	F+%U,FK38	-EXP++50			22210.45	20			016660.40
	CT0110%BU,60,FK23,68	-RESULT+OPND	ORIGINALLY IN ACC.		22171.00	80	074042.15	70	016661.00
	SIC,SEN				1310.00	80			016662.00
		BRGZ,SERS			1304.35	42			016662.40
	CT0110%BU,48,FK22+.12,20				22170.14	80	060012.15	70	016663.00
	SIC,SEN				1310.00	80			016664.00
		BRGZ,SERS			1304.35	42			016664.40
	DL%U,FK23	- EXP++2047	EXPS IN XFP + XFN RNGS	F212XA3	22171.44	60			016665.00
	C0011%BU,48,FK22+.12,20				22170.14	80	060012.06	70	016665.40
	F+%U,FK2	-EXP+-2047			22007.45	20			016666.40
	CT0110%BU,60,FK23,68	-RESULT+OPND	ORIGINALLY IN ACC.		22171.00	80	074042.15	70	016667.00
	SIC,SEN				1310.00	80			016670.00
		BRGZ,SERS			1304.35	42			016670.40
	CT0110%BU,48,FK22+.12,20				22170.14	80	060012.15	70	016671.00
	SIC,SEN				1310.00	80			016672.00
		BRGZ,SERS			1304.35	42			016672.40
	DL%U,FK35	- EXP++2	EXPS IN N + XFP RNGS	F212XA4	22050.44	60			016673.00
	C0011%BU,48,FK32+.12,20				22045.14	80	060012.06	70	016673.40
	F+%U,FK24	-EXP++1791			22172.45	20			016674.40
	CT0110%BU,60,FK32,68	-TEST RESULT EXP + +2,	FRACT + 1-S		22045.00	80	074042.15	70	016675.00
	SIC,SEN				1310.00	80			016676.00
		BRGZ,SERS			1304.35	42			016676.40
	CT0110%BU,48,FK32+.12,20				22045.14	80	060012.15	70	016677.00
	SIC,SEN				1310.00	80			016700.00
		BRGZ,SERS			1304.35	42			016700.40
	DL%U,FK35	- EXP++2	EXPS IN N RNG	F212XA5	22050.44	60			016701.00
	C0011%BU,48,FK32+.12,20				22045.14	80	060012.06	70	016701.40
	F+%U,FK38	-EXP++50			22053.45	20			016702.40
	CT0110%BU,60,FK32,68	-TEST RESULT EXP.++2,	FRACT+1-S		22045.00	80	074042.15	70	016703.00
	SIC,SEN				1310.00	80			016704.00
		BRGZ,SERS			1304.35	42			016704.40
	CT0110%BU,48,FK32+.12,20				22045.14	80	060012.15	70	016705.00
	SIC,SEN				1310.00	80			016706.00
		BRGZ,SERS			1304.35	42			016706.40
	DL%U,FK34	- EXP++2	EXPS IN N + XFN RNGS	F212XA6	22047.44	60			016707.00
	C0011%BU,48,FK32+.12,20				22045.14	80	060012.06	70	016707.40
	F+%U,FK2	-EXP+-2047			22007.45	20			016710.40
	CT0110%BU,60,FK67,68	-TEST HIGH ORDER RESULT	FRACT+0-S,		22107.00	80	074042.15	70	016711.00
	SIC,SEN				1310.00	80			016712.00
		BRGZ,SERS	-EXP++2		1304.35	42			016712.40
	CT0110%BU,48,FK32+.12,20	-TEST LOW ORDER	FRACT+1-S		22045.14	80	060012.15	70	016713.00
	SIC,SEN				1310.00	80			016714.00
		BRGZ,SERS			1304.35	42			016714.40
	SIC,SEN				1310.00	80			016715.00
		BZLC,SERS	-ERROR IF LC INDICATOR OFF		1304.13	40			016715.40

	DL%U□,FK25	- EXP+-1791	EXPS IN XFN + XFP RNGS	F212XA7	22173.44	60		016716.00
	C0011%BU,48□,FK25+.12,20				22173.14	80	060012.06 70	016716.40
	F+%U□,FK21	-EXP++2047			22167.45	20		016717.40
	CT0110%BU,60□,FK25,68	-RESULT + OPND	ORIGINALLY IN ACC.		22173.00	80	074042.15 70	016720.00
	SIC,SEN				1310.00	80		016721.00
		BRGZ,SERS			1304.35	42		016721.40
	CT0110%BU,48□,FK25+.12,20				22173.14	80	060012.15 70	016722.00
	SIC,SEN				1310.00	80		016723.00
		BRGZ,SERS			1304.35	42		016723.40
	DL%U□,FK25	- EXP -1791			22173.44	60		016724.00
		- EXPS IN XFN + N RNGS		F212XA8				
	C0011%BU,48□,FK25+.12,20				22173.14	80	060012.06 70	016724.40
	F+%U□,FK37	-EXP+959			22207.45	20		016725.40
	CT0110%BU,60□,FK25,68	-RESULT+OPND	ORIGINALLY IN ACC.		22173.00	80	074042.15 70	016726.00
	SIC,SEN				1310.00	80		016727.00
		BRGZ,SERS			1304.35	42		016727.40
	CT0110%BU,48□,FK25+.12,20				22173.14	80	060012.15 70	016730.00
	SIC,SEN				1310.00	80		016731.00
		BRGZ,SERS			1304.35	42		016731.40
	DL%U□,FK49	- EXP+-1024	EXPS IN XFN RNG	F212XA9	22223.44	60		016732.00
	C0011%BU,48□,FK49+.12,20				22223.14	80	060012.06 70	016732.40
	F+%U□,FK50	-EXP+-1997			22224.45	20		016733.40
	CT0110%BU,60□,FK49,68	-RESULT+OPND	ORIGINALLY IN ACC.		22223.00	80	074042.15 70	016734.00
	SIC,SEN				1310.00	80		016735.00
		BRGZ,SERS			1304.35	42		016735.40
	CT0110%BU,48□,FK49+.12,20				22223.14	80	060012.15 70	016736.00
	SIC,SEN				1310.00	80		016737.00
		BRGZ,SERS			1304.35	42		016737.40
	BD,\$+1.0				16741.04	00		016740.00
		B,FAF1			16646.10	00		016740.40
	SIC,SEN0+.32				1311.40	80		016741.00
		B,SSW		-SSW	1301.10	00		016741.40
	----F212-XB----SIGN AND MODIFIERS							
	-MS+MEM.SIGN,ACS+ACC.SIGN,N AND A ARE MODIFIERS							
FAF3	DL%U□,FPK23	- MS+ACS+A+1	N+0	F212XB1	22034.44	60		016742.00
	C0011%BU,48□,FPK22+.12,20				22033.14	80	060012.06 70	016742.40
	F+A%U□,FPK40	-EXP++2			22055.65	20		016743.40
	CT0110%BU,60□,FPK24,68	-TEST HIGH ORDER	RESULT FRACT,		22035.00	80	074042.15 70	016744.00
	SIC,SEN				1310.00	80		016745.00
		BRGZ,SERS	-AND EXP++1		1304.35	42		016745.40
	CT0110%BU,48□,FPK22+.12,20	-TEST LOW ORDER	RESULT FRACT.		22033.14	80	060012.15 70	016746.00
	SIC,SEN				1310.00	80		016747.00
		BRGZ,SERS			1304.35	42		016747.40
	BB,10.4,\$+2.0	-TEST SIGN BIT	1		12.04	80	016752.34 02	016750.00
	SIC,SEN				1310.00	80		016751.00
		B,SERS			1304.10	00		016751.40
	DL%U□,FPK23	- MS+ACS+N+A+1		F212XB2	22034.44	60		016752.00
	C0011%BU,48□,FPK22+.12,20				22033.14	80	060012.06 70	016752.40
	F-A%U□,FPK40				22055.75	20		016753.40
	CT0110%BU,60□,FPK22,68				22033.00	80	074042.15 70	016754.00
	SIC,SEN				1310.00	80		016755.00
		BRGZ,SERS			1304.35	42		016755.40
	CT0110%BU,48□,FPK22+.12,20	-TEST RESULT	EXP++1,FRACT+1-S		22033.14	80	060012.15 70	016756.00
	SIC,SEN				1310.00	80		016757.00
		BRGZ,SERS			1304.35	42		016757.40
	BB,10.4,\$+2.0	-TEST SIGN BIT	1		12.04	80	016762.34 02	016760.00
	SIC,SEN				1310.00	80		016761.00
		B,SERS			1304.10	00		016761.40
	BD,\$+1.0				16763.04	00		016762.00
		B,FAF3			16742.10	00		016762.40
	SIC,SEN0+.32				1311.40	80		016763.00
		B,SSW		-SSW	1301.10	00		016763.40
	----F212-XC----TEST UNCHANGED REGS							
FAF4	Z,\$L	-R 44-63	SB 0-3 + 5-7	REM 0	F212XC1	10.22	00	016764.00
	Z,\$R					11.22	00	016764.40
	Z,\$SB					12.22	00	016765.00

F+%U# , FPK21	-MEM FLAGS+7	22032.45	20		016765.40
CT0101%BU,20# , FPK0	-DOES R 44-63 REMAIN+0-S	22005.00	80	024000.13 70	016766.00
SIC,SEN		1310.00	80		016767.00
	BRGZ,SERS	1304.35	42		016767.40
CT0011%BU,4# , 10.0	-DOES SB0-3 REMAIN+0-S	12.00	80	004000.07 70	016770.00
SIC,SEN		1310.00	80		016771.00
	BRGZ,SERS	1304.35	42		016771.40
CT0011%BU,3# , 10.5	-DOES SB5-7 REMAIN+0-S	12.05	80	003000.07 70	016772.00
SIC,SEN		1310.00	80		016773.00
	BRGZ,SERS	1304.35	42		016773.40
C1111%BU,64# , FPK1,64	- R 44-63 SB 0-3 + 5-7 REM 1 F212XC2	22006.00	80	000040.36 70	016774.00
C1111%BU,64# , FPK1		22006.00	80	000000.36 70	016775.00
CM1111%BU,8# , 10.0		12.00	80	010000.36 F0	016776.00
F+%U# , FPK37		22052.45	20		016777.00
CT1010%BU,20# , FPK1	-DOES R44-63 REMAIN+1-S	22006.00	80	024000.25 70	016777.40
SIC,SEN		1310.00	80		017000.40
	BRGZ,SERS	1304.35	42		017001.00
CT1100%BU,4# , 10.0	-DOES SB0-3 REMAIN+1-S	12.00	80	004000.31 70	017001.40
SIC,SEN		1310.00	80		017002.40
	BRGZ,SERS	1304.35	42		017003.00
CT1100%BU,3# , 10.5	-DOES SB 5-7 REMAIN +1-S	12.05	80	003000.31 70	017003.40
SIC,SEN		1310.00	80		017004.40
	BRGZ,SERS	1304.35	42		017005.00
BD,s+1.0		17006.44	00		017005.40
	B,FAF4	16764.10	00		017006.00
SIC,SEN0+.32		1311.40	80		017006.40
	B,SSW	1301.10	00	- SSW	017007.00

----F213 ---ADD TO EXPONENT TEST
 ----F213A---ARITHMETIC CHECKS

FAE1	L%BU,FAE		21765.00	80	000000.20	50	017007.40
	ST%BU,DPET13		1437.00	80	000000.20	00	017010.40
	SIC,RET1		1306.40	80			017011.40
	B,1DF1		1443.10	00			017012.00
SAP15	B,\$+.32-EXPONENTS IN XFP RANGE	F213A1	17013.10	00			017012.40
	DL%U,FK36-ACC. EXP++1024		22206.44	60			017013.00
	C0011%BU,48,FK36+.12,20		22206.14	80	060012.06	70	017013.40
	E+%U,FK23-EXP. MEM++2047		22171.45	60			017014.40
	CT0110%BU,12,FK36,116-CHECK RESULT EXP+ORIGINAL ACC. EXP		22206.00	80	014072.15	70	017015.00
	SIC,SEN		1310.00	80			017016.00
	BRGZ,SERS		1304.35	42			017016.40
	CT0110%BU,48,FK36+.12,68-CHECK ACC. FRACT. UNCHANGED		22206.14	80	060042.15	70	017017.00
	SIC,SEN		1310.00	80			017020.00
	BRGZ,SERS		1304.35	42			017020.40
	CT0110%BU,48,FK36+.12,20		22206.14	80	060012.15	70	017021.00
	SIC,SEN		1310.00	80			017022.00
	BRGZ,SERS		1304.35	42			017022.40
	B,\$+.32-EXPONENTS IN XFP AND N RANGES	F213A2	17023.50	00			017023.00
	DL%U,FK36-EXP. ACC++1024		22206.44	60			017023.40
	C0011%BU,48,FK36+.12,20		22206.14	80	060012.06	70	017024.00
	E+%U,FK38-EXP. MEM++1023		22210.45	60			017025.00
	CT0110%BU,12,FK36,116-CHECK RESULT EXP+ORIGINAL ACC. EXP		22206.00	80	014072.15	70	017025.40
	SIC,SEN		1310.00	80			017026.40
	BRGZ,SERS		1304.35	42			017027.00
	CT0110%BU,48,FK36+.12,68-CHECK ACC. FRACT. UNCHANGED		22206.14	80	060042.15	70	017027.40
	SIC,SEN		1310.00	80			017030.40
	BRGZ,SERS		1304.35	42			017031.00
	CT0110%BU,48,FK36+.12,20		22206.14	80	060012.15	70	017031.40
	SIC,SEN		1310.00	80			017032.40
	BRGZ,SERS		1304.35	42			017033.00
	B,\$+.32-EXPONENTS IN XFP AND XFN RANGES	F213A3	17034.10	00			017033.40
	DL%U,FK21-EXP. ACC++2047		22167.44	60			017034.00
	C0011%BU,48,FK21+.12,20		22167.14	80	060012.06	70	017034.40
	E+%U,FK2-EXP. MEM+-2047		22007.45	60			017035.40
	CT0110%BU,12,FK21,116		22167.00	80	014072.15	70	017036.00
	SIC,SEN		1310.00	80			017037.00
	BRGZ,SERS		1304.35	42			017037.40
	CT0110%BU,48,FK21+.12,68		22167.14	80	060042.15	70	017040.00
	SIC,SEN		1310.00	80			017041.00
	BRGZ,SERS		1304.35	42			017041.40
	CT0110%BU,48,FK21+.12,20		22167.14	80	060012.15	70	017042.00
	SIC,SEN		1310.00	80			017043.00
	BRGZ,SERS		1304.35	42			017043.40
	B,\$+.32-EXPONENTS IN N AND XFP RANGES	F213A4	17044.50	00			017044.00
	DL%U,FK38-EXP. ACC++1023		22210.44	60			017044.40
	C0011%BU,48,FK38+.12,20		22210.14	80	060012.06	70	017045.00
	E+%U,FK36-EXP. MEM++1024		22206.45	60			017046.00
	CT0110%BU,12,FK36,116-RESULT EXP+EXP. FROM MEM.		22206.00	80	014072.15	70	017046.40
	SIC,SEN		1310.00	80			017047.40
	BRGZ,SERS		1304.35	42			017050.00
	CT0110%BU,48,FK38+.12,68-CHECK FOR ORIGINAL ACC. FRACT.		22210.14	80	060042.15	70	017050.40
	SIC,SEN		1310.00	80			017051.40
	BRGZ,SERS		1304.35	42			017052.00
	CT0110%BU,48,FK38+.12,20		22210.14	80	060012.15	70	017052.40
	SIC,SEN		1310.00	80			017053.40
	BRGZ,SERS		1304.35	42			017054.00
	B,\$+.32-EXPONENTS IN N RANGE	F213A5	17055.10	00			017054.40
	DL%U,FK32-EXP. ACC++2		22045.44	60			017055.00

C0011%BU,48□,FPK32+.12,20	22045.14	80	060012.06	70	017055.40
E+%U□,FPK35-EXP. MEM++2	22050.45	60			017056.40
CT0110%BU,12□,FPK62,116-CHECK RESULT EXP.++4	22103.00	80	014072.15	70	017057.00
SIC,SEN	1310.00	80			017060.00
BRGZ,SERS	1304.35	42			017060.40
CT0110%BU,48□,FPK32+.12,68-CHECK FOR ORIGINAL ACC. FRACT.	22045.14	80	060042.15	70	017061.00
SIC,SEN	1310.00	80			017062.00
BRGZ,SERS	1304.35	42			017062.40
CT0110%BU,48□,FPK32+.12,20	22045.14	80	060012.15	70	017063.00
SIC,SEN	1310.00	80			017064.00
BRGZ,SERS	1304.35	42			017064.40
B,s+.32-EXPONENTS IN N AND XFN RANGE	F213A6	17065.50	00		017065.00
DL%U□,FPK32-EXP. ACC++2	22045.44	60			017065.40
C0011%BU,48□,FPK32+.12,20	22045.14	80	060012.06	70	017066.00
E+%U□,FK25-EXP. MEM+-1791	22173.45	60			017067.00
CT0110%BU,12□,FK25,116-CHECK RESULT EXP+EXP. MEM	22173.00	80	014072.15	70	017067.40
SIC,SEN	1310.00	80			017070.40
BRGZ,SERS	1304.35	42			017071.00
CT0110%BU,48□,FPK32+.12,68-CHECK FOR ORIGINAL ACC. FRACT.	22045.14	80	060042.15	70	017071.40
SIC,SEN	1310.00	80			017072.40
BRGZ,SERS	1304.35	42			017073.00
CT0110%BU,48□,FPK32+.12,20	22045.14	80	060012.15	70	017073.40
SIC,SEN	1310.00	80			017074.40
BRGZ,SERS	1304.35	42			017075.00
B,s+.32-EXPONENTS IN XFN AND XFP RANGES	F213A7	17076.10	00		017075.40
DL%U□,FK25-EXP. ACC+-1791	22173.44	60			017076.00
C0011%BU,48□,FK25+.12,20	22173.14	80	060012.06	70	017076.40
E+%U□,FK24-EXP. MEM++1791	22172.45	60			017077.40
CT0110%BU,12□,FK24,116-CHECK RESULT EXP+EXP. MEM	22172.00	80	014072.15	70	017100.00
SIC,SEN	1310.00	80			017101.00
BRGZ,SERS	1304.35	42			017101.40
CT0110%BU,48□,FK25+.12,68-CHECK FOR ORIGINAL ACC. FRACT.	22173.14	80	060042.15	70	017102.00
SIC,SEN	1310.00	80			017103.00
BRGZ,SERS	1304.35	42			017103.40
CT0110%BU,48□,FK25+.12,20	22173.14	80	060012.15	70	017104.00
SIC,SEN	1310.00	80			017105.00
BRGZ,SERS	1304.35	42			017105.40
B,s+.32-EXPONENTS IN XFN AND N RANGES	F213A8	17106.50	00		017106.00
DL%U□,FK25-EXP. ACC+-1791	22173.44	60			017106.40
C0011%BU,48□,FK25+.12,20	22173.14	80	060012.06	70	017107.00
E+%U□,FK38-EXP. MEM++1023	22210.45	60			017110.00
CT0110%BU,12□,FK25,116-CHECK RESULT EXP+EXP. ACC	22173.00	80	014072.15	70	017110.40
SIC,SEN	1310.00	80			017111.40
BRGZ,SERS	1304.35	42			017112.00
CT0110%BU,48□,FK25+.12,68-CHECK FOR ORIGINAL ACC. FRACT.	22173.14	80	060042.15	70	017112.40
SIC,SEN	1310.00	80			017113.40
BRGZ,SERS	1304.35	42			017114.00
CT0110%BU,48□,FK25+.12,20	22173.14	80	060012.15	70	017114.40
SIC,SEN	1310.00	80			017115.40
BRGZ,SERS	1304.35	42			017116.00
B,s+.32-EXPONENTS IN XFN RANGE	F213A9	17117.10	00		017116.40
DL%U□,FK25-EXP. ACC+-1791	22173.44	60			017117.00
C0011%BU,48□,FK25+.12,20	22173.14	80	060012.06	70	017117.40
E+%U□,FPK2-EXP. MEM+-2047	22007.45	60			017120.40
CT0110%BU,12□,FK25,116-CHECK RESULT EXP+ACC. EXP	22173.00	80	014072.15	70	017121.00
SIC,SEN	1310.00	80			017122.00
BRGZ,SERS	1304.35	42			017122.40
CT0110%BU,48□,FK25+.12,68-CHECK FOR ORIGINAL ACC. FRACT.	22173.14	80	060042.15	70	017123.00
SIC,SEN	1310.00	80			017124.00
BRGZ,SERS	1304.35	42			017124.40
CT0110%BU,48□,FK25+.12,20	22173.14	80	060012.15	70	017125.00
SIC,SEN	1310.00	80			017126.00
BRGZ,SERS	1304.35	42			017126.40
-NORMALIZATION MODIFIER					
B,s+.32-CHECK NORMALIZATION SUPPRESSED	F213A10	17127.50	00		017127.00
DL%U□,FK21	22167.44	60			017127.40

C0011%BU,48□,FK21+.12,20		22167.14	80	060012.06	70	017130.00
E+%N□,FK39-RESULT EXP. HAS PROPAGATED EF+1		22211.05	60			017131.00
CT0110%BU,60□,FK21,68-ERROR IF RESULT NORMALIZED		22167.00	80	074042.15	70	017131.40
SIC,SEN		1310.00	80			017132.40
BRGZ,SERS		1304.35	42			017133.00
CT0110%BU,48□,FK21+.12,20		22167.14	80	060012.15	70	017133.40
SIC,SEN		1310.00	80			017134.40
BRGZ,SERS		1304.35	42			017135.00
B,s+.32-CHECK NORMALIZATION SUPPRESSED	F213A11	17136.10	00			017135.40
DL%U□,FK39		22211.44	60			017136.00
C0011%BU,48□,FK39+.12,20		22211.14	80	060012.06	70	017136.40
E+%N□,FK39 - RESULT HAS GEN EF+1 + ES+1		22211.05	60			017137.40
CT0110%BU,60□,FK56,68-ERROR IF RESULT NORMALIZED		22232.00	80	074042.15	70	017140.00
SIC,SEN		1310.00	80			017141.00
BRGZ,SERS		1304.35	42			017141.40
CT0110%BU,48□,FK56+.12,20		22232.14	80	060012.15	70	017142.00
SIC,SEN		1310.00	80			017143.00
BRGZ,SERS		1304.35	42			017143.40
B,s+.32-CHECK NORMALIZATION OCCURS	F213A12	17144.50	00			017144.00
DL%U□,FK47		22221.44	60			017144.40
C0011%BU,48□,FK46+.12,20		22220.14	80	060012.06	70	017145.00
E+%N□,FK38-RESULT HAS GENERATED EF+1 AND, ES+0		22210.05	60			017146.00
CT0110%BU,60□,FK57,68-ERROR IF RESULT NOT NORMALIZED		22233.00	80	074042.15	70	017146.40
SIC,SEN		1310.00	80			017147.40
BRGZ,SERS		1304.35	42			017150.00
CT0110%BU,48□,FK48+.12,20		22222.14	80	060012.15	70	017150.40
SIC,SEN		1310.00	80			017151.40
BRGZ,SERS		1304.35	42			017152.00
B,s+.32-CHECK NORMALIZATION OCCURS	F213A13	17153.10	00			017152.40
DL%U□,FK87		22125.44	60			017153.00
C0011%BU,48□,FK32+.12,20		22045.14	80	060012.06	70	017153.40
E+%N□,FK88-RESULT HAS EF+0		22126.05	60			017154.40
CT0110%BU,60□,FK58,68-ERROR IF RESULT NOT NORMALIZED		22234.00	80	074042.15	70	017155.00
SIC,SEN		1310.00	80			017156.00
BRGZ,SERS		1304.35	42			017156.40
CT0110%BU,48□,FK97+.12,20		22137.14	80	060012.15	70	017157.00
SIC,SEN		1310.00	80			017160.00
BRGZ,SERS		1304.35	42			017160.40
BD,\$+1.0		17162.04	00			017161.00
B,FAE1		17007.50	00			017161.40
SIC,SEN0+.32		1311.40	80			017162.00
B,SSW -	SSW	1301.10	00			017162.40

-TESTS OF SIGN AND MODIFIER VARIATIONS F213B
 -MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS F213B1
 -THE SIGN MODIFIERS APPLY TO THE SIGN OF THE EXPONENTS ONLY

FAE3	DL%U, FPK13-EXP++7	22022.44	60		017163.00
	E+%U, FPK16-EXP++19	22025.45	60		017163.40
	CT0110%BU, 12, FPK20, 116-TEST RESULT EXP. + +26	22031.00	80	014072.15 70	017164.00
	SIC, SEN	1310.00	80		017165.00
	BRGZ, SERS	1304.35	42		017165.40
	- MS+ACS+N+0 A+1 F213 B2				
	DL%U, FPK13-EXP++7	22022.44	60		017166.00
	E+A%U, FPK16-EXP++19	22025.65	60		017166.40
	CT0110%BU, 12, FPK20, 116-TEST RESULT EXP. + +26	22031.00	80	014072.15 70	017167.00
	SIC, SEN	1310.00	80		017170.00
	BRGZ, SERS	1304.35	42		017170.40
	- MS+ACS+A+0 N+1 F213 B3				
	DL%U, FPK16-EXP++19	22025.44	60		017171.00
	E-%U, FPK11-MODIFIED EXP+-6	22020.55	60		017171.40
	CT0110%BU, 12, FPK14, 116-TEST RESULT EXP + +13	22023.00	80	014072.15 70	017172.00
	SIC, SEN	1310.00	80		017173.00
	BRGZ, SERS	1304.35	42		017173.40
	- MS+ACS+0 N+A+1 F213 B4				
	DL%U, FPK16-EXP++19	22025.44	60		017174.00
	E-A%U, FPK11-MODIFIED EXP.+-6	22020.75	60		017174.40
	CT0110%BU, 12, FPK14, 116-TEST RESULT EXP. + +13	22023.00	80	014072.15 70	017175.00
	SIC, SEN	1310.00	80		017176.00
	BRGZ, SERS	1304.35	42		017176.40
	- MS+N+A+0 ACS+1 F213 B5				
	DL%U, FPK51-EXP+-6	22070.44	60		017177.00
	E+%U, FPK16-EXP++19	22025.45	60		017177.40
	CT0110%BU, 12, FPK14, 116-TEST RESULT EXP + +13	22023.00	80	014072.15 70	017200.00
	SIC, SEN	1310.00	80		017201.00
	BRGZ, SERS	1304.35	42		017201.40
	- MS+N+0 ACS+A+1 F213 B6				
	DL%U, FPK51-EXP+-6	22070.44	60		017202.00
	E+A%U, FPK16-EXP++19	22025.65	60		017202.40
	CT0110%BU, 12, FPK14, 116-TEST RESULT EXP. + +13	22023.00	80	014072.15 70	017203.00
	SIC, SEN	1310.00	80		017204.00
	BRGZ, SERS	1304.35	42		017204.40
	- MS+A+0 ACS+N+1 F213 B7				
	DL%U, FPK47-EXP+-256	22064.44	60		017205.00
	E-%U, FPK0-EXP+-0	22005.55	60		017205.40
	CT0110%BU, 12, FPK47, 116-TEST RESULT EXP. + -256	22064.00	80	014072.15 70	017206.00
	SIC, SEN	1310.00	80		017207.00
	BRGZ, SERS	1304.35	42		017207.40
	- MS+0 ACS+N+A+1 F213 B8				
	DL%U, FPK47-EXP+-256	22064.44	60		017210.00
	E-A%U, FPK0-EXP+-0	22005.75	60		017210.40
	CT0110%BU, 12, FPK47, 116-TEST RESULT EXP. + -256	22064.00	80	014072.15 70	017211.00
	SIC, SEN	1310.00	80		017212.00
	BRGZ, SERS	1304.35	42		017212.40
	- MS+1 ACS+N+A+0 F213 B9				
	DL%U, FPK0-EXP++0	22005.44	60		017213.00
	E+%U, FPK47-EXP+-256	22064.45	60		017213.40
	CT0110%BU, 12, FPK47, 116-TEST RESULT EXP. + -256	22064.00	80	014072.15 70	017214.00
	SIC, SEN	1310.00	80		017215.00
	BRGZ, SERS	1304.35	42		017215.40
	- MS+A+1 ACS+N+0 F213 B10				
	DL%U, FPK28-EXP++256	22041.44	60		017216.00
	E+A%U, FPK48 - EXP+-1791	22065.65	60		017216.40
	CT0110%BU, 12, FK30, 116 - CHECK RESULT EXP+-1791	22200.00	80	014072.15 70	017217.00
	SIC, SEN	1310.00	80		017217.40

	BRGZ,SERS				1304.35	42		017220.40
		- MS+N+1	ACS+A+0	F213 B11				
	DL%U#	FPK28-EXP++256			22041.44	60		017221.00
	E-%U#	FPK48 - EXP+-1791			22065.55	60		017221.40
	CT0110%BU	12#	FK30,116	- CHECK RESULT EXP+-1791	22200.00	80	014072.15 70	017222.00
	SIC,SEN				1310.00	80		017223.00
	BRGZ,SERS				1304.35	42		017223.40
		- MS+N+A+1	ACS+0	F213 B12				
	DL%U#	FPK21-EXP++50			22032.44	60		017224.00
	E-A%U#	FPK46-EXP+-94			22063.75	60		017224.40
	CT0110%BU	12#	FK49,116	- TEST RESULT EXP. + -44	22056.00	80	014072.15 70	017225.00
	SIC,SEN				1310.00	80		017226.00
	BRGZ,SERS				1304.35	42		017226.40
		- MS+ACS+1	N+A+0	F213 B13				
	DL%U#	FPK47-EXP+-256			22064.44	60		017227.00
	E+%U#	FPK48-EXP+-1791			22065.45	60		017227.40
	CT0110%BU	12#	FK25,116	- TEST RESULT EXP+-1791	22173.00	80	014072.15 70	017230.00
	SIC,SEN				1310.00	80		017231.00
	BRGZ,SERS				1304.35	42		017231.40
		- MS+ACS+A+1	N+0	F213 B14				
	DL%U#	FPK45-EXP+-46			22062.44	60		017232.00
	E+A%U#	FPK50-EXP++50			22067.65	60		017232.40
	CT0110%BU	12#	FK8,116	- TEST RESULT EXP. + +4	22015.00	80	014072.15 70	017233.00
	SIC,SEN				1310.00	80		017234.00
	BRGZ,SERS				1304.35	42		017234.40
		- MS+ACS+N+1	A+0	F213 B15				
	DL%U#	FPK45-EXP+-46			22062.44	60		017235.00
	E-%U#	FPK50-EXP++50			22067.55	60		017235.40
	CT0110%BU	12#	FK8,116	- TEST RESULT EXP. + +4	22015.00	80	014072.15 70	017236.00
	SIC,SEN				1310.00	80		017237.00
	BRGZ,SERS				1304.35	42		017237.40
		- MS+ACS+N+A+1		F213 B16				
	DL%U#	FPK47-EXP+-256			22064.44	60		017240.00
	E-A%U#	FPK48-EXP+-1791			22065.75	60		017240.40
	CT0110%BU	12#	FK25,116	- TEST RESULT EXP+-1791	22173.00	80	014072.15 70	017241.00
	SIC,SEN				1310.00	80		017242.00
	BRGZ,SERS				1304.35	42		017242.40
	BD,\$+1.0				17244.04	00		017243.00
	B,FAE3				17163.10	00		017243.40
	SIC,SEN0+.32				1311.40	80		017244.00
	B,SSW -			SSW	1301.10	00		017244.40
	-TEST UNCHANGED REGISTERS			F213C				
FAE4	Z,\$L				10.22	00		017245.00
	Z,\$R				11.22	00		017245.40
	Z,\$SB				12.22	00		017246.00
	E+%U#	FPK1			22006.45	60		017246.40
	CT0101%BU	20#	FPK0-CHECK R44-63	REMAIN+0	22005.00	80	024000.13 70	017247.00
	SIC,SEN				1310.00	80		017250.00
	BRGZ,SERS				1304.35	42		017250.40
	CT0011%BU	8#	10.0-CHECK S80-7	REMAIN+0	12.00	80	010000.07 70	017251.00
	SIC,SEN				1310.00	80		017252.00
	BRGZ,SERS				1304.35	42		017252.40
	B,\$+.32-1 S	REMAIN 1 S,	R44-63 AND S80-7	F213C2	17253.50	00		017253.00
	C1111%BU	64#	FPK1,64		22006.00	80	000040.36 70	017253.40
	C1111%BU	64#	FPK1		22006.00	80	000000.36 70	017254.40
	CM1111%BU	8#	10.0		12.00	80	010000.36 F0	017255.40
	E+%U#	FPK0			22005.45	60		017256.40
	CT1010%BU	20#	FPK1-CHECK R44-63	REMAIN+1 S	22006.00	80	024000.25 70	017257.00
	SIC,SEN				1310.00	80		017260.00
	BRGZ,SERS				1304.35	42		017260.40
	CT1100%BU	8#	10.0-CHECK S80-7	REMAIN+1 S	12.00	80	010000.31 70	017261.00
	SIC,SEN				1310.00	80		017262.00
	BRGZ,SERS				1304.35	42		017262.40
	BD,\$+1.0				17264.04	00		017263.00
	B,FAE4				17245.10	00		017263.40
	SIC,SEN0+.32				1311.40	80		017264.00

B,SSW -		SSW	1301.10 00	017264.40
-INDICATOR TESTS				
-ARITHMETIC RESULT INDICATORS				
FAE5	DL%U# , FPK1	-TEST RLZ AND RN OFF TO ON	F213D1	22006.44 60
	Z, \$IND			13.22 00
	E+%U# , FPK3			22010.45 60
	SIC, SEN			1310.00 80
	BZRLZ, SERS	-ERROR IF RLZ, RN OFF AND RZ OR RGZ ON		1304.34 40
	SIC, SEN			1310.00 80
	BZRN, SERS			1304.35 C0
	SIC, SEN			1310.00 80
	BRZ, SERS			1304.34 C2
	SIC, SEN			1310.00 80
	BRGZ, SERS			1304.35 42
	DLN%U# , FPK0	-TEST RN AND RZ OFF TO ON	F213D2	22005.54 60
	Z, \$IND			13.22 00
	E+%U# , FPK0			22005.45 60
	SIC, SEN			1310.00 80
	BZRN, SERS	-ERROR IF RN, RZ OFF AND RLZ OR RGZ ON		1304.35 C0
	SIC, SEN			1310.00 80
	BZRZ, SERS			1304.34 C0
	SIC, SEN			1310.00 80
	BRLZ, SERS			1304.34 42
	SIC, SEN			1310.00 80
	BRGZ, SERS			1304.35 42
	DL%U# , FPK0	-TEST RZ OFF TO ON	F213D3	22005.44 60
	Z, \$IND			13.22 00
	E+%U# , FPK0			22005.45 60
	SIC, SEN			1310.00 80
	BZRZ, SERS	-ERROR IF RZ OFF AND RLZ, RN OR RGZ ON		1304.34 C0
	SIC, SEN			1310.00 80
	BRLZ, SERS			1304.34 42
	SIC, SEN			1310.00 80
	BRN, SERS			1304.35 C2
	SIC, SEN			1310.00 80
	BRGZ, SERS			1304.35 42
	DL%U# , FPK28	-TEST RGZ OFF TO ON	F213D4	22041.44 60
	Z, \$IND			13.22 00
	E+%U# , FPK28			22041.45 60
	SIC, SEN			1310.00 80
	BZRGZ, SERS	-ERROR IF RGZ OFF AND RLZ, RN OR RZ ON		1304.35 40
	SIC, SEN			1310.00 80
	BRLZ, SERS			1304.34 42
	SIC, SEN			1310.00 80
	BRN, SERS			1304.35 C2
	SIC, SEN			1310.00 80
	BRZ, SERS	-ERROR IF RZ INDICATOR ON		1304.34 C2
-EXPONENT RANGE INDICATORS				
	B, \$+.32	-TEST XFPF, OFF TO ON	F213D5	17313.50 00
	DL%U# , FK21	-EXP. ACC++2047		22167.44 60
	Z, \$IND			13.22 00
	E+%U# , FK22	-EXP. MEM++512		22170.45 60
	BB, 11.28, \$+2.	-ERROR IF XFPF OFF AND,		13.34 80 017317.34 02
	SIC, SEN			1310.00 80
	B, SERS	-OTHER EXPONENT INDS. ON		1304.10 00
	BZB, 11.29, \$+2.			13.35 80 017321.34 00
	SIC, SEN			1310.00 80
	B, SERS			1304.10 00
	BZB, 11.30, \$+2.			13.36 80 017323.34 00
	SIC, SEN			1310.00 80
	B, SERS			1304.10 00
	BZB, 11.31, \$+2.			13.37 80 017325.34 00
	SIC, SEN			1310.00 80
	B, SERS			1304.10 00
	BZB, 11.32, \$+2.			13.40 80 017327.34 00
	SIC, SEN			1310.00 80

B,SERS	1304.10	00		017326.40
BZB,11.33,\$+2.0 - TEST ZM IND OFF	13.41	80	017331.34 00	017327.00
SIC,SEN	1310.00	80		017330.00
B,SERS	1304.10	00		017330.40
B,\$+.32-TEST XPO, OFF TO ON	F213D6	17331.50	00	017331.00
DL%U#FK38-EXP. ACC++1023		22210.44	60	017331.40
Z,\$IND		13.22	00	017332.00
E+%U#FK33-EXP. MEM++1		22203.45	60	017332.40
BB,11.29,\$+2.-ERROR IF XPO OFF AND,		13.35	80 017335.34 02	017333.00
SIC,SEN		1310.00	80	017334.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00	017334.40
BZB,11.28,\$+2.		13.34	80 017337.34 00	017335.00
SIC,SEN		1310.00	80	017336.00
B,SERS		1304.10	00	017336.40
BZB,11.30,\$+2.		13.36	80 017341.34 00	017337.00
SIC,SEN		1310.00	80	017340.00
B,SERS		1304.10	00	017340.40
BZB,11.31,\$+2.		13.37	80 017343.34 00	017341.00
SIC,SEN		1310.00	80	017342.00
B,SERS		1304.10	00	017342.40
BZB,11.32,\$+2.		13.40	80 017345.34 00	017343.00
SIC,SEN		1310.00	80	017344.00
B,SERS		1304.10	00	017344.40
BZB,11.33,\$+2.0 - TEST ZM IND OFF		13.41	80 017347.34 00	017345.00
SIC,SEN		1310.00	80	017346.00
B,SERS		1304.10	00	017346.40
B,\$+.32-TEST XPH, OFF TO ON	F213D7	17347.50	00	017347.00
DL%U#FK28-EXP. ACC++256		22041.44	60	017347.40
Z,\$IND		13.22	00	017350.00
E+%U#FK28-EXP. MEM++256		22041.45	60	017350.40
BB,11.30,\$+2.-ERROR IF XPH IND. OFF AND,		13.36	80 017353.34 02	017351.00
SIC,SEN		1310.00	80	017352.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00	017352.40
BZB,11.28,\$+2.		13.34	80 017355.34 00	017353.00
SIC,SEN		1310.00	80	017354.00
B,SERS		1304.10	00	017354.40
BZB,11.29,\$+2.		13.35	80 017357.34 00	017355.00
SIC,SEN		1310.00	80	017356.00
B,SERS		1304.10	00	017356.40
BZB,11.31,\$+2.		13.37	80 017361.34 00	017357.00
SIC,SEN		1310.00	80	017360.00
B,SERS		1304.10	00	017360.40
BZB,11.32,\$+2.		13.40	80 017363.34 00	017361.00
SIC,SEN		1310.00	80	017362.00
B,SERS		1304.10	00	017362.40
BZB,11.33,\$+2.0 - TEST ZM IND OFF		13.41	80 017365.34 00	017363.00
SIC,SEN		1310.00	80	017364.00
B,SERS		1304.10	00	017364.40
B,\$+.32-TEST XPL, OFF TO ON	F213D8	17365.50	00	017365.00
DL%U#FK4-EXP. ACC++198		22146.44	60	017365.40
Z,\$IND		13.22	00	017366.00
E+%U#FK7-EXP. MEM++2		22151.45	60	017366.40
BB,11.31,\$+2.-ERROR IF XPL OFF		13.37	80 017371.34 02	017367.00
SIC,SEN		1310.00	80	017370.00
B,SERS		1304.10	00	017370.40
BZB,11.28,\$+2.		13.34	80 017373.34 00	017371.00
SIC,SEN		1310.00	80	017372.00
B,SERS		1304.10	00	017372.40
BZB,11.29,\$+2.		13.35	80 017375.34 00	017373.00
SIC,SEN		1310.00	80	017374.00
B,SERS		1304.10	00	017374.40
BZB,11.30,\$+2.		13.36	80 017377.34 00	017375.00
SIC,SEN		1310.00	80	017376.00
B,SERS		1304.10	00	017376.40
BZB,11.32,\$+2.		13.40	80 017401.34 00	017377.00
SIC,SEN		1310.00	80	017400.00

B,SERS			1304.10 00		017400.40
BZB,11.33,\$+2.0	- TEST ZM IND OFF		13.41 80	017403.34 00	017401.00
SIC,SEN			1310.00 80		017402.00
B,SERS			1304.10 00		017402.40
B,\$+.32-TEST XPU, OFF TO ON		F213D9	17403.50 00		017403.00
DL%UH,FK39-EXP+-1023			22211.44 60		017403.40
Z,SIND			13.22 00		017404.00
E+%UH,FK39			22211.45 60		017404.40
BB,11.32,\$+2.-ERROR IF XPU OFF AND,			13.40 80	017407.34 02	017405.00
SIC,SEN			1310.00 80		017406.00
B,SERS-OTHER EXPONENT INDS. ON			1304.10 00		017406.40
BZB,11.28,\$+2.			13.34 80	017411.34 00	017407.00
SIC,SEN			1310.00 80		017410.00
B,SERS			1304.10 00		017410.40
BZB,11.29,\$+2.			13.35 80	017413.34 00	017411.00
SIC,SEN			1310.00 80		017412.00
B,SERS			1304.10 00		017412.40
BZB,11.30,\$+2.			13.36 80	017415.34 00	017413.00
SIC,SEN			1310.00 80		017414.00
B,SERS			1304.10 00		017414.40
BZB,11.31,\$+2.			13.37 80	017417.34 00	017415.00
SIC,SEN			1310.00 80		017416.00
B,SERS			1304.10 00		017416.40
BZB,11.33,\$+2.0	- TEST ZM IND OFF		13.41 80	017421.34 00	017417.00
SIC,SEN			1310.00 80		017420.00
B,SERS			1304.10 00		017420.40
BD,\$+1.0			17422.04 00		017421.00
B,FAE5			17265.10 00		017421.40
SIC,SEN0+.32			1311.40 80		017422.00
B,SSW	-	SSW	1301.10 00		017422.40

----F213-X---ADD TO EXPONENT IMMEDIATE TEST

----F213XA---ARITHMETIC CHECKS

FAE11	L%BU,FAE1			21766.00	80	000000.20	50	017423.00
	ST%BU,DPET13			1437.00	80	000000.20	D0	017424.00
	SIC,RET1			1306.40	80			017425.00
	E,IDE1			1443.10	00			017425.40
SAP16	DL%U,FK24	- EXPONENT ACC++1791	F213XA1	22172.44	60			017426.00
	CO011%BU,48,FK24+.12,20			22172.14	80	060012.06	70	017426.40
	E+1%U,+2047	-EFF.ADD RESS++2047		777600.47	60			017427.40
	CT0110%BU,12,FK24,116	-CHECK RESULT EXP,+ACC.EXP.		22172.00	80	014072.15	70	017430.00
	SIC,SEN			1310.00	80			017431.00
	BRGZ,SERS			1304.35	42			017431.40
	CT0110%BU,48,FK24+.12,68	-CHECK ORIGINAL ACC. FRACTION		22172.14	80	060042.15	70	017432.00
	SIC,SEN			1310.00	80			017433.00
	BRGZ,SERS			1304.35	42			017433.40
	CT0110%BU,48,FK24+.12,20			22172.14	80	060012.15	70	017434.00
	SIC,SEN			1310.00	80			017435.00
	BRGZ,SERS			1304.35	42			017435.40
	DL%U,FK36	-EXP ACC + +1024	F213XA2	22206.44	60			017436.00
	CO011%BU,48,FK36+.12,20			22206.14	80	060012.06	70	017436.40
	E+1%U,+1023	-EFF.ADD RESS++1023		377600.47	60			017437.40
	CT0110%BU,12,FK36,116	-CHECK RESULT EXP+ACC.EXP		22206.00	80	014072.15	70	017440.00
	SIC,SEN			1310.00	80			017441.00
	BRGZ,SERS			1304.35	42			017441.40
	CT0110%BU,48,FK36+.12,68	-CHECK ACC FRACT.UNCHANGED		22206.14	80	060042.15	70	017442.00
	SIC,SEN			1310.00	80			017443.00
	BRGZ,SERS			1304.35	42			017443.40
	CT0110%BU,48,FK36+.12,20			22206.14	80	060012.15	70	017444.00
	SIC,SEN			1310.00	80			017445.00
	BRGZ,SERS			1304.35	42			017445.40
	DL%U,FK24	-EXP ACC + +1791	F213XA3	22172.44	60			017446.00
	CO011%BU,48,FK24+.12,20			22172.14	80	060012.06	70	017446.40
	E+1%U,-1791	-EFF.ADDRESS+-1791		677700.47	60			017447.40
	CT0110%BU,12,FK24,116	-CHECK RESULT EXP+ACC.EXP		22172.00	80	014072.15	70	017450.00
	SIC,SEN			1310.00	80			017451.00
	BRGZ,SERS			1304.35	42			017451.40
	CT0110%BU,48,FK24+.12,68	-CHECK ACC.FRACTION UNCHANGED		22172.14	80	060042.15	70	017452.00
	SIC,SEN			1310.00	80			017453.00
	BRGZ,SERS			1304.35	42			017453.40
	CT0110%BU,48,FK24+.12,20			22172.14	80	060012.15	70	017454.00
	SIC,SEN			1310.00	80			017455.00
	BRGZ,SERS			1304.35	42			017455.40
	DL%U,FK39	-EXP ACC + +-1023	F213XA4	22211.44	60			017456.00
	CO011%BU,48,FK39+.12,20			22211.14	80	060012.06	70	017456.40
	E+1%U,-1023	-EFF.ADDRESS+-1023		377700.47	60			017457.40
	CT0110%BU,12,FK36,116	-CHECK RESULT EXP+-2046		22232.00	80	014072.15	70	017460.00
	SIC,SEN			1310.00	80			017461.00
	BRGZ,SERS			1304.35	42			017461.40
	CT0110%BU,48,FK39+.12,68	-CHECK ACC.FRACTION UNCHANGED		22211.14	80	060042.15	70	017462.00
	SIC,SEN			1310.00	80			017463.00
	BRGZ,SERS			1304.35	42			017463.40
	CT0110%BU,48,FK39+.12,20			22211.14	80	060012.15	70	017464.00
	SIC,SEN			1310.00	80			017465.00
	BRGZ,SERS			1304.35	42			017465.40
	DL%U,FK32	- EXP ACC + +2	F213XA5	22045.44	60			017466.00
	CO011%BU,48,FK32+.12,20			22045.14	80	060012.06	70	017466.40
	E+1%U,+2	-EFF.ADDRESS++2		400.47	60			017467.40
	CT0110%BU,12,FK62,116	-CHECK RESULT EXP++4		22103.00	80	014072.15	70	017470.00
	SIC,SEN			1310.00	80			017471.00
	BRGZ,SERS			1304.35	42			017471.40
	CT0110%BU,48,FK32+.12,68	-CHECK ACC.FRACT.UNCHANGED		22045.14	80	060042.15	70	017472.00
	SIC,SEN			1310.00	80			017473.00

	BRGZ,SERS		1304.35	42			017473.40
	CT0110%BU,48□,FK32+.12,20	-CHECK ACC.FRACT.UNCHANGED	22045.14	80	060012.15	70	017474.00
	SIC,SEN		1310.00	80			017475.00
	BRGZ,SERS		1304.35	42			017475.40
	DL%U□,FK49	-EXP ACC + -1024	F213XA6	22223.44	60		017476.00
	C0011%BU,48□,FK49+.12,20		22223.14	80	060012.06	70	017476.40
	E+I%U□,-1023	-EFF. ADDRESS + -1023		377700.47	60		017477.40
	CT0110%BU,12□,FK49,116	-CHECK RESULT EXP + ACC. EXP		22223.00	80	014072.15	70
	SIC,SEN		1310.00	80			017501.00
	BRGZ,SERS		1304.35	42			017501.40
	CT0110%BU,48□,FK49+.12,68	-CHECK ACC.FRACT.UNCHANGED		22223.14	80	060042.15	70
	SIC,SEN		1310.00	80			017503.00
	BRGZ,SERS		1304.35	42			017503.40
	CT0110%BU,48□,FK49+.12,20			22223.14	80	060012.15	70
	SIC,SEN		1310.00	80			017505.00
	BRGZ,SERS		1304.35	42			017505.40
	DL%U□,FK2	- EXP ACC + -2047	F213XA7	22007.44	60		017506.00
	C0011%BU,48□,FK2+.12,20		22007.14	80	060012.06	70	017506.40
	E+I%U□,-1791	-EFF. ADDRESS+-1791		677700.47	60		017507.40
	CT0110%BU,12□,FK2,116	-CHECK RESULT EXP.+ACC.EXP.		22007.00	80	014072.15	70
	SIC,SEN		1310.00	80			017511.00
	BRGZ,SERS		1304.35	42			017511.40
	CT0110%BU,48□,FK2+.12,68	-CHECK ACC.FRACT.1NCHANGED		22007.14	80	060042.15	70
	SIC,SEN		1310.00	80			017513.00
	BRGZ,SERS		1304.35	42			017513.40
	CT0110%BU,48□,FK2+.12,20			22007.14	80	060012.15	70
	SIC,SEN		1310.00	80			017515.00
	BRGZ,SERS		1304.35	42			017515.40
	-CHECK THAT BITS TO THE RIGHT OF EFFECTIVE ADDRESS ARE IGNORED						
					F213XA8		
	CM1111%BU,6,8□,DIN+.12	-ENTERS 1-S TO RIGHT OF EFF.ADDRESS		17520.54	80	006000.36	F0
	DL%U□,FK47	-EXP.ACC+-256		22064.44	60		
	C0011%BU,48□,FK47+.12,20			22064.14	80	060012.06	70
DIN	E+I%U□,-1791	-EFF. ADDRESS+-1791		677700.47	60		
	CT0110%BU,12□,FK25,116	- CHECK RESULT EXP+-1791		22173.00	80	014072.15	70
	SIC,SEN		1310.00	80			017522.00
	BRGZ,SERS		1304.35	42			017522.40
	CT0110%BU,48□,FK47+.12,68			22064.14	80	060042.15	70
	SIC,SEN		1310.00	80			017524.00
	BRGZ,SERS		1304.35	42			017524.40
	CT0110%BU,48□,FK47+.12,20			22064.14	80	060012.15	70
	SIC,SEN		1310.00	80			017526.00
	BRGZ,SERS		1304.35	42			017526.40
	BD,s+1.0			17530.04	00		
	B,FAE11			17423.10	00		
	SIC,SEN0+.32			1311.40	80		
	B,SSW	-SSW		1301.10	00		

-----F213-XB---TEST SIGN AND MOD COMBS
 -MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS
 -THE SIGN MODIFIERS APPLY TO THE SIGN OF THE EXPONENT ONLY
 - MS+ACS+N+A+0 F213XB1

FAE13	DL%U□, FPK13-EXP++7	22022.44	60			017531.00
	E+I%U□,+6	1400.47	60			017531.40
	CT0110%BU, 12□, FPK14, 116-TEST RESULT EXPONENT + +13	22023.00	80	014072.15	70	017532.00
	SIC, SEN	1310.00	80			017533.00
	BRGZ, SERS	1304.35	42			017533.40
	- MS+ACS+N+0 A+1 F213XB2					
	DL%U□, FPK13-EXP++7	22022.44	60			017534.00
	E+A I%U□,+6	1400.67	60			017534.40
	CT0110%BU, 12□, FPK14, 116-TEST RESULT EXPONENT + +13	22023.00	80	014072.15	70	017535.00
	SIC, SEN	1310.00	80			017536.00
	BRGZ, SERS	1304.35	42			017536.40
	- MS+ACS+A+0 N+1 F213XB3					
	DL%U□, FPK13-EXP++7	22022.44	60			017537.00
	E-I%U□,+6	1400.57	60			017537.40
	CT0110%BU, 12□, FPK4, 116-TEST RESULT EXPONENT + +1	22011.00	80	014072.15	70	017540.00
	SIC, SEN	1310.00	80			017541.00
	BRGZ, SERS	1304.35	42			017541.40
	- MS+ACS+0 N+A+1 F213XB4					
	DL%U□, FPK13-EXP++7	22022.44	60			017542.00
	E-A I%U□,+6	1400.77	60			017542.40
	CT0110%BU, 12□, FPK4, 116-TEST RESULT EXPONENT + +1	22011.00	80	014072.15	70	017543.00
	SIC, SEN	1310.00	80			017544.00
	BRGZ, SERS	1304.35	42			017544.40
	- MS+N+A+0 ACS+1 F213XB5					
	DL%U□, FPK51-EXP + -6	22070.44	60			017545.00
	E+I%U□,+7	1600.47	60			017545.40
	CT0110%BU, 12□, FPK4, 116-TEST RESULT EXP + +1	22011.00	80	014072.15	70	017546.00
	SIC, SEN	1310.00	80			017547.00
	BRGZ, SERS	1304.35	42			017547.40
	- MS+N+0+0 ACS+A+1 F213XB6					
	DL%U□, FPK51-EXP + -6	22070.44	60			017550.00
	E+A I%U□,+7	1600.67	60			017550.40
	CT0110%BU, 12□, FPK4, 116-TEST RESULT EXP + +1	22011.00	80	014072.15	70	017551.00
	SIC, SEN	1310.00	80			017552.00
	BRGZ, SERS	1304.35	42			017552.40
	- MS+A+0+0 ACS+N+1 F213XB7					
	DL%U□, FPK51-EXP + -6	22070.44	60			017553.00
	E-I%U□,+250	76400.57	60			017553.40
	CT0110%BU, 12□, FK34, 116-TEST RESULT EXP + -256	22204.00	80	014072.15	70	017554.00
	SIC, SEN	1310.00	80			017555.00
	BRGZ, SERS	1304.35	42			017555.40
	- MS+0 ACS+N+A+1 F213XB8					
	DL%U□, FPK51-EXPONENT + -6	22070.44	60			017556.00
	E-A I%U□,+250	76400.77	60			017556.40
	CT0110%BU, 12□, FK34, 116-TEST RESULT EXP + -256	22204.00	80	014072.15	70	017557.00
	SIC, SEN	1310.00	80			017560.00
	BRGZ, SERS	1304.35	42			017560.40
	- MS+1 ACS+N+A+0 F213XB9					
	DL%U□, FPK14-EXPONENT + +13	22023.44	60			017561.00
	E+I%U□,-7	1700.47	60			017561.40
	CT0110%BU, 12□, FPK11, 116-TEST RESULT EXP + +6	22020.00	80	014072.15	70	017562.00
	SIC, SEN	1310.00	80			017563.00
	BRGZ, SERS	1304.35	42			017563.40
	- MS+A+1 ACS+N+0 F213XB10					
	DL%U□, FPK14-EXPONENT + +13	22023.44	60			017564.00
	E+A I%U□,-5	1300.67	60			017564.40
	CT0110%BU, 12□, FK121, 116 - CHECK RESULT EXP++18	22332.00	80	014072.15	70	017565.00
	SIC, SEN	1310.00	80			017566.00

	BRGZ,SERS	- MS+N+1	ACS+A+0	F213XB11	1304.35	42		017566.40
	DL%U□, FPK14-EXPONENT + +13				22023.44	60		017567.00
	E-I%U□,-5				1300.57	60		017567.40
	CT0110%BU,12□,FK121,116 - CHECK RESULT EXP++18				22332.00	80	014072.15 70	017570.00
	SIC,SEN				1310.00	80		017571.00
	BRGZ,SERS				1304.35	42		017571.40
		- MS+N+A+1	ACS+0	F213XB12				
	DL%U□, FPK14-EXPONENT + +13				22023.44	60		017572.00
	E-AI%U□,-7				1700.77	60		017572.40
	CT0110%BU,12□,FK11,116-TEST RESULT EXP + +6				22020.00	80	014072.15 70	017573.00
	SIC,SEN				1310.00	80		017574.00
	BRGZ,SERS				1304.35	42		017574.40
		- MS+ACS+1	N+A+0	F213XB13				
	DL%U□, FPK51-EXPONENT + -6				22070.44	60		017575.00
	E+I%U□,-250				76500.47	60		017575.40
	CT0110%BU,12□,FK34,116-TEST RESULT EXP + -256				22204.00	80	014072.15 70	017576.00
	SIC,SEN				1310.00	80		017577.00
	BRGZ,SERS				1304.35	42		017577.40
		- MS+ACS+A+1	N+0	F213XB14				
	DL%U□, FPK51-EXPONENT + -6				22070.44	60		017600.00
	E+A I%U□,-7				1700.67	60		017600.40
	CT0110%BU,12□,FK4,116-TEST RESULT EXPONENT + +1				22011.00	80	014072.15 70	017601.00
	SIC,SEN				1310.00	80		017602.00
	BRGZ,SERS				1304.35	42		017602.40
		- MS+ACS+N+1	A+0	F213XB15				
	DL%U□, FPK51-EXPONENT + -6				22070.44	60		017603.00
	E-I%U□,-7				1700.57	60		017603.40
	CT0110%BU,12□,FK4,116-TEST RESULT EXP + +1				22011.00	80	014072.15 70	017604.00
	SIC,SEN				1310.00	80		017605.00
	BRGZ,SERS				1304.35	42		017605.40
		- MS+ACS+N+A+1		F213XB16				
	DL%U□, FPK51-EXPONENT + -6				22070.44	60		017606.00
	E-AI%U□,-250				76500.77	60		017606.40
	CT0110%BU,12□,FK34,116-T*ST RESULT EXP + -256				22204.00	80	014072.15 70	017607.00
	SIC,SEN				1310.00	80		017610.00
	BRGZ,SERS				1304.35	42		017610.40
	BD,\$+1.0				17612.04	00		017611.00
	B,FAE13				17531.10	00		017611.40
	SIC,SEN0+.32				1311.40	80		017612.00
	B,SSW -			SSW	1301.10	00		017612.40
	----F213-XC----		TEST UNCHANGED REGS					
FAE14	Z,\$L		- R 44-63 AND SB 0-7 REM 0 S	F213XC1	10.22	00		017613.00
	Z,\$R				11.22	00		017613.40
	Z,\$SB				12.22	00		017614.00
	E+I%U□,+6				1400.47	60		017614.40
	CT0101%BU,20□,FK0 -DOES R44-63 REMAIN+0-S				22005.00	80	024000.13 70	017615.00
	SIC,SEN				1310.00	80		017616.00
	BRGZ,SERS				1304.35	42		017616.40
	CT0011%BU,8□,10.0 -DOES SB0-7 REMAIN+0-S				12.00	80	010000.07 70	017617.00
	SIC,SEN				1310.00	80		017620.00
	BRGZ,SERS				1304.35	42		017620.40
		- R 44-63 AND SB 0-7 REM 1 S		F213XC2				
	C1111%BU,64□,FK1,64				22006.00	80	000040.36 70	017621.00
	C1111%BU,64□,FK1				22006.00	80	000000.36 70	017622.00
	CM1111%BU,8□,10.0				12.00	80	010000.36 F0	017623.00
	E+I%U□,+7				1600.47	60		017624.00
	CT1010%BU,20□,FK1 -DOES R44-63 REMAIN+1-S				22006.00	80	024000.25 70	017624.40
	SIC,SEN				1310.00	80		017625.40
	BRGZ,SERS				1304.35	42		017626.00
	CT1100%BU,8□,10.0 -DOES SB0-7REMAIN+1-S				12.00	80	010000.31 70	017626.40
	BD,\$+1.0				17630.44	00		017627.40
	B,FAE14				17613.10	00		017630.00
	SIC,SEN0+.32				1311.40	80		017630.40
	B,SSW -			SSW	1301.10	00		017631.00

18

-MULTIPLY TEST ROUTINE F214
-ARITHMETIC CHECKS F214A

FM1	L%BU,FM		21767.00	80	000000.20	50	017631.40
	ST%BU,DPET13		1437.00	80	000000.20	D0	017632.40
	SIC,RET1		1306.40	80			017633.40
		B, IDF1	1443.10	00			017634.00
SAP17	B, \$+.32	-ZERO MULTIPLICAND FRACT.	F214A1	17635.10	00		017634.40
	L%U,FK59	-EXPONENT + +1024		22235.40	60		017635.00
	*%U,FK35	-EXP++2047		22205.41	A0		017635.40
	CT0110%BU,12,FK59,116	-CHECK RESULT EXP.++1024		22235.00	80	014072.15 70	017636.00
	SIC,SEN			1310.00	80		017637.00
		BRGZ,SERS		1304.35	42		017637.40
	CT0110%BU,48,FK0+.12,68	-CHECK RESULT FRACT.+0		22005.14	80	060042.15 70	017640.00
	SIC,SEN			1310.00	80		017641.00
		BRGZ,SERS		1304.35	42		017641.40
	B, \$+.32	-NON ZERO MULTIPLICAND FRACT.	F214A2	17642.50	00		017642.00
	L%U,FK59	-EXP++1024		22235.40	60		017642.40
	*%U,FK60	-EXP+-1024		22236.41	A0		017643.00
	CT0110%BU,12,FK59,116	-CHECK RESULT EXP++1024		22235.00	80	014072.15 70	017643.40
	SIC,SEN			1310.00	80		017644.40
		BRGZ,SERS		1304.35	42		017645.00
	CT0110%BU,48,FK15+.12,68	-CHECK RESULT FRACT.		22161.14	80	060042.15 70	017645.40
	SIC,SEN			1310.00	80		017646.40
		BRGZ,SERS		1304.35	42		017647.00
	B, \$+.32	-	F214A3	17650.10	00		017647.40
	L%U,FK61	-EXP+-1024		22237.40	60		017650.00
	*%U,FK80	-EXP++2		22121.41	A0		017650.40
	CT0110%BU,12,FK61,116	-TEST RESULT EXPONENT+-1024		22237.00	80	014072.15 70	017651.00
	SIC,SEN			1310.00	80		017652.00
		BRGZ,SERS		1304.35	42		017652.40
	CT0110%BU,48,FK15+.12,68	-CHECK RESULT FRACTION		22161.14	80	060042.15 70	017653.00
	SIC,SEN			1310.00	80		017654.00
		BRGZ,SERS		1304.35	42		017654.40
	B, \$+.32	-	F214A4	17655.50	00		017655.00
	L%U,FK52	-EXP++2		22071.40	60		017655.40
	*%U,FK80	-EXP++2		22121.41	A0		017656.00
	CT0110%BU,60,FK15,68	-CHECK RESULT FRACT.AND EXP++4		22161.00	80	074042.15 70	017656.40
	SIC,SEN			1310.00	80		017657.40
		BRGZ,SERS		1304.35	42		017658.00
	-TEST NORMALIZATION MODIFIER						
	B, \$+.32	-	F214A5	17661.10	00		017660.40
	L%U,FK62	-EXP++1023		22240.40	60		017661.00
	*%U,FK63	-EXP++1023		22241.01	A0		017661.40
	CT0110%BU,60,FK102,68	- CHECK THAT FRACT NORMALIZED		22307.00	80	074042.15 70	017662.00
	SIC,SEN			1310.00	80		017663.00
		BRGZ,SERS		1304.35	42		017663.40
	B, \$+.32	-TEST NORMALIZATION SUPPRESSED	F214A6	17664.50	00		017664.00
	L%U,FK59	-EXP++1024		22235.40	60		017664.40
	*%U,FK60	-EXP+-1024		22236.01	A0		017665.00
	CT0110%BU,12,FK59,116	-ERROR IF RESULT NORMALIZED		22235.00	80	014072.15 70	017665.40
	SIC,SEN			1310.00	80		017666.40
		BRGZ,SERS		1304.35	42		017667.00
	CT0110%BU,48,FK15+.12,68			22161.14	80	060042.15 70	017667.40
	SIC,SEN			1310.00	80		017670.40
		BRGZ,SERS		1304.35	42		017671.00
	B, \$+1.			17672.50	00		017671.40
		B, SAP17		17634.50	00		017672.00
	SIC,SEN0+.32			1311.40	80		017672.40
		B, SSW		1301.10	00		017673.00

-TESTS OF SIGN AND MODIFIER COMBINATIONS F214B

EQ

-MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS

	B, \$+.32-MS+1 ACS+N+A+0 F214B1	17674.10 00	017673.40
F214B1	L%U□, FPK52	22071.40 60	017674.00
	*%U□, FPK82-SIGN OF FRACT. IS NEGATIVE	22122.41 A0	017674.40
	CT0110%BU, 60□, FK16, 68-TEST RESULT OF MULTIPLICATION	22162.00 80 074042.15 70	017675.00
	SIC, SEN	1310.00 80	017676.00
	BRGZ, SERS	1304.35 42	017676.40
	BB, 10.4, POR1-TEST SIGN BIT+1	12.04 80 017701.74 02	017677.00
	SIC, SEN	1310.00 80	017700.00
	B, SERS	1304.10 00	017700.40
	B, \$+.32-MS+ACS+1, N+A+0 F214B2	17701.50 00	017701.00
POR1	LN%U□, FPK52 -ACC SIGN NEG	22071.50 60	017701.40
	*%U□, FPK82-MEMORY SIGN NEGATIVE	22122.41 A0	017702.00
	CT0110%BU, 60□, FK16, 68-TEST RESULT	22162.00 80 074042.15 70	017702.40
	SIC, SEN	1310.00 80	017703.40
	BRGZ, SERS	1304.35 42	017704.00
	BZB, 10.4, POR2-TEST SIGN BIT+0	12.04 80 017707.34 00	017704.40
	SIC, SEN	1310.00 80	017705.40
	B, SERS	1304.10 00	017706.00
	B, \$+.32-MS+ACS+A+0, N+1 F214B3	17707.10 00	017706.40
POR2	L%U□, FPK52 -ACC SIGN POS	22071.40 60	017707.00
	*N%U□, FPK84-MEMORY SIGN, NEG.	22123.51 A0	017707.40
	CT0110%BU, 60□, FK16, 68	22162.00 80 074042.15 70	017710.00
	SIC, SEN	1310.00 80	017711.00
	BRGZ, SERS	1304.35 42	017711.40
	BB, 10.4, POR3-TEST SIGN BIT+1	12.04 80 017714.74 02	017712.00
	SIC, SEN	1310.00 80	017713.00
	B, SERS	1304.10 00	017713.40
	B, \$+.32-MS+ACS+0, N+A+1 F214B4	17714.50 00	017714.00
POR3	L%U□, FPK52 -ACC SIGN POS	22071.40 60	017714.40
	*N%U□, FPK84-MEM. SIGN, NEG	22123.71 A0	017715.00
	CT0110%BU, 60□, FK16, 68	22162.00 80 074042.15 70	017715.40
	SIC, SEN	1310.00 80	017716.40
	BRGZ, SERS	1304.35 42	017717.00
	BB, 10.4, POR4-TEST SIGN BIT+1	12.04 80 017722.34 02	017717.40
	SIC, SEN	1310.00 80	017720.40
	B, SERS	1304.10 00	017721.00
	B, \$+.32-MS+ACS+N+A+1 F214B5	17722.10 00	017721.40
POR4	LN%U□, FPK52 -ACC SIGN NEG	22071.50 60	017722.00
	*N%U□, FPK82-MEM SIGN, NEG.	22122.71 A0	017722.40
	CT0110%BU, 60□, FK16, 68	22162.00 80 074042.15 70	017723.00
	SIC, SEN	1310.00 80	017724.00
	BRGZ, SERS	1304.35 42	017724.40
	BZB, 10.4, POR5-TEST SIGN BIT+0	12.04 80 017727.34 00	017725.00
	SIC, SEN	1310.00 80	017726.00
	B, SERS	1304.10 00	017726.40
POR5	B, \$+1.	17730.10 00	017727.00
	B, F214B1	17674.10 00	017727.40
	SIC, SEN0+.32	1311.40 80	017730.00
	B, SSW	1301.10 00	017730.40

- TESTS OF UNCHANGED REGISTERS F214C

		- 0 S REMAIN 0	F214C1	
F214C	CM0000%BU, 8□, 10.		12.00 80 010000.00 F0	017731.00
	C0000%BU, 64□, FPK0, 64		22005.00 80 000040.00 70	017732.00
	C0000%BU, 64□, FPK0		22005.00 80 000000.00 70	017733.00
	*%U□, FPK56		22075.41 A0	017734.00
	CT0101%BU, 4□, FPK0, 64-TEST L60-63+0 F214C1A		22005.00 80 004040.13 70	017734.40
	SIC, SEN		1310.00 80	017735.40
	BRGZ, SERS		1304.35 42	017736.00
	CT0101%BU, 64□, FPK0-TEST R+0 F214C1B		22005.00 80 000000.13 70	017736.40
	SIC, SEN		1310.00 80	017737.40
	BRGZ, SERS		1304.35 42	017740.00
	CT0011%BU, 4□, 10.0-TEST SB0-3+0 F214C1C		12.00 80 004000.07 70	017740.40

SIC,SEN		1310.00	80			017741.40
	BRGZ,SERS	1304.35	42			017742.00
CT0011%BU,3,10.5-TEST SB 5-7+0		12.05	80	003000.07	70	017742.40
SIC,SEN		1310.00	80			017743.40
	BRGZ,SERS	1304.35	42			017744.00
B,\$+.32-1 S REMAIN 1 S F214C2		17745.10	00			017744.40
L%BU,FPK1		22006.00	80	000000.20	50	017745.00
CM1111%BU,8,10.0		12.00	80	010000.36	F0	017746.00
C1111%BU,FPK1,64		22006.00	80	000040.36	70	017747.00
*%U,FPK0		22005.41	A0			017750.00
CT1010%BU,4,FPK1,64-TEST L60-63+1 S		22006.00	80	004040.25	70	017750.40
SIC,SEN		1310.00	80			017751.40
	BRGZ,SERS	1304.35	42			017752.00
CT1010%BU,64,FPK1-TEST R +1 S		22006.00	80	000000.25	70	017752.40
SIC,SEN		1310.00	80			017753.40
	BRGZ,SERS	1304.35	42			017754.00
CT1100%BU,4,10.0-TEST SB 0-3+1 S		12.00	80	004000.31	70	017754.40
SIC,SEN		1310.00	80			017755.40
	BRGZ,SERS	1304.35	42			017756.00
CT1100%BU,3,10.5-TEST SB5-7+1 S		12.05	80	003000.31	70	017756.40
SIC,SEN		1310.00	80			017757.40
	BRGZ,SERS	1304.35	42			017760.00
B,\$+1.		17761.50	00			017760.40
	B,F214C	17731.10	00			017761.00
SIC,SEN0+.32		1311.40	80			017761.40
	B,SSW	1301.10	00			017762.00

- INDICATOR TESTS F214D

SAP17C	L%U,FK59	- TEST XFPF OFF TO ON	F214D1	22235.40	60	017762.40
	Z,SIND			13.22	00	017763.00
	*%U,FK35			22205.41	A0	017763.40
	BB,11.28,\$+2.-ERROR IF XFPF OFF AND,			13.34	80	017766.34 02
	SIC,SEN			1310.00	80	017765.00
	B,SERS-OTHER EXPONENT INDS. ON			1304.10	00	017765.40
	BZB,11.29,\$+2.			13.35	80	017770.34 00
	SIC,SEN			1310.00	80	017767.00
	B,SERS			1304.10	00	017767.40
	BZB,11.30,\$+2.			13.36	80	017772.34 00
	SIC,SEN			1310.00	80	017771.00
	B,SERS			1304.10	00	017771.40
	BZB,11.31,\$+2.			13.37	80	017774.34 00
	SIC,SEN			1310.00	80	017773.00
	B,SERS			1304.10	00	017773.40
	BZB,11.32,\$+2.			13.40	80	017776.34 00
	SIC,SEN			1310.00	80	017775.00
	B,SERS			1304.10	00	017775.40
	BZB,11.33,\$+2.0	- TEST ZM IND OFF.		13.41	80	020000.34 00
	SIC,SEN			1310.00	80	017777.00
	B,SERS			1304.10	00	017777.40
	B,\$+.32	-TEST XPO,OFF TO ON	F214D2	20000.50	00	020000.00
	L%U,FK62			22240.40	60	020000.40
	Z,SIND			13.22	00	020001.00
	*%U,FK63			22241.41	A0	020001.40
	BB,11.29,\$+2.-ERROR IF XPO OFF AND,			13.35	80	020004.34 02
	SIC,SEN			1310.00	80	020003.00
	B,SERS-OTHER EXPONENT INDS. ON			1304.10	00	020003.40
	BZB,11.28,\$+2.			13.34	80	020006.34 00
	SIC,SEN			1310.00	80	020005.00
	B,SERS			1304.10	00	020005.40
	BZB,11.30,\$+2.			13.36	80	020010.34 00
	SIC,SEN			1310.00	80	020007.00
	B,SERS			1304.10	00	020007.40
	BZB,11.31,\$+2.			13.37	80	020012.34 00
	SIC,SEN			1310.00	80	020011.00
	B,SERS			1304.10	00	020011.40

BZB,11.32,\$+2.		13.40	80	020014.34	00	020012.00
SIC,SEN		1310.00	80			020013.00
B,SERS		1304.10	00			020013.40
BZB,11.33,\$+2.0	- TEST ZM IND OFF	13.41	80	020016.34	00	020014.00
SIC,SEN		1310.00	80			020015.00
B,SERS		1304.10	00			020015.40
B,\$+.32	-TEST XPH,OFF TO ON	20016.50	00	F214D3		020016.00
L%UM,FK22		22170.40	60			020016.40
Z,\$IND		13.22	00			020017.00
*%UM,FK74		22115.41	AO			020017.40
BB,11.30,\$+2.-ERROR IF XPH OFF AND,		13.36	80	020022.34	02	020020.00
SIC,SEN		1310.00	80			020021.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00			020021.40
BZB,11.28,\$+2.		13.34	80	020024.34	00	020022.00
SIC,SEN		1310.00	80			020023.00
B,SERS		1304.10	00			020023.40
BZB,11.29,\$+2.		13.35	80	020026.34	00	020024.00
SIC,SEN		1310.00	80			020025.00
B,SERS		1304.10	00			020025.40
BZB,11.31,\$+2.		13.37	80	020030.34	00	020026.00
SIC,SEN		1310.00	80			020027.00
B,SERS		1304.10	00			020027.40
BZB,11.32,\$+2.		13.40	80	020032.34	00	020030.00
SIC,SEN		1310.00	80			020031.00
B,SERS		1304.10	00			020031.40
BZB,11.33,\$+2.0	- TEST ZM IND OFF	13.41	80	020034.34	00	020032.00
SIC,SEN		1310.00	80			020033.00
B,SERS		1304.10	00			020033.40
B,\$+.32	-TEST XPL,OFF TO ON	20034.50	00	F214D4		020034.00
L%UM,FK28		22041.40	60			020034.40
Z,\$IND		13.22	00			020035.00
*%UM,FK42		22057.41	AO			020035.40
BB,11.31,\$+2.-ERROR IF XPL OFF AND,		13.37	80	020040.34	02	020036.00
SIC,SEN		1310.00	80			020037.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00			020037.40
BZB,11.28,\$+2.		13.34	80	020042.34	00	020040.00
SIC,SEN		1310.00	80			020041.00
B,SERS		1304.10	00			020041.40
BZB,11.29,\$+2.		13.35	80	020044.34	00	020042.00
SIC,SEN		1310.00	80			020043.00
B,SERS		1304.10	00			020043.40
BZB,11.30,\$+2.		13.36	80	020046.34	00	020044.00
SIC,SEN		1310.00	80			020045.00
B,SERS		1304.10	00			020045.40
BZB,11.32,\$+2.		13.40	80	020050.34	00	020046.00
SIC,SEN		1310.00	80			020047.00
B,SERS		1304.10	00			020047.40
BZB,11.33,\$+2.0	- TEST ZM IND OFF	13.41	80	020052.34	00	020050.00
SIC,SEN		1310.00	80			020051.00
B,SERS		1304.10	00			020051.40
B,\$+.32	-TEST XPU,OFF TO ON	20052.50	00	F214D5		020052.00
L%UM,FK39		22211.40	60			020052.40
Z,\$IND		13.22	00			020053.00
*%UM,FK3		22145.41	AO			020053.40
BB,11.32,\$+2.-ERROR IF XPU OFF AND,		13.40	80	020056.34	02	020054.00
SIC,SEN		1310.00	80			020055.00
B,SERS-OTHER EXPONENT INDS. ON		1304.10	00			020055.40
BZB,11.28,\$+2.		13.34	80	020060.34	00	020056.00
SIC,SEN		1310.00	80			020057.00
B,SERS		1304.10	00			020057.40
BZB,11.29,\$+2.		13.35	80	020062.34	00	020060.00
SIC,SEN		1310.00	80			020061.00
B,SERS		1304.10	00			020061.40
BZB,11.30,\$+2.		13.36	80	020064.34	00	020062.00
SIC,SEN		1310.00	80			020063.00
B,SERS		1304.10	00			020063.40

BZB,11.31,\$+2.		13.37 80	020066.34 00	020064.00
SIC,SEN		1310.00 80		020065.00
B,SERS		1304.10 00		020065.40
BZB,11.33,\$+2.0	- TEST ZM IND OFF	13.41 80	020070.34 00	020066.00
SIC,SEN		1310.00 80		020067.00
B,SERS		1304.10 00		020067.40
B,\$+.32	-TEST ZM, OFF TO ON	20070.50 00		020070.00
LSUH,FK66		22244.40 60		020070.40
Z,SIND		13.22 00		020071.00
*N,FK91		22274.01 AC		020071.40
BZB,11.28,\$+2.		13.34 80	020074.34 00	020072.00
SIC,SEN		1310.00 80		020073.00
B,SERS		1304.10 00		020073.40
BZB,11.29,\$+2.		13.35 80	020076.34 00	020074.00
SIC,SEN		1310.00 80		020075.00
B,SERS		1304.10 00		020075.40
BZB,11.30,\$+2.		13.36 80	020100.34 00	020076.00
SIC,SEN		1310.00 80		020077.00
B,SERS		1304.10 00		020077.40
BZB,11.31,\$+2.		13.37 80	020102.34 00	020100.00
SIC,SEN		1310.00 80		020101.00
B,SERS		1304.10 00		020101.40
BZB,11.32,\$+2.		13.40 80	020104.34 00	020102.00
SIC,SEN		1310.00 80		020103.00
B,SERS		1304.10 00		020103.40
BB,11.33,\$+2.0	-TEST ZM IND ON	13.41 80	020106.34 02	020104.00
SIC,SEN		1310.00 80		020105.00
B,SERS		1304.10 00		020105.40
BD,\$+1.0		20107.04 00		020106.00
B,SAP17C		17762.50 00		020106.40
SIC,SEN0+.32		1311.40 80		020107.00
B,SSW		1301.10 00		020107.40

3
56
61

51-83

----F214X---MULTIPLY DOUBLE TEST
 ----F214XA---ARITHMETIC CHECKS

FMD1	L%BU, FMD		21770.00	80	000000.20	50	020110.00
	ST%BU, DPET13		1437.00	80	000000.20	D0	020111.00
	SIC, RET1		1306.40	80			020112.00
	B, IDF1		1443.10	00			020112.40
		- EXPONENTS IN XFP RNG				F214XA1	
	L%U, FK36	- EXP ACC + +1024	22206.40	60			020113.00
	D*%U, FK35	-EXP, MEM++2047	22205.45	A0			020113.40
	CT0110%BU, 12, FK59, 116	-TEST RESULT EXP++1024	22235.00	80	014072.15	70	020114.00
	SIC, SEN		1310.00	80			020115.00
	BRGZ, SERS		1304.35	42			020115.40
	CT0110%BU, 48, FK35+, 12, 68	-CHECK RESULT FRACT+0	22205.14	80	060042.15	70	020116.00
	SIC, SEN		1310.00	80			020117.00
	BRGZ, SERS		1304.35	42			020117.40
	CT0110%BU, 48, FK35+, 12, 20		22205.14	80	060012.15	70	020120.00
	SIC, SEN		1310.00	80			020121.00
	BRGZ, SERS		1304.35	42			020121.40
		- EXPONENTS IN N RNG				F214XA2	
	L%U, FPK52	-EXP, ACC++2	22071.40	60			020122.00
	D*%U, FPK53	-EXP, MEM++1	22072.45	A0			020122.40
	CT0110%BU, 12, FPK54, 116	-CHECK RESULT EXP++3	22073.00	80	014072.15	70	020123.00
	SIC, SEN		1310.00	80			020124.00
	BRGZ, SERS		1304.35	42			020124.40
	CT0110%BU, 48, FPK0+, 12, 68	-CHECK HIGH ORDER RESULT FRACT.	22005.14	80	060042.15	70	020125.00
	SIC, SEN		1310.00	80			020126.00
	BRGZ, SERS		1304.35	42			020126.40
	CT0110%BU, 48, FPK54+, 12, 20	-CHECK LOW ORDER RESULT FRACT.	22073.14	80	060012.15	70	020127.00
	SIC, SEN		1310.00	80			020130.00
	BRGZ, SERS		1304.35	42			020130.40
		- EXPONENTS IN XFN RNG				F214XA3	
	L%U, FK61	-EXP, ACC,+ -1024	22237.40	60			020131.00
	D*%U, FK65	-EXP, MEM+-1791	22243.45	A0			020131.40
	CT0110%BU, 12, FK61, 116	-CHECK RESULT EXP+-1024	22237.00	80	014072.15	70	020132.00
	SIC, SEN		1310.00	80			020133.00
	BRGZ, SERS		1304.35	42			020133.40
	CT0110%BU, 48, FPK0+, 12, 68	-CHECK HIGH ORDER FRACT.	22005.14	80	060042.15	70	020134.00
	SIC, SEN		1310.00	80			020135.00
	BRGZ, SERS		1304.35	42			020135.40
	CT0110%BU, 48, FK103+, 12, 20	- CHK LOW ORDER FRACT	22310.14	80	060012.15	70	020136.00
	SIC, SEN		1310.00	80			020137.00
	BRGZ, SERS		1304.35	42			020137.40
	BD, \$+1.0		20141.04	00			020140.00
	B, FMD1		20110.10	00			020140.40
	SIC, SEN0+, 32		1311.40	80			020141.00
	B, SSW -		1301.10	00		SSW	020141.40

----F214 XB---TEST UNCHANGED REGS

- 0 S REM 0 R 44-63 SB 0-3 5-7 F214XB1

F214B	C0011%BU,64,FPK52,64	22071.00	80	000040.06	70	020142.00
	C0000%BU,64,FPK0	22005.00	80	000000.00	70	020143.00
	CM0000%BU,8,10.0	12.00	80	010000.00	F0	020144.00
	D*%U,FPK53	22072.45	A0			020145.00
	CT0101%BU,20,FPK0 -DOES R44-63 REMAIN+0	22005.00	80	024000.13	70	020145.40
	SIC,SEN	1310.00	80			020146.40
	BRGZ,SERS	1304.35	42			020147.00
	CT0011%BU,4,10.0 -DOES SB0-3 REMAIN+0	12.00	80	004000.07	70	020147.40
	SIC,SEN	1310.00	80			020150.40
	BRGZ,SERS	1304.35	42			020151.00
	CT0011%BU,3,10.5 -DOES SB5-7 REMAIN+0	12.05	80	003000.07	70	020151.40
	SIC,SEN	1310.00	80			020152.40
	BRGZ,SERS	1304.35	42			020153.00

- 1 S REM 1 R 44-63 SB 0-3 5-7 F214XB2

	C0011%BU,64,FPK52,64	22071.00	80	000040.06	70	020153.40
	C1111%BU,64,FPK1	22006.00	80	000000.36	70	020154.40
	CM1111%BU,8,10.0	12.00	80	010000.36	F0	020155.40
	D*%U,FPK53	22072.45	A0			020156.40
	CT1010%BU,20,FPK1 -DOES R44-63 REMAIN+1-S	22006.00	80	024000.25	70	020157.00
	SIC,SEN	1310.00	80			020160.00
	BRGZ,SERS	1304.35	42			020160.40
	CT1100%BU,4,10.0 -DOES SB0-3 REMAIN+1-S	12.00	80	004000.31	70	020161.00
	SIC,SEN	1310.00	80			020162.00
	BRGZ,SERS	1304.35	42			020162.40
	CT1100%BU,3,10.5 -DOES SB5-7 REMAIN+1-S	12.05	80	003000.31	70	020163.00
	SIC,SEN	1310.00	80			020164.00
	BRGZ,SERS	1304.35	42			020164.40
	B,S+1.	20166.10	00			020165.00
	B,F214B	20142.10	00			020165.40
	SIC,SEN0+.32	1311.40	80			020166.00
	B,SSW -	1301.10	00			020166.40
	SSW					

----F215 ---LOAD FACTOR TEST
 ----F215A---ARITHMETIC CHECKS

FLF1	L%BU,FLF				21771.00	80	000000.20	50	020167.00
	ST%BU,DPET13				1437.00	80	000000.20	D0	020170.00
	SIC,RET1				1306.40	80			020171.00
		B,IDE1			1443.10	00			020171.40
SAP19	L%BU,FPK0	-		F215A1	22005.00	80	000000.20	50	020172.00
	LFT%U,FPK0				22005.44	A0			020173.00
	CT0110%BU,60,14.0,4-TEST	SFT0-59+0			16.00	80	074002.15	70	020173.40
	SIC,SEN				1310.00	80			020174.40
		BRGZ,SERS			1304.35	42			020175.00
	BZB,14.60,\$+2.0	- TEST SIGN BIT OF SFT+0			16.74	80	020177.74	00	020175.40
	SIC,SEN				1310.00	80			020176.40
		B,SERS			1304.10	00			020177.00
	L%BU,FPK1	-		F215A2	22006.00	80	000000.20	50	020177.40
	LFT%U,FPK1				22006.44	A0			020200.40
	CT0110%BU,60,14.0,4-TEST	SFT0-59+1 S			16.00	80	074002.15	70	020201.00
	SIC,SEN				1310.00	80			020202.00
		BRGZ,SERS			1304.35	42			020202.40
	BB,14.60,\$+2.0	- TEST SIGN BIT OF SFT+1			16.74	80	020205.34	02	020203.00
	SIC,SEN				1310.00	80			020204.00
		B,SERS			1304.10	00			020204.40
	L%BU,FPK1	-		F215A3	22006.00	80	000000.20	50	020205.00
	CM1111%BU,64,14.0				16.00	80	000000.36	F0	020206.00
	LFT%U,14.0				16.44	A0			020207.00
	CT0110%BU,60,14.0,4-TEST	SFT 0-59+1 S			16.00	80	074002.15	70	020207.40
	SIC,SEN				1310.00	80			020210.40
		BRGZ,SERS			1304.35	42			020211.00
	BB,14.60,\$+2.0	- TEST SIGN BIT OF SFT+1			16.74	80	020213.74	02	020211.40
	SIC,SEN				1310.00	80			020212.40
		B,SERS			1304.10	00			020213.00
	BD,\$+1.0				20214.44	00			020213.40
		B,FLF1			20167.10	00			020214.00
	SIC,SEN0+.32				1311.40	80			020214.40
		B,SSW	-	-SSW	1301.10	00			020215.00

----F215B---TEST SIGN + MOD COMBS

-MS+MEM. SIGN, N AND A ARE MODIFIERS

FLF3	LFT%U,FPK1	- MS+1	N+A+0	F215B1	22006.44	A0			020215.40
	BB,14.60,\$+2.0	- TEST SIGN BIT OF SFT+1			16.74	80	020220.34	02	020216.00
	SIC,SEN				1310.00	80			020217.00
		B,SERS			1304.10	00			020217.40
	LFTA%U,FPK1	- MS+A+1	N+0	F215B2	22006.64	A0			020220.00
	BZB,14.60,\$+2.0-	- TEST SIGN BIT OF SFT+0			16.74	80	020222.74	00	020220.40
	SIC,SEN				1310.00	80			020221.40
		B,SERS			1304.10	00			020222.00
	LFTN%U,FPK32	- MS+A+0	N+1	F215B3	22045.54	A0			020222.40
	BB,14.60,\$+2.0	- TEST SIGN BIT OF SFT+1			16.74	80	020225.34	02	020223.00
	SIC,SEN				1310.00	80			020224.00
		B,SERS			1304.10	00			020224.40
	LFTNA%U,FPK32	- MS+0	N+A+1	F215B4	22045.74	A0			020225.00
	BB,14.60,\$+2.0	- TEST SIGN BIT OF SFT+1			16.74	80	020227.74	02	020225.40
	SIC,SEN				1310.00	80			020226.40
		B,SERS			1304.10	00			020227.00
	BD,\$+1.0				20230.44	00			020227.40
		B,FLF3			20215.50	00			020230.00
	SIC,SEN0+.32				1311.40	80			020230.40
		B,SSW	-	-SSW	1301.10	00			020231.00

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----F215C---TEST CHANGED REGS								
FLF4	L%BU, FPK2	-	F215C	22007.00	80	000000.20	50	020231.40
	CM1111%BU, 64, 14.0			16.00	80	000000.36	F0	020232.40
	LFT%U, FPK2			22007.44	A0			020233.40
	CT0110%BU, 3, 14.61-WERE BITS 61-63 OF SFT SET TO ZERO			16.75	80	003000.15	70	020234.00
	SIC, SEN			1310.00	80			020235.00
	BRGZ, SERS			1304.35	42			020235.40

----F215D---TEST UNCHANGED REGS								
- ACC AND \$SB REMAIN UNCHD								
F215D	C1111%BU, FPK1, 64		F215D	22006.00	80	000040.36	70	020236.00
	C1111%BU, 64, FPK1			22006.00	80	000000.36	70	020237.00
	CM1111%BU, 8, 10.0			12.00	80	010000.36	F0	020240.00
	LFT%U, FPK1			22006.44	A0			020241.00
	CT1010%BU, 64, FPK1, 64-DOES L REMAIN+1 S			22006.00	80	000040.25	70	020241.40
	SIC, SEN			1310.00	80			020242.40
	BRGZ, SERS			1304.35	42			020243.00
	CT1010%BU, 64, FPK1-DOES R REMAIN+1 S			22006.00	80	000000.25	70	020243.40
	SIC, SEN			1310.00	80			020244.40
	BRGZ, SERS			1304.35	42			020245.00
	CT1100%BU, 8, 10.0-DOES SB REMAIN+1 S			12.00	80	010000.31	70	020245.40
	SIC, SEN			1310.00	80			020246.40
	BRGZ, SERS			1304.35	42			020247.00
	BD, \$+1.0			20250.44	00			020247.40
	B, FLF4			20231.50	00			020250.00
	SIC, SEN0+.32			1311.40	80			020250.40
	B, SSW	-	-SSW	1301.10	00			020251.00

----F215E---TEST ARITH RESULT INDICATORS								
- RLZ AND RN ON								
FLF5	Z, \$IND		F215E1	13.22	00			020251.40
	LFT%U, FPK1			22006.44	A0			020252.00
	SIC, SEN			1310.00	80			020252.40
	BZRLZ, SERS-ERROR IF RLZ OFF			1304.34	40			020253.00 ←
	SIC, SEN			1310.00	80			020253.40
	BZRN, SERS-ERROR IF RN OFF			1304.35	C0			020254.00
	SIC, SEN			1310.00	80			020254.40
	BRZ, SERS-ERROR IF RZ ON			1304.34	C2			020255.00
	SIC, SEN			1310.00	80			020255.40
	BRGZ, SERS			1304.35	42			020256.00

- RZ ON								
	Z, \$IND		F215E2	13.22	00			020256.40
	LFT%U, FPK0			22005.44	A0			020257.00
	SIC, SEN			1310.00	80			020257.40
	BZRZ, SERS-ERROR IF RZ OFF			1304.34	C0			020260.00
	SIC, SEN			1310.00	80			020260.40
	BRLZ, SERS-ERROR IF RLZ ON			1304.34	42			020261.00
	SIC, SEN			1310.00	80			020261.40
	BRN, SERS-ERROR IF RN ON			1304.35	C2			020262.00
	SIC, SEN			1310.00	80			020262.40
	BRGZ, SERS			1304.35	42			020263.00

		- RGZ ON	F215E3					
	Z,SIND			13.22	00			020263.40
	LFT%U□,FPK32			22045.44	A0			020264.00
	SIC,SEN			1310.00	80			020264.40
		BZRGZ,SERS-ERROR IF RGZ OFF		1304.35	40			020265.00
	SIC,SEN			1310.00	80			020265.40
		BRLZ,SERS-ERROR IF RLZ ON		1304.34	42			020266.00
	SIC,SEN			1310.00	80			020266.40
		BRN,SERS-ERROR IF RN ON		1304.35	C2			020267.00
	SIC,SEN			1310.00	80			020267.40
		BRZ,SERS		1304.34	C2			020270.00
	BD,\$+1.0			20271.44	00			020270.40
		B,FLF5		20251.50	00			020271.00
	SIC,SEN0+.32			1311.40	80			020271.40
		B,SSW -	SSW	1301.10	00			020272.00
		----F215F---TEST NORM MOD						
		- TEST NORM MOD IGNORED	F215F1					
FLF6	L%BU,64□,FK21			22167.00	80	000000.20	50	020272.40
	LFT%N□,FK21	-EXPONENT IN XFP RANGE		22167.04	A0			020273.40
	CT0110%BU,64□,14.0	-ERROR IF RESULT NORMALIZED		16.00	80	000000.15	70	020274.00
	SIC,SEN			1310.00	80			020275.00
		BRGZ,SERS		1304.35	42			020275.40
		- TEST NORM MOD IGNORED	F215F2					
	L%BU,64□,FK30			22200.00	80	000000.20	50	020276.00
	LFT%N□,FK30	-EXPONENT IN XFN RANGE		22200.04	A0			020277.00
	CT0110%BU,64□,14.0	-ERROR IF RESULT NORMALIZED		16.00	80	000000.15	70	020277.40
	SIC,SEN			1310.00	80			020300.40
		BRGZ,SERS		1304.35	42			020301.00
		- TEST NORMALIZATION	F215F3					
	L%BU,64□,FK9			22016.00	80	000000.20	50	020301.40
	LFT%N□,FK10	-EXPONENT IN N RANGE		22017.04	A0			020302.40
	CT0110%BU,64□,14.0	-ERROR IF RESULT NOT NORMALIZED		16.00	80	000000.15	70	020303.00
	SIC,SEN			1310.00	80			020304.00
		BRGZ,SERS		1304.35	42			020304.40
	BD,\$+1.0			20306.04	00			020305.00
		B,FLF6		20272.50	00			020305.40
	SIC,SEN0+.32			1311.40	80			020306.00
		B,SSW -	SSW	1301.10	00			020306.40

----F216 ---MULTIPLY AND ADD TEST

----F216A---ARITHMETIC CHECKS

FMAA1	L%BU, F216		21772.00	80	000000.20	50	020307.00
	ST%BU, DPET13		1437.00	80	000000.20	D0	020310.00
	SIC, RET1		1306.40	80			020311.00
	B, IDF1		1443.10	00			020311.40
SAP20	DL%U, FK68	- EXP++2047	22246.44	60			020312.00
	C0011%BU, 48, FPK27+.12, 20		22040.14	80	060012.06	70	020312.40
	LFT%U, FK59	-EXP++1024	22235.44	A0			020313.40
	*+%U, FK67	-EXP++1791, ADDS PRODUCT TO ACC.	22245.43	A0			020314.00
	CT0110%BU, 60, FK68, 68	-CHECK RESULT EXP AND HIGH ORDER FRACT	22246.00	80	074042.15	70	020314.40
	SIC, SEN		1310.00	80			020315.40
	BRGZ, SERS		1304.35	42			020316.00
	CT0110%BU, 48, FPK27+.12, 20	-CHECK LOW ORDER FRACT	22040.14	80	060012.15	70	020316.40
	SIC, SEN		1310.00	80			020317.40
	BRGZ, SERS		1304.35	42			020320.00
	DL%U, FK18	- EXP++4	22164.44	60			020320.40
	C0011%BU, 48, FPK27+.12, 20		22040.14	80	060012.06	70	020321.00
	LFT%U, FK61	-EXP+-1024	22237.44	A0			020322.00
	*+%U, FPK80	-EXP++2	22121.43	A0			020322.40
	CT0110%BU, 60, FK18, 68	-CHECK RESULT EXP AND HIGH ORDER FRACT	22164.00	80	074042.15	70	020323.00
	SIC, SEN		1310.00	80			020324.00
	BRGZ, SERS		1304.35	42			020324.40
	CT0110%BU, 48, FPK27+.12, 20	-CHECK LOW ORDER FRACT	22040.14	80	060012.15	70	020325.00
	SIC, SEN		1310.00	80			020326.00
	BRGZ, SERS		1304.35	42			020326.40
	DL%U, FK18	- EXP++4	22164.44	60			020327.00
	C0011%BU, 48, FPK27+.12, 20		22040.14	80	060012.06	70	020327.40
	LFT%U, FPK52	-EXP++2	22071.44	A0			020330.40
	*+%U, FK60	-EXP+-1024	22236.43	A0			020331.00
	CT0110%BU, 60, FK18, 68	-CHECK RESULT EXP AND H O FRACT	22164.00	80	074042.15	70	020331.40
	SIC, SEN		1310.00	80			020332.40
	BRGZ, SERS		1304.35	42			020333.00
	CT0110%BU, 48, FPK27+.12, 20	-CHECK LOW ORDER FRACT	22040.14	80	060012.15	70	020333.40
	SIC, SEN		1310.00	80			020334.40
	BRGZ, SERS		1304.35	42			020335.00
	DL%U, FK18	- EXP++4	22164.44	60			020335.40
	C0011%BU, 48, FPK27+.12, 20		22040.14	80	060012.06	70	020336.00
	LFT%U, FK61	-EXP+-1024	22237.44	A0			020337.00
	*+%U, FK67	-EXP++1791	22245.43	A0			020337.40
	CT0110%BU, 12, FK67, 116	-CHECK RESULT EXP++1791	22245.00	80	014072.15	70	020340.00
	SIC, SEN		1310.00	80			020341.00
	BRGZ, SERS		1304.35	42			020341.40
	CT0110%BU, 48, FK16+.12, 68	-CHECK HIGH ORDER FRACT	22162.14	80	060042.15	70	020342.00
	SIC, SEN		1310.00	80			020343.00
	BRGZ, SERS		1304.35	42			020343.40
	CT0110%BU, 48, FK67+.12, 20	-CHECK LOW ORDER FRACT	22245.14	80	060012.15	70	020344.00
	SIC, SEN		1310.00	80			020345.00
	BRGZ, SERS		1304.35	42			020345.40

DL%U□,FK69	- EXP+-2047	F216A5	22247.44	60		020346.00
C0011%BU,48□,FK27+.12,20			22040.14	80	060012.06 70	020346.40
LFT%U□,FK59	-EXP++1024		22235.44	A0		020347.40
*+%U□,FK80	-EXP++2		22121.43	A0		020350.00
CT0110%BU,12□,FK36,116	- CHECK RESULT EXP+ +1026		22206.00	80	014072.15 70	020350.40
SIC,SEN			1310.00	80		020351.40
	BRGZ,SERS		1304.35	42		020352.00
CT0110%BU,48□,FK16+.12,68	-CHECK HIGH ORDER FRACT		22162.14	80	060042.15 70	020352.40
SIC,SEN			1310.00	80		020353.40
	BRGZ,SERS		1304.35	42		020354.00
CT0110%BU,48□,FK67+.12,20	-CHECK LOW ORDER FRACT		22245.14	80	060012.15 70	020354.40
SIC,SEN			1310.00	80		020355.40
	BRGZ,SERS		1304.35	42		020356.00
DL%U□,FK18	- EXP++4 ✓	F216A6	22164.44	60		020356.40
C0011%BU,48□,FK27+.12,20			22040.14	80	060012.06 70	020357.00 <i>Res</i>
LFT%U□,FK52	-EXP++2 ✓		22071.44	A0		020360.00
*+%U□,FK80	-EXP++2 ✓		22121.43	A0		020360.40
CT0110%BU,12□,FK18,116	-TEST RESULT EXP++4		22164.00	80	014072.15 70	020361.00
SIC,SEN			1310.00	80		020362.00
	BRGZ,SERS		1304.35	42		020362.40
CT0110%BU,48□,FK32+.12,68	-TEST HIGH ORDER FRACT+1-S		22045.14	80	060042.15 70	020363.00
SIC,SEN			1310.00	80		020364.00
	BRGZ,SERS		1304.35	42		020364.40
CT0110%BU,48□,FK32+.12,20	-TEST LOW ORDER FRACT+1-S		22045.14	80	060012.15 70	020365.00
SIC,SEN			1310.00	80		020366.00
	BRGZ,SERS		1304.35	42		020366.40
BD,s+1.0			20370.04	00		020367.00
	B,FMAA1		20307.10	00		020367.40
SIC,SEN0+.32			1311.40	80		020370.00
	B,SSW		1301.10	00		020370.40

-TESTS OF SIGN AND MODIFIER COMBINATIONS F216B
 -MS+MEM,SIGN,ACS+ACC. SIGN, N AND A ARE MODIFIERS

F216B1	DL%U□, FPK60	- MS+ACS+N+A+0	F216B1	22101.44	60		020371.00
	LFT%U□, FPK52			22071.44	A0		020371.40
	*+%U□, FPK80			22121.43	A0		020372.00
	BZB, 10.4, \$+2.0	- TEST SIGN BIT + 0		12.04	80	020374.74	00
	SIC, SEN			1310.00	80		020372.40
	B, SERS			1304.10	00		020374.00
	DL%U□, FPK60	- MS+ACS+N+0 A+1	F216B2	22101.44	60		020374.40
	LFT%U□, FPK52			22071.44	A0		020375.00
	*A+%U□, FPK80			22121.63	A0		020375.40
	BZB, 10.4, \$+2.0	- TEST SIGN BIT + 0		12.04	80	020400.34	00
	SIC, SEN			1310.00	80		020377.00
	B, SERS			1304.10	00		020377.40
	DL%U□, FPK62	- MS+ACS+A+0 N+1	F216B3	22103.44	60		020400.00
	LFT%U□, FPK52			22071.44	A0		020400.40
	*N+%U□, FPK80			22121.53	A0		020401.00
	BZB, 10.4, \$+2.0	- TEST SIGN BIT + 0		12.04	80	020403.74	00
	SIC, SEN			1310.00	80		020401.40
	B, SERS			1304.10	00		020402.40
	DL%U□, FPK62	- MS+ACS+0 N+A+1	F216B4	22103.44	60		020403.00
	LFT%U□, FPK52			22071.44	A0		020403.40
	*NA+%U□, FPK80			22121.73	A0		020404.00
	BZB, 10.4, \$+2.0	- TEST SIGN BIT + 0		12.04	80	020407.34	00
	SIC, SEN			1310.00	80		020405.00
	B, SERS			1304.10	00		020406.00
	DLN%U□, FPK62	- MS+N+A+0 ACS+1	F216B5	22103.54	60		020406.40
	LFT%U□, FPK52			22071.44	A0		020407.00
	*+%U□, FPK80			22121.43	A0		020407.40
	BB, 10.4, \$+2.0	- TEST SIGN BIT + 1		12.04	80	020412.74	02
	SIC, SEN			1310.00	80		020410.40
	B, SERS			1304.10	00		020411.40
	DLN%U□, FPK62	- MS+N+0 ACS+A+1	F216B6	22103.54	60		020412.00
	LFT%U□, FPK52			22071.44	A0		020412.40
	*A+%U□, FPK80			22121.63	A0		020413.00
	BB, 10.4, \$+2.0	- TEST SIGN BIT + 1		12.04	80	020416.34	02
	SIC, SEN			1310.00	80		020413.40
	B, SERS			1304.10	00		020415.00
	DLN%U□, FPK62	- MS+A+0 ACS+N+1	F216B7	22103.54	60		020415.40
	LFT%U□, FPK52			22071.44	A0		020416.00
	*N+%U□, FPK80	- PRODUCES LOST CARRY		22121.53	A0		020416.40
	SIC, SEN			1310.00	80		020417.00
	BZLC, SERS			1304.13	40		020417.40
	BB, 10.4, \$+2.0	- TEST SIGN BIT + 1		12.04	80	020422.74	02
	SIC, SEN			1310.00	80		020420.00
	B, SERS			1304.10	00		020420.40
	DLN%U□, FPK62	- MS+0 ACS+N+A+1	F216B8	22103.54	60		020422.00
	LFT%U□, FPK52			22071.44	A0		020422.40
	*NA+%U□, FPK80			22121.73	A0		020423.00
	BB, 10.4, \$+2.0	- TEST SIGN BIT + 1		12.04	80	020426.34	02
	SIC, SEN			1310.00	80		020423.40
	B, SERS			1304.10	00		020425.00
	DL%U□, FPK62	- MS+1 ACS+N+A+0	F216B9	22103.44	60		020425.40
	LFT%U□, FPK52			22071.44	A0		020426.00
	*+%U□, FPK86			22124.43	A0		020426.40
	BZB, 10.4, \$+2.0	- TEST SIGN BIT + 0		12.04	80	020431.74	00
	SIC, SEN			1310.00	80		020427.00
	B, SERS			1304.10	00		020427.40
F216B2	DL%U□, FPK62	- MS+A+1 ACS+N+0	F216B10	22103.44	60		020430.40
	LFT%U□, FPK52			22071.44	A0		020431.00
	*A+%U□, FPK86			22124.63	A0		020431.40

BZB,10.4,\$+2.0	- TEST SIGN BIT + 0		12.04	80	020435.34	00	020433.00
SIC,SEN			1310.00	80			020434.00
	B,SERS		1304.10	00			020434.40
DL%U#,FPK62	- MS+N+1 ACS+A+0	F216B11	22103.44	60			020435.00
LFT%U#,FPK52			22071.44	A0			020435.40
*N+%U#,FPK86			22124.53	A0			020436.00
BZB,10.4,\$+2.0	- TEST SIGN BIT + 0		12.04	80	020440.74	00	020436.40
SIC,SEN			1310.00	80			020437.40
	B,SERS		1304.10	00			020440.00
DL%U#,FPK62	-M S+N+A+1 ACS+0	F216B12	22103.44	60			020440.40
LFT%U#,FPK52			22071.44	A0			020441.00
*NA+%U#,FPK86			22124.73	A0			020441.40
BZB,10.4,\$+2.0	- TEST SIGN BIT + 0		12.04	80	020444.34	00	020442.00
SIC,SEN			1310.00	80			020443.00
	B,SERS		1304.10	00			020443.40
DLN%U#,FPK62	- MS+ACS+1 N+A+0	F216B13	22103.54	60			020444.00
LFT%U#,FPK52			22071.44	A0			020444.40
*+%U#,FPK86			22124.43	A0			020445.00
BB,10.4,\$+2.0	- TEST SIGN BIT + 1		12.04	80	020447.74	02	020445.40
SIC,SEN			1310.00	80			020446.40
	B,SERS		1304.10	00			020447.00
DLN%U#,FPK62	- MS+ACS+A+1 N+0	F216B14	22103.54	60			020447.40
LFT%U#,FPK52			22071.44	A0			020450.00
*A+%U#,FPK86			22124.63	A0			020450.40
BB,10.4,\$+2.0	- TEST SIGN BIT + 1		12.04	80	020453.34	02	020451.00
SIC,SEN			1310.00	80			020452.00
	B,SERS		1304.10	00			020452.40
DLN%U#,FPK62	- MS+ACS+N+1 A+0	F216B15	22103.54	60			020453.00
LFT%U#,FPK52			22071.44	A0			020453.40
*N+%U#,FPK86			22124.53	A0			020454.00
BB,10.4,\$+2.0	- TEST SIGN BIT + 1		12.04	80	020456.74	02	020454.40
SIC,SEN			1310.00	80			020455.40
	B,SERS		1304.10	00			020456.00
DLN%U#,FPK62	- MS+ACS+N+A+1	F216B16	22103.54	60			020456.40
LFT%U#,FPK52			22071.44	A0			020457.00
*NA+%U#,FPK86			22124.73	A0			020457.40
BB,10.4,\$+2.0	- TEST SIGN BIT + 1		12.04	80	020462.34	02	020460.00
SIC,SEN			1310.00	80			020461.00
	B,SERS		1304.10	00			020461.40
BD,\$+1.0			20463.04	00			020462.00
	B,F216B1		20371.10	00			020462.40
SIC,SEN0+.32			1311.40	80			020463.00
	B,SSW		1301.10	00			020463.40

-TEST OF UNCHANGED REGISTERS F216C

F216C	Description	F216C1	Value	Unit	Code	Value	Unit	Code
	L%BU, FPK0 - CS REMAIN CS	22005.00	80	000000.20	50	020464.00		
	CM0000%BU, 8, 10.0	12.00	80	010000.00	F0	020465.00		
	LFT%U, FPK52	22071.44	A0			020466.00		
	*+%U, FPK80	22121.43	A0			020466.40		
	CT0101%BU, 20, FPK0-DOES R44-63 REMAIN+0 S F216C1A	22005.00	80	024000.13	70	020467.00		
	SIC, SEN	1310.00	80			020470.00		
	BRGZ, SERS	1304.35	42			020470.40		
	CT0011%BU, 4, 10.0-DOES SBC-3, 5-7 REMAIN+0 S F216C1B	12.00	80	004000.07	70	020471.00		
	SIC, SEN	1310.00	80			020472.00		
	BRGZ, SERS	1304.35	42			020472.40		
	CT0011%BU, 3, 10.5	12.05	80	003000.07	70	020473.00		
	SIC, SEN	1310.00	80			020474.00		
	BRGZ, SERS	1304.35	42			020474.40		
	L%BU, FPK1 - 1 S REMAIN 1 S	22006.00	80	000000.20	50	020475.00		
	C1111%BU, 64, FPK1, 64	22006.00	80	000040.36	70	020476.00		
	DL%U, FPK62	22103.44	60			020477.00		
	CM1111%BU, 8, 10.0	12.00	80	010000.36	F0	020477.40		
	LFT%U, FPK52	22071.44	A0			020500.40		
	*+%U, FPK80	22121.43	A0			020501.00		
	CT1010%BU, 20, FPK1-DOES R44-63 REMAIN+1 S F216C2A	22006.00	80	024000.25	70	020501.40		
	SIC, SEN	1310.00	80			020502.40		
	BRGZ, SERS	1304.35	42			020503.00		
	CT1100%BU, 4, 10.0-DOES R0-3, 5-7 REMAIN+1 S F216C2B	12.00	80	004000.31	70	020503.40		
	SIC, SEN	1310.00	80			020504.40		
	BRGZ, SERS	1304.35	42			020505.00		
	CT1100%BU, 3, 10.5	12.05	80	003000.31	70	020505.40		
	SIC, SEN	1310.00	80			020506.40		
	BRGZ, SERS	1304.35	42			020507.00		
	B, \$+1.	20510.50	00			020507.40		
	B, F216C	20464.10	00			020510.00		
	SIC, SEN0+.32	1311.40	80			020510.40		
	B, SSW	1301.10	00			020511.00		

-INDICATOR TESTS -TEST PSH, OFF TO ON

F216D

F216D	Description	F216D1	Value	Unit	Code	Value	Unit	Code
	BPSHZ, \$+.32	20512.15	C6			020511.40		
	DL%U, FK4	22146.44	60			020512.00		
	CO011%BU, 48, FK4+.12, 20	22146.14	80	060012.06	70	020512.40		
	LFT%U, FPK52	22071.44	A0			020513.40		
	*+%U, FPK80 -ADD SHIFT GREATER THAN 48	22121.43	A0			020514.00		
	SIC, SEN	1310.00	80			020514.40		
	BZPSH, SERS -ERROR IF PSH NOT ON	1304.15	C0			020515.00		

-EXPONENT RANGE INDICATORS

Description	F216D2	Value	Unit	Code	Value	Unit	Code
DL%U, FK18 - TEST XPFP OFF TO ON	22164.44	60			020515.40		
LFT%U, FK59	22235.44	A0			020516.00		
Z, \$IND	13.22	00			020516.40		
*+%U, FPK80 -RESULT EXP++1024	22121.43	A0			020517.00		
BB, 11.28, \$+2.-ERROR IF XPFP OFF AND,	13.34	80	020521.74	02	020517.40		
SIC, SEN	1310.00	80			020520.40		
B, SERS	1304.10	00			020521.00		
BZB, 11.29, \$+2.	13.35	80	020523.74	00	020521.40		
SIC, SEN	1310.00	80			020522.40		
B, SERS	1304.10	00			020523.00		
BZB, 11.30, \$+2.	13.36	80	020525.74	00	020523.40		
SIC, SEN	1310.00	80			020524.40		
B, SERS	1304.10	00			020525.00		
BZB, 11.31, \$+2.	13.37	80	020527.74	00	020525.40		
SIC, SEN	1310.00	80			020526.40		
B, SERS	1304.10	00			020527.00		

BZB,11.32,\$+2.					13.40	80	020531.74	00	020527.40
SIC,SEN					1310.00	80			020530.40
B,SERS					1304.10	00			020531.00
DL%U#,FK38	- TEST XPO	OFF TO ON	F216D3		22210.44	60			020531.40
LFT%U#,FK7C					22250.44	A0			020532.00
Z,\$IND					13.22	00			020532.40
*+%N#,FK84	-RESULT EXP++1024				22123.03	A0			020533.00
BB,11.29,\$+2.	-ERROR IF XPO OFF AND,				13.35	80	020535.74	02	020533.40
SIC,SEN					1310.00	80			020534.40
B,SERS-OTHER EXPONENT INDS. ON					1304.10	00			020535.00
BZB,11.28,\$+2.					13.34	80	020537.74	00	020535.40
SIC,SEN					1310.00	80			020536.40
B,SERS					1304.10	00			020537.00
BZB,11.30,\$+2.					13.36	80	020541.74	00	020537.40
SIC,SEN					1310.00	80			020540.40
B,SERS					1304.10	00			020541.00
BZB,11.31,\$+2.					13.37	80	020543.74	00	020541.40
SIC,SEN					1310.00	80			020542.40
B,SERS					1304.10	00			020543.00
BZB,11.32,\$+2.					13.40	80	020545.74	00	020543.40
SIC,SEN					1310.00	80			020544.40
B,SERS					1304.10	00			020545.00
DL%U#,FK39	- TEST XPH	OFF TO ON	F216D4		22211.44	60			020545.40
LFT%U#,FK28					22041.44	A0			020546.00
Z,\$IND					13.22	00			020546.40
*+%U#,FK28	-RESULT EXP++512				22041.43	A0	net		020547.00
BB,11.30,\$+2.	-ERROR IF XPH OFF AND,				13.36	80	020551.74	02	020547.40
SIC,SEN					1310.00	80			020550.40
B,SERS-OTHER EXPONENT INDS. ON					1304.10	00			020551.00
BZB,11.28,\$+2.					13.34	80	020553.74	00	020551.40
SIC,SEN					1310.00	80			020552.40
B,SERS					1304.10	00			020553.00
BZB,11.29,\$+2.					13.35	80	020555.74	00	020553.40
SIC,SEN					1310.00	80			020554.40
B,SERS					1304.10	00			020555.00
BZB,11.31,\$+2.					13.37	80	020557.74	00	020555.40
SIC,SEN					1310.00	80			020556.40
B,SERS					1304.10	00			020557.00
BZB,11.32,\$+2.					13.40	80	020561.74	00	020557.40
SIC,SEN					1310.00	80			020560.40
B,SERS					1304.10	00			020561.00
F216D5 DL%U#,FK28	- TEST XPL	OFF TO ON	F216D5		22041.44	60			020561.40
LFT%U#,FK61					22237.44	A0			020562.00
Z,\$IND					13.22	00			020562.40
*+%U#,FK60	-RESULT EXP++256				22236.43	A0			020563.00
BB,11.31,\$+2.	-ERROR IF XPL OFF AND,				13.37	80	020565.74	02	020563.40
SIC,SEN					1310.00	80			020564.40
B,SERS-OTHER EXPONENT INDS. ON					1304.10	00			020565.00
BZB,11.28,\$+2.					13.34	80	020567.74	00	020565.40
SIC,SEN					1310.00	80			020566.40
B,SERS					1304.10	00			020567.00
BZB,11.29,\$+2.					13.35	80	020571.74	00	020567.40
SIC,SEN					1310.00	80			020570.40
B,SERS					1304.10	00			020571.00
BZB,11.30,\$+2.					13.36	80	020573.74	00	020571.40
SIC,SEN					1310.00	80			020572.40
B,SERS					1304.10	00			020573.00
BZB,11.32,\$+2.					13.40	80	020575.74	00	020573.40
SIC,SEN					1310.00	80			020574.40
B,SERS					1304.10	00			020575.00
DL%U#,FK39	- TEST XPU IND	OFF TO ON	F216D6		22211.44	60			020575.40
LFT%U#,FK72					22252.44	A0			020576.00
Z,\$IND					13.22	00			020576.40
*+%N#,FK73	-RESULT EXP+-1025				22253.03	A0			020577.00
BB,11.32,\$+2.	-ERROR IF XPU OFF AND,				13.40	80	020601.74	02	020577.40
SIC,SEN					1310.00	80			020600.40

B,SERS-OTHER EXPONENT INDS. ON				
BZB,11.28,\$+2.			1304.10 00	020601.00
SIC,SEN			13.34 80	020603.74 00
	B,SERS		1310.00 80	020602.40
BZB,11.29,\$+2.			1304.10 00	020603.00
SIC,SEN			13.35 80	020605.74 00
	B,SERS		1310.00 80	020604.40
BZB,11.30,\$+2.			1304.10 00	020605.00
SIC,SEN			13.36 80	020607.74 00
	B,SERS		1310.00 80	020606.40
BZB,11.31,\$+2.			1304.10 00	020607.00
SIC,SEN			13.37 80	020611.74 00
	B,SERS		1310.00 80	020610.40
DL%U# ,FK49		- TEST ALL EXP INDS OFF	1304.10 00	020611.00
LFT%U# ,FK61		F216D7	22223.44 60	020611.40
Z,\$IND			22237.44 A0	020612.00
*+%U# ,FK80		-EXP+-1024	13.22 00	020612.40
BZB,11.28,\$+2.			22121.43 A0	020613.00
SIC,SEN			13.34 80	020615.74 00
	B,SERS		1310.00 80	020614.40
BZB,11.29,\$+2.			1304.10 00	020615.00
SIC,SEN			13.35 80	020617.74 00
	B,SERS		1310.00 80	020616.40
BZB,11.30,\$+2.			1304.10 00	020617.00
SIC,SEN			13.36 80	020621.74 00
	B,SERS		1310.00 80	020620.40
BZB,11.31,\$+2.			1304.10 00	020621.00
SIC,SEN			13.37 80	020623.74 00
	B,SERS		1310.00 80	020622.40
BZB,11.32,\$+2.			1304.10 00	020623.00
SIC,SEN			13.40 80	020625.74 00
	B,SERS		1310.00 80	020624.40
B,\$+1.			1304.10 00	020625.00
	B,F216D		20626.50 00	020625.40
SIC,SEN0+.32			20511.50 00	020626.00
	B,SSW		1311.40 80	020626.40
		SSW	1301.10 00	020627.00

-DIVIDE TEST ROUTINE		F217					
-ARITHMETIC CHECKS		F217A					
FD1	L%BU, F217		21773.00	80	000000.20	50	020627.40
	ST%BU, DPET13		1437.00	80	000000.20	DC	020630.40
	SIC, RET1		1306.40	80			020631.40
	B, IDF1		1443.10	00			020632.00
SAP21	L%U, FK83 - EXPS OF OPNDS IN XFP RNG	F217A1	22264.40	60			020632.40 ←
	/%U, FK59		22235.41	E0			020633.00
	CT0110%BU, 60, FK84, 68		22265.00	80	074042.15	70	020633.40
	SIC, SEN		1310.00	80			020634.40
	BRGZ, SERS		1304.35	42			020635.00
	L%U, FPK52 - EXP++2	F217A2	22071.40	60			020635.40
	/%U, FK85 -EXP++1024		22266.41	E0			020636.00
	CT0110%BU, 60, FK60, 68		22236.00	80	074042.15	70	020636.40
	SIC, SEN		1310.00	80			020637.40
	BRGZ, SERS		1304.35	42			020640.00
	L%U, FK86 - EXP+-1791	F217A3	22267.40	60			020640.40
	/%U, FK59 -EXP++1024		22235.41	E0			020641.00
	CT0110%BU, 60, FK60, 68		22236.00	80	074042.15	70	020641.40
	SIC, SEN		1310.00	80			020642.40
	BRGZ, SERS		1304.35	42			020643.00
	L%U, FPK64 - EXPONENTS IN N RNG	F217A4	22104.40	60			020643.40
	/%U, FPK52		22071.41	E0			020644.00
	CT0110%BU, 60, FPK80, 68 -CHECK RESULT EXP++2 AND,		22121.00	80	074042.15	70	020644.40
	SIC, SEN		1310.00	80			020645.40
	BRGZ, SERS		1304.35	42			020646.00
	L%U, FPK52 -	F217A5	22071.40	60			020646.40
	/%U, FPK64		22104.41	E0			020647.00
	CT0110%BU, 60, FK87, 68 -CHECK RESULT EXP++0 AND,		22270.00	80	074042.15	70	020647.40
	SIC, SEN		1310.00	80			020650.40
	BRGZ, SERS		1304.35	42			020651.00
	L%U, FK86 - EXP+-1791	F217A6	22267.40	60			020651.40
	/%U, FPK52 -EXP++2		22071.41	E0			020652.00
	CT0110%BU, 60, FK100, 68		22305.00	80	074042.15	70	020652.40
	SIC, SEN		1310.00	80			020653.40
	BRGZ, SERS		1304.35	42			020654.00
	L%U, FK88 - EXP+-1791	F217A7	22271.40	60			020654.40
	/%U, FK89 -EXP+-1024		22272.41	E0			020655.00
	CT0110%BU, 60, FK90, 68 -CHECK RESULT EXP++1024 AND,		22273.00	80	074042.15	70	020655.40
	SIC, SEN		1310.00	80			020656.40
	BRGZ, SERS		1304.35	42			020657.00
	L%U, FPK52 - ZERO DIVISOR	F217A8	22071.40	60			020657.40
	/%U, FPK29		22042.41	E0			020660.00
	CT0110%BU, 12, FPK52, 116		22071.00	80	014072.15	70	020660.40
	SIC, SEN		1310.00	80			020661.40
	BRGZ, SERS		1304.35	42			020662.00
	CT0110%BU, 48, FPK52+.12, 68 -CHECK DIVIDEND FRACTION		22071.14	80	060042.15	70	020662.40
	SIC, SEN		1310.00	80			020663.40
	BRGZ, SERS		1304.35	42			020664.00
	BD, \$+1.0		20665.44	00			020664.40
	B, FD1		20627.50	00			020665.00
	SIC, SEN0+.32		1311.40	80			020665.40
	B, SSW -	SSW	1301.10	00			020666.00

-TESTS OF SIGN AND MODIFIER COMBINATIONS F217B
 -MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS

		- MS+N+A+0	ACS+1	F217B1			
F217B	LN%U□, FPK64				22104.50	60	020666.40
	/%U□, FPK52				22071.41	E0	020667.00
	BB, 10.04, \$+2.0	- TEST SIGN BIT + 1			12.04	80	020671.74 02
	SIC, SEN				1310.00	80	020670.40
	B, SERS				1304.10	00	020671.00
		- MS+1	ACS+N+A+0	F217B2			
ROD1	L%U□, FPK64				22104.40	60	020671.40
	/%U□, FPK55				22074.41	E0	020672.00
	BB, 10.04, \$+2.0	- TEST SIGN BIT + 1			12.04	80	020674.74 02
	SIC, SEN				1310.00	80	020673.40
	B, SERS				1304.10	00	020674.00
	B, \$+.32-MS+ACS+1, N+A+0			F217B3	20675.10	00	020674.40
ROD2	LN%U□, FPK64				22104.50	60	020675.00
	/%U□, FPK55				22074.41	E0	020675.40
	BZB, 10.04, \$+2.0	- TEST SIGN BIT+0			12.04	80	020700.34 00
	SIC, SEN				1310.00	80	020677.00
	B, SERS				1304.10	00	020677.40
	B, \$+.32-MS+ACS+N+A+1			F217B4	20700.50	00	020700.00
ROD3	LN%U□, FPK64				22104.50	60	020700.40
	/NA%U□, FPK55				22074.71	E0	020701.00
	BZB, 10.4, \$+2.0	- TEST SIGN BIT + 0			12.04	80	020703.74 00
	SIC, SEN				1310.00	80	020702.40
	B, SERS				1304.10	00	020703.00

				F217C			
	C1111%BU□, FPK1, 64	-			22006.00	80	000040.36 70
	C1111%BU, 64□, FPK1				22006.00	80	000000.36 70
	CM1111%BU, 8□, 10.0				12.00	80	010000.36 F0
	/%U□, FPK1				22006.41	E0	020706.40
	CT1010%BU, 64□, FPK1-DOES R REMAIN+1 S				22006.00	80	000000.25 70
	SIC, SEN				1310.00	80	020710.00
	BRGZ, SERS				1304.35	42	020710.40
	CT1100%BU, 4□, 10.0-DOES SB0-3 REMAIN+1 S				12.00	80	004000.31 70
	SIC, SEN				1310.00	80	020712.00
	BRGZ, SERS				1304.35	42	020712.40
	CT1100%BU, 3□, 10.5-DOES SB5-7 REMAIN+1 S				12.05	80	003000.31 70
	SIC, SEN				1310.00	80	020714.00
	BRGZ, SERS				1304.35	42	020714.40
	B, \$+1.				20716.10	00	020715.00
	B, F217B				20666.50	00	020715.40
	SIC, SEN0+.32				1311.40	80	020716.00
	B, SSW	-		SSW	1301.10	00	020716.40

-TESTS OF INDICATORS

- ZERO DIVISOR

F217D
F217D1

FD5	L%U□, FPK52		22071.40	60			020717.00
	Z, \$IND		13.22	00			020717.40
	/%U□, FPK66		22106.41	E0			020720.00
	SIC, SEN		1310.00	80			020720.40
	BZZD, SERS-ERROR IF ZD INDICATOR OFF F217D1A		1304.14	40			020721.00
	SIC, SEN		1310.00	80			020721.40
	BZTF, SERS-ERROR IF TF IND. OFF F217D1B		1304.21	C0			020722.00
	SIC, SEN		1310.00	80			020722.40
	BZUF, SERS-ERROR IF UF IND. OFF		1304.22	40			020723.00
	SIC, SEN		1310.00	80			020723.40
	BZVF, SERS		1304.22	C0			020724.00
	B, \$+.32-F217D2		20725.10	00			020724.40
	Z, \$IND		13.22	00			020725.00
	L%U□, FPK52-TURNS ON RGZ INDICATOR		22071.40	60			020725.40
	/%U□, FPK29		22042.41	E0			020726.00
	SIC, SEN		1310.00	80			020726.40
	BZRGZ, SERS-ERROR IF RGZ OFF		1304.35	40			020727.00
	SIC, SEN		1310.00	80			020727.40
	BRLZ, SERS-ERROR IF OTHER INDICATORS ON		1304.34	42			020730.00
	SIC, SEN		1310.00	80			020730.40
	BRZ, SERS		1304.34	C2			020731.00
	SIC, SEN		1310.00	80			020731.40
	BRN, SERS		1304.35	C2			020732.00
	B, \$+.32		20733.10	00			020732.40
	CM0000%BU, 7□, 7.17	F217D3	7.21	80	007000.00	F0	020733.00
	L%BU, 64□, FPK91		22274.00	80	000000.20	50	020734.00
	L%U□, FPK64		22104.40	60			020735.00
	BPFZ, \$+.32		20736.13	C6			020735.40
	/%U□, FPK52		22071.41	E0			020736.00
	CT0110%BU, 7□, 7.17 -TEST LZC++2	F217D3A	7.21	80	007000.15	70	020736.40
	SIC, SEN		1310.00	80			020737.40
	BRGZ, SERS		1304.35	42			020740.00
	SIC, SEN		1310.00	80			020740.40
	BZPF, SERS		1304.13	C0			020741.00
	B, \$+.32		20742.10	00			020741.40
	CM0000%BU, 7□, 7.17	F217D4	7.21	80	007000.00	F0	020742.00
	L%BU, 64□, FPK0		22005.00	80	000000.20	50	020743.00
	L%U□, FPK52		22071.40	60			020744.00
	BPFZ, \$+.32		20745.13	C6			020744.40
	/%U□, FPK64		22104.41	E0			020745.00
	CT0110%BU, 7□, 7.17 -TEST LZC++0	F217D4A	7.21	80	007000.15	70	020745.40
	SIC, SEN		1310.00	80			020746.40
	BRGZ, SERS		1304.35	42			020747.00
	SIC, SEN		1310.00	80			020747.40
	BPF, SERS		1304.13	C2			020750.00
	B, \$+.32		20751.10	00			020750.40
	CM0000%BU, 7□, 7.17	F217D5	7.21	80	007000.00	F0	020751.00
	L%BU, 64□, FPK91		22274.00	80	000000.20	50	020752.00
	L%U□, FK83 -EXP++1028		22264.40	60			020753.00
	BPFZ, \$+.32		20754.13	C6			020753.40
	/%U□, FK59 -EXP++1024		22235.41	E0			020754.00
	CT0110%BU, 7□, 7.17 -TEST LZC++2	F217D5A	7.21	80	007000.15	70	020754.40
	SIC, SEN		1310.00	80			020755.40
	BRGZ, SERS		1304.35	42			020756.00
	B, \$+.32-		20757.10	00			020756.40
	BPFZ, \$+.32	F217D6	20757.53	C6			020757.00
	CM0000%BU, 7□, 7.17		7.21	80	007000.00	F0	020757.40
	L%BU, 64□, FPK0		22005.00	80	000000.20	50	020760.40
	L%U□, FK88-EXP + -1791		22271.40	60			020761.40
	/%U□, FK89 -EXP+-1024		22272.41	E0			020762.00

CT0110%BU,7H,7.17 -CHECK LZC++0

F217D6A

7.21 80 007000.15 70

020762.40

SIC,SEN

1310.00 80

020763.40

BRGZ,SERS

1304.35 42

020764.00

SIC,SEN

1310.00 80

020764.40

BPF,SERS

1304.13 C2

020765.00

BD,S+1.0

20766.44 00

020765.40

B,FD5

20717.10 00

020766.00

SIC,SEN0+.32

1311.40 80

020766.40

B,SSW -

SSW

1301.10 00

020767.00

----F217-W---DIVIDE DOUBLE TEST
 -ARITHMETIC CHECKS

F217WA

FDD1	L%BU, FDD		21774.00	80	000000.20	50	020767.40
	ST%BU, DPET13		1437.00	80	000000.20	D0	020770.40
	SIC, RET1		1306.40	80			020771.40
		B, IDF1	1443.10	00			020772.00
SAP22	DL%U, FK83	- EXPONENTS OF OPNDS IN XFP RNG	F217WA1	22264.44	60		020772.40
	D/%U, FK59		22235.45	E0			020773.00
	CT0110%BU, 60, FK84, 68	-CHECK RESULT EXP AND QUOTIENT	22265.00	80	074042.15	70	020773.40
	SIC, SEN		1310.00	80			020774.40
		BRGZ, SERS	1304.35	42			020775.00
	BZB, 8.60, \$+2.0	- CHECK 49TH QUOTIENT BIT+0	10.74	80	020777.74	00	020775.40
	SIC, SEN		1310.00	80			020776.40
		B, SERS	1304.10	00			020777.00
	L%BU, FK92		22275.00	80	000000.20	50	020777.40
	CT0110%BU, 64, 13.0	-CHECK RR EXP++1028, FRACT+0	15.00	80	000000.15	70	021000.40
	SIC, SEN		1310.00	80			021001.40
		BRGZ, SERS	1304.35	42			021002.00
	DL%U, FPK52	- EXPS IN XFP AND N RNGS	F217WA2	22071.44	60		021002.40
	D/%U, FK85		22266.45	E0			021003.00
	CT0110%BU, 60, FK60, 68	-CHECK RESULT EXP+-1024 AND QUOTIENT	22236.00	80	074042.15	70	021003.40
	SIC, SEN		1310.00	80			021004.40
		BRGZ, SERS	1304.35	42			021005.00
	BZB, 8.60, \$+2.0	- CHECK 49TH QUOTIENT BIT+0	10.74	80	021007.74	00	021005.40
	SIC, SEN		1310.00	80			021006.40
		B, SERS	1304.10	00			021007.00
	L%BU, FPK67		22107.00	80	000000.20	50	021007.40
	CT0110%BU, 64, 13.0	-CHECK RR EXP++2, FRACT+0	15.00	80	000000.15	70	021010.40
	SIC, SEN		1310.00	80			021011.40
		BRGZ, SERS	1304.35	42			021012.00
	DL%U, FK86	-EXPS IN XFP AND XFN RNGS	F217WA3	22267.44	60		021012.40
	D/%U, FK59		22235.45	E0			021013.00
	CT0110%BU, 60, FK60, 68	-CHECK RESULT EXP+-1024 AND QUOTIENT	22236.00	80	074042.15	70	021013.40
	SIC, SEN		1310.00	80			021014.40
		BRGZ, SERS	1304.35	42			021015.00
	BZB, 8.60, \$+2.0	- CHECK 49TH QUOTIENT BIT+0	10.74	80	021017.74	00	021015.40
	SIC, SEN		1310.00	80			021016.40
		B, SERS	1304.10	00			021017.00
	L%BU, FK93		22276.00	80	000000.20	50	021017.40
	CT0110%BU, 64, 13.0	-CHECK RR EXP+-1791, FRACT+0	15.00	80	000000.15	70	021020.40
	SIC, SEN		1310.00	80			021021.40
		BRGZ, SERS	1304.35	42			021022.00
MID1	DL%U, FPK64	-EXPS IN N RNG	F217WA4	22104.44	60		021022.40
	D/%U, FPK52		22071.45	E0			021023.00
	CT0110%BU, 60, FPK80, 68	-CHECK RESULT EXP++2 AND QUOTIENT	22121.00	80	074042.15	70	021023.40
	SIC, SEN		1310.00	80			021024.40
		BRGZ, SERS	1304.35	42			021025.00
	BZB, 8.60, \$+2.0	- CHECK 49TH QUOTIENT BIT+0	10.74	80	021027.74	00	021025.40
	SIC, SEN		1310.00	80			021026.40
		B, SERS	1304.10	00			021027.00
	L%BU, FK120		22331.00	80	000000.20	50	021027.40
	CT0110%BU, 64, 13.0	- CHECK RR EXP+-46 FRACT+0	15.00	80	000000.15	70	021030.40
	SIC, SEN		1310.00	80			021031.40
		BRGZ, SERS	1304.35	42			021032.00
	DL%U, FPK52	-EXPONENTS IN N RNG	F217WA5	22071.44	60		021032.40
	D/%U, FPK64		22104.45	E0			021033.00
	CT0110%BU, 60, FK87, 68	-CHECK RESULT EXP++0 AND QUOTIENT	22270.00	80	074042.15	70	021033.40
	SIC, SEN		1310.00	80			021034.40
		BRGZ, SERS	1304.35	42			021035.00
	BZB, 8.60, \$+2.0	- CHECK 49TH QUOTIENT BIT+0	10.74	80	021037.74	00	021035.40
	SIC, SEN		1310.00	80			021036.40

B,SERS	1304.10	00		021037.00
L%BU,FK106	22313.00	80	000000.20 50	021037.40
CT0110%BU,64,13.0 -CHECK RR EXP+-47,FRACT+0	15.00	80	000000.15 70	021040.40
SIC,SEN	1310.00	80		021041.40
BRGZ,SERS	1304.35	42		021042.00
DL%U,FK86 - EXPS IN N AND XFN RNGS F217WA6	22267.44	60		021042.40
D/%U,FK52	22071.45	E0		021043.00
CT0110%BU,60,FK100,68 - CHECK RES EXP AND QUOTIENT	22305.00	80	074042.15 70	021043.40
SIC,SEN	1310.00	80		021044.40
BRGZ,SERS	1304.35	42		021045.00
BZB,8.60,s+2.0 - CHECK 49TH QUOTIENT BIT+0	10.74	80	021047.74 00	021045.40
SIC,SEN	1310.00	80		021046.40
B,SERS	1304.10	00		021047.00
L%BU,FK93	22276.00	80	000000.20 50	021047.40
CT0110%BU,64,13.0 -CHECK RR EXP+-1791 FRACT+0	15.00	80	000000.15 70	021050.40
SIC,SEN	1310.00	80		021051.40
BRGZ,SERS	1304.35	42		021052.00
DL%U,FK88 -EXPS IN XFN RNG F217WA7	22271.44	60		021052.40
D/%U,FK89	22272.45	E0		021053.00
CT0110%BU,60,FK90,68 -CHECK RESULT EXP++1024 AND QUOTIENT	22273.00	80	074042.15 70	021053.40
SIC,SEN	1310.00	80		021054.40
BRGZ,SERS	1304.35	42		021055.00
BZB,8.60,s+2.0 - CHECK 49TH QUOTIENT BIT+0	10.74	80	021057.74 00	021055.40
SIC,SEN	1310.00	80		021056.40
B,SERS	1304.10	00		021057.00
L%BU,FK93	22276.00	80	000000.20 50	021057.40
CT0110%BU,64,13.0-CHECK RR EXP + -1791, FRACT + 0	15.00	80	000000.15 70	021060.40
SIC,SEN	1310.00	80		021061.40
BRGZ,SERS	1304.35	42		021062.00
BD,s+1.0	21063.44	00		021062.40
B,FDD1	20767.50	00		021063.00
SIC,SEN0+.32	1311.40	80		021063.40
B,SSW	1301.10	00		021064.00

-----F217-WB--TEST SIGN AND MOD COMBS
 -MS+MEM.SIGN,ACS+ACC.SIGN,N AND A ARE MODIFIERS

MID6	DLN%U□,FPK64	- MS+N+A+0	ACS+1	F217WB1	22104.54	60		021064.40
	D/%U□,FPK52				22071.45	E0		021065.00
	BB,10.4,\$+2.0	-TEST SIGN BIT+1			12.04	80	021067.74 02	021065.40
	SIC,SEN				1310.00	80		021066.40
	B,SERS				1304.10	00		021067.00
	DL%U□,FPK64	- MS+1	ACS+N+A+0	F217WB2	22104.44	60		021067.40
	D/%U□,FPK55				22074.45	E0		021070.00
	BB,10.4,\$+2.0	-TEST SIGN BIT+1			12.04	80	021072.74 02	021070.40
	SIC,SEN				1310.00	80		021071.40
	B,SERS				1304.10	00		021072.00
	DLN%U□,FPK64	- MS+ACS+1	N+A+0	F217WB3	22104.54	60		021072.40
	D/%U□,FPK55				22074.45	E0		021073.00
	BZB,10.4,\$+2.0	-TEST SIGN BIT +0			12.04	80	021075.74 00	021073.40
	SIC,SEN				1310.00	80		021074.40
	B,SERS				1304.10	00		021075.00
	DLN%U□,FPK64	- MS+ACS+N+A+1		F217WB4	22104.54	60		021075.40
	D/NA%U□,FPK55				22074.75	E0		021076.00
	BZB,10.4,\$+2.0	-TEST SIGN BIT +0			12.04	80	021100.74 00	021076.40
	SIC,SEN				1310.00	80		021077.40
	B,SERS				1304.10	00		021100.00

-----F217-WC--TEST CHANGED REGS

	C1111%BU□,FPK1,64	-CHK L 61-63 AND R 0-43 +0		F217WC	22006.00	80	000040.36 70	021100.40
	C1111%BU,64□,FPK1				22006.00	80	000000.36 70	021101.40
	D/%U□,FPK1				22006.45	E0		021102.40
	CT0110%BU,47□,FPK0,20	-CHECK ACC.BITS SET TO ZERO			22005.00	80	057012.15 70	021103.00
	SIC,SEN				1310.00	80		021104.00
	BRGZ,SERS				1304.35	42		021104.40
	B,\$+1.0				21106.10	00		021105.00
	B,MID6				21064.50	00		021105.40
	SIC,SEN0+.32				1311.40	80		021106.00
	B,SSW	-		SSW	1301.10	00		021106.40

-----F217-WD--TEST UNCHANGED REGS

FDD5	C1111%BU□,FPK1,64	-		F217WD	22006.00	80	000040.36 70	021107.00
	C1111%BU,64□,FPK1				22006.00	80	000000.36 70	021110.00
	CM1111%BU,8□,10.0				12.00	80	010000.36 F0	021111.00
	D/%U□,FPK1				22006.45	E0		021112.00
	CT1010%BU,20□,FPK1	-DOES R44-63 REMAIN+1-S			22006.00	80	024000.25 70	021112.40
	SIC,SEN				1310.00	80		021113.40
	BRGZ,SERS				1304.35	42		021114.00
	CT1100%BU,4□,10.0	-DOES SB0-3 REMAIN+1-S			12.00	80	004000.31 70	021114.40
	SIC,SEN				1310.00	80		021115.40
	BRGZ,SERS				1304.35	42		021116.00
	CT1100%BU,3□,10.5	-DOES SB5-7 REMAIN+1-S			12.05	80	003000.31 70	021116.40
	SIC,SEN				1310.00	80		021117.40
	BRGZ,SERS				1304.35	42		021120.00

-----F217-WE--REMAINDER UNFLO IND TESTS

MID10	DL%U□,FK98	-RU IND OFF TO ON		F217WE1	22303.44	60		021120.40
	BRUZ,\$+.32				21121.61	46		021121.00
	D/%U□,FK97	-REMAINDER EXP. HAS GENERATED EF+1,ES+1			22302.45	E0		021121.40
	SIC,SEN				1310.00	80		021122.00
	BZRU,SERS				1304.21	40		021122.40
	DL%U□,FK83	- RU IND OFF TO OFF			22264.44	60		021123.00

BRUZ,\$+.32
D/%UH,FK59-REMAINDER EXP. HAS PROPAGATED EF+1
SIC,SEN
BRU,SERS
BD,s+1.0
B,FDD5
SIC,SEN0+.32
B,SSW

21124.21 46
22235.45 E0
1310.00 80
1304.21 42
21126.44 00
21107.10 00
1311.40 80
1301.10 00

021123.40
021124.00
021124.40
021125.00
021125.40
021126.00
021126.40
021127.00

----F217-XA--RECIPROCAL DIVIDE TESTS
- ARITHMETIC CHECKS

FRD1	L%BU,FRD				21775.00	80	000000.20	50	021127.40
	ST%BU,DPET13				1437.00	80	000000.20	D0	021130.40
	SIC,RET1				1306.40	80			021131.40
		B,IDE1			1443.10	00			021132.00
	BD,SAP23				21133.04	00			021132.40
SAP23	L%U,FK59	-EXP++1024		F217XA1	22235.40	60			021133.00
	R/%U,FK83	-EXP++1028			22264.43	E0			021133.40
	CT0110%BU,60,FK84,68	-CHECK RESULT EXP AND QUOTIENT			22265.00	80	074042.15	70	021134.00
	SIC,SEN				1310.00	80			021135.00
		BRGZ,SERS			1304.35	42			021135.40
	L%U,FK85	-EXP+ +1024		F217XA2	22266.40	60			021136.00
	R/%U,FK52	-EXP++2			22071.43	E0			021136.40
	CT0110%BU,60,FK60,68	- CHECK RES EXP+-1024	AND QUOT		22236.00	80	074042.15	70	021137.00
	SIC,SEN				1310.00	80			021140.00
		BRGZ,SERS			1304.35	42			021140.40
	L%U,FK59	-EXP++1024		F217XA3	22235.40	60			021141.00
	R/%U,FK86	-EXP+-1791			22267.43	E0			021141.40
	CT0110%BU,60,FK60,68	- CHECK RES EXP+-1024	AND QUOT		22236.00	80	074042.15	70	021142.00
	SIC,SEN				1310.00	80			021143.00
		BRGZ,SERS			1304.35	42			021143.40
	L%U,FK52	-EXP++2		F217XA4	22071.40	60			021144.00
	R/%U,FK64				22104.43	E0			021144.40
	CT0110%BU,60,FK80,68	-CHK RESULT EXP AND QUOTIENT			22121.00	80	074042.15	70	021145.00
	SIC,SEN				1310.00	80			021146.00
		BRGZ,SERS			1304.35	42			021146.40
	L%U,FK64	-EXP++2		F217XA5	22104.40	60			021147.00
	R/%U,FK52				22071.43	E0			021147.40
	CT0110%BU,60,FK87,68	- CHECK RES EXP++0	FRACT+.1		22270.00	80	074042.15	70	021150.00
	SIC,SEN				1310.00	80			021151.00
		BRGZ,SERS			1304.35	42			021151.40
	L%U,FK52	-EXP++2		F217XA6	22071.40	60			021152.00
	R/%U,FK86				22267.43	E0			021152.40
	CT0110%BU,60,FK100,68	- CHECK RES EXP+-1791	AND QUOT		22305.00	80	074042.15	70	021153.00
	SIC,SEN				1310.00	80			021154.00
		BRGZ,SERS			1304.35	42			021154.40
	L%U,FK89	-EXP -1024		F217XA7	22272.40	60			021155.00
	R/%U,FK88				22271.43	E0			021155.40
	CT0110%BU,60,FK90,68	- CHECK RES EXP++1024			22273.00	80	074042.15	70	021156.00
	SIC,SEN				1310.00	80			021157.00
		BRGZ,SERS			1304.35	42			021157.40
	L%U,FK29	ZERO DIVISOR		F217XA8	22042.40	60			021160.00
	R/%U,FK52				22071.43	E0			021160.40
	CT0110%BU,60,FK29,68	CHECK THAT DIVISOR REMAINS IN ACC.			22042.00	80	074042.15	70	021161.00
	SIC,SEN				1310.00	80			021162.00
		BRGZ,SERS			1304.35	42			021162.40
	B,\$+1.				21164.10	00			021163.00
		B,SAP23			21133.10	00			021163.40
	SIC,SEN0+.32				1311.40	80			021164.00
		B,SSW			1301.10	00			021164.40

----F217-XB--TEST SIGN AND MOD COMBS

-MS+MEM. SIGN, ACS+ACC. SIGN, N AND A ARE MODIFIERS

MID17	LN%U□, FPK52	- MS+N+A+0	ACS+1	F217XB1	22071.50	60			021165.00
	R/%U□, FPK64				22104.43	E0			021165.40
	BB, 10.4, \$+2.	-IS SIGN 1			12.04	80	021170.34	02	021166.00
	SIC, SEN				1310.00	80			021167.00
	B, SERS				1304.10	00			021167.40
	L%U□, FPK52	- MS+1	ACS+N+A+0	F217XB2	22071.40	60			021170.00
	R/%U□, FPK69				22111.43	E0			021170.40
	BB, 10.4, \$+2.	-IS SIGN 1			12.04	80	021173.34	02	021171.00
	SIC, SEN				1310.00	80			021172.00
	B, SERS				1304.10	00			021172.40
	LN%U□, FPK52	- MS+ACS+1	N+A+0	F217XB3	22071.50	60			021173.00
	R/%U□, FPK69				22111.43	E0			021173.40
	BZB, 10.4, \$+2.	-IS SIGN 0			12.04	80	021176.34	00	021174.00
	SIC, SEN				1310.00	80			021175.00
	B, SERS				1304.10	00			021175.40
	LN%U□, FPK52	- MS+ACS+N+A+1		F217XB4	22071.50	60			021176.00
	R/NA%U□, FPK69				22111.73	E0			021176.40
	BZB, 10.4, \$+2.	-IS SIGN 0			12.04	80	021201.34	00	021177.00
	SIC, SEN				1310.00	80			021200.00
	B, SERS				1304.10	00			021200.40

----F217-XC--TEST UNCHANGED REGS

	C1111%BU, 64□, FPK1, 64				22006.00	80	000040.36	70	021201.00
	C1111%BU, 64□, FPK1				22006.00	80	000000.36	70	021202.00
	CM1111%BU, 8□, 10.0				12.00	80	010000.36	F0	021203.00
	R/%U□, FPK1				22006.43	E0			021204.00
	CT1010%BU, 64□, FPK1-DOES R REMAIN+1 S				22006.00	80	000000.25	70	021204.40
	SIC, SEN				1310.00	80			021205.40
	BRGZ, SERS				1304.35	42			021206.00
	CT1100%BU, 4□, 10.0-DOES SB 0-3 REMAIN+1 S				12.00	80	004000.31	70	021206.40
	SIC, SEN				1310.00	80			021207.40
	BRGZ, SERS				1304.35	42			021210.00
	CT1100%BU, 3□, 10.5-DOES SB 5-7 REMAIN+1 S				12.05	80	003000.31	70	021210.40
	SIC, SEN				1310.00	80			021211.40
	BRGZ, SERS				1304.35	42			021212.00
	B, \$+1.0				21213.50	00			021212.40
	B, MID17				21165.10	00			021213.00
	SIC, SEN0+.32				1311.40	80			021213.40
	B, SSW				1301.10	00			021214.00

----F217-XD--INDICATOR TESTS								
MID20	CM0000%BU,7,7.17	- EXPS IN N RNG	F217XD1	7.21	80	007000.00	F0	021214.40
	L%BU,64,FK91			22274.00	80	000000.20	50	021215.40
	L%U,FK52			22071.40	60			021216.40
	BPFZ,\$+.32			21217.53	C6			021217.00
	R/%U,FK64			22104.43	E0			021217.40
	CT0110%BU,7,7.17	-CHECK LZC++2	F217D1A	7.21	80	007000.15	70	021220.00
	SIC,SEN			1310.00	80			021221.00
	BRGZ,SERS			1304.35	42			021221.40
	SIC,SEN			1310.00	80			021222.00
	BZPF,SERS	-ERROR IF PF OFF		1304.13	C0			021222.40
	CM0000%BU,7,7.17	- EXPS IN N RNG	F217XD2	7.21	80	007000.00	F0	021223.00
	L%BU,64,FK0			22005.00	80	000000.20	50	021224.00
	L%U,FK64			22104.40	60			021225.00
	BPFZ,\$+.32			21226.13	C6			021225.40
	R/%U,FK52			22071.43	E0			021226.00
	CT0110%BU,7,7.17	-CHECK LZC++0	F217D2A	7.21	80	007000.15	70	021226.40
	SIC,SEN			1310.00	80			021227.40
	BRGZ,SERS			1304.35	42			021230.00
	SIC,SEN			1310.00	80			021230.40
	BPF,SERS	-ERROR IF PF ON		1304.13	C2			021231.00
	CM0000%BU,7,7.17	- EXPS IN XFP RNG	F217XD3	7.21	80	007000.00	F0	021231.40
	L%BU,FK91			22274.00	80	000000.20	50	021232.40
	L%U,FK59			22235.40	60			021233.40
	BPFZ,\$+.32			21234.53	C6			021234.00
	R/%U,FK83			22264.43	E0			021234.40
	CT0110%BU,7,7.17	-CHECK LZC++2	F217D3A	7.21	80	007000.15	70	021235.00
	SIC,SEN			1310.00	80			021236.00
	BRGZ,SERS			1304.35	42			021236.40
	CM0000%BU,7,7.17	- EXPS IN XFN RNG	F217XD4	7.21	80	007000.00	F0	021237.00
	L%BU,64,FK0			22005.00	80	000000.20	50	021240.00
	L%U,FK89			22272.40	60			021241.00
	BPFZ,\$+.32			21242.13	C6			021241.40
	R/%U,FK88			22271.43	E0			021242.00
	CT0110%BU,7,7.17	-CHECK LZC++0	F217D4A	7.21	80	007000.15	70	021242.40
	SIC,SEN			1310.00	80			021243.40
	BRGZ,SERS			1304.35	42			021244.00
	SIC,SEN			1310.00	80			021244.40
	BPF,SERS	-ERROR IF PF ON		1304.13	C2			021245.00
	B,\$+1.0			21246.50	00			021245.40
	B,MID20			21214.50	00			021246.00
	SIC,SEN0+.32			1311.40	80			021246.40
	B,SSW			1301.10	00			021247.00

----F218 ---STORE ROOT TEST
 ----F218A--- ARITHMETIC CHECKS

PD-1

STRT1	L%BU, F218		21776.00	80	000000.20	50	021247.40
	ST%BU, DPET13		1437.00	80	000000.20	D0	021250.40
	SIC, RET1		1306.40	80			021251.40
	B, IDF1		1443.10	00			021252.00
SAP24	B, s+.32-EXPONENTS OF OPNDS IN N RANGE	F218A1	21253.10	00			021252.40
	L%BU, 64, FPK29		22042.00	80	000000.20	50	021253.00
	L%U, FPK67-EXP++2, FRACT+0		22107.40	60			021254.00
	SRT%U, ROS		22355.46	E0			021254.40
	CT0110%BU, 64, ROS-TEST RESULT EXP++1, FRACT+0		22355.00	80	000000.15	70	021255.00
	SIC, SEN		1310.00	80			021256.00
	BRGZ, SERS		1304.35	42			021256.40
	B, s+.32-F218A2		21257.50	00			021257.00
	L%BU, 64, FPK72		22113.00	80	000000.20	50	021257.40
	L%N, FPK71-NORM. EXP++6, FRACT+49		22112.00	60			021260.40
	SRT%U, ROS		22355.46	E0			021261.00
	CT0110%BU, 64, ROS-TEST RESULT EXP++3, FRACT+7		22355.00	80	000000.15	70	021261.40
	SIC, SEN		1310.00	80			021262.40
	BRGZ, SERS		1304.35	42			021263.00
	B, s+.32-F218A3		21264.10	00			021263.40
	L%BU, 64, FPK67		22107.00	80	000000.20	50	021264.00
	L%U, FPK75-EXP + +3, FRACT + 0		22116.40	60			021265.00
	SRT%U, ROS		22355.46	E0			021265.40
	CT0110%BU, 64, ROS-TEST RESULT EXP++2, FRACT+0		22355.00	80	000000.15	70	021266.00
	SIC, SEN		1310.00	80			021267.00
	BRGZ, SERS		1304.35	42			021267.40
	B, s+.32-	F218A4	21270.50	00			021270.00
	L%BU, 64, FPK74		22115.00	80	000000.20	50	021270.40
	L%N, FPK73-NORM. EXP++5, FRACT+16		22114.00	60			021271.40
	SRT%U, ROS		22355.46	E0			021272.00
	CT0110%BU, 64, ROS-TEST RESULT EXP.++3, FRACT+4		22355.00	80	000000.15	70	021272.40
	SIC, SEN		1310.00	80			021273.40
	BRGZ, SERS		1304.35	42			021274.00
	- EXPONENTS OF OPNDS IN XFP RNG F218A5						
	L%BU, FK74		22254.00	80	000000.20	50	021274.40
	L%U, FK126 - EXP ++1791		22337.40	60			021275.40
	SRT%U, ROS		22355.46	E0			021276.00
	CT0110%BU, 64, ROS -CHECK RESULT EXP.++1791 AND,		22355.00	80	000000.15	70	021276.40
	SIC, SEN		1310.00	80			021277.40
	BRGZ, SERS -RESULT FRACTION IS .1000...		1304.35	42			021300.00
	B, s+.32 -	F218A6	21301.10	00			021300.40
	L%BU, 64, FK76		22256.00	80	000000.20	50	021301.00
	L%U, FK75 -EXP+1024		22255.40	60			021302.00
	SRT%U, ROS		22355.46	E0			021302.40
	CT0110%BU, 64, ROS -CHECK RESULT EXP++1024 AND,		22355.00	80	000000.15	70	021303.00
	SIC, SEN		1310.00	80			021304.00
	BRGZ, SERS -RESULT FRACTION IS .01000...		1304.35	42			021304.40
	B, s+.32 -EXPONENTS OF OPNDS IN XFN RANGE	F218A7	21305.50	00			021305.00
	L%BU, 64, FK60		22236.00	80	000000.20	50	021305.40
	L%U, FK78 -EXP+-1024		22257.40	60			021306.40
	SRT%U, ROS		22355.46	E0			021307.00
	CT0110%BU, 64, ROS -CHECK RESULT EXP+-1024 AND,		22355.00	80	000000.15	70	021307.40
	SIC, SEN		1310.00	80			021310.40
	BRGZ, SERS -RESULT FRACTION IS .01000...		1304.35	42			021311.00

B,s+.32	-	F218A8	21312.10	00		021311.40
L%BU,64# ,FK80			22261.00	80	000000.20 50	021312.00
L%U# ,FK127	- EXP+-2047		22340.40	60		021313.00
SRT%U# ,ROS			22355.46	E0		021313.40
CT0110%BU,64# ,ROS	-CHECK RESULT EXP+-2047 AND,		22355.00	80	000000.15 70	021314.00
SIC,SEN			1310.00	80		021315.00
	BRGZ,SERS -RESULT FRACTION IS .001000...		1304.35	42		021315.40
	-TEST NORMALIZATION MODIFIER					

F218A9	L%BU# ,FK76	- EXP IN XFP RANGE	F218A9	22256.00	80	000000.20 50	021316.00
	L%U# ,FK75			22255.40	60		021317.00
	SRT%N# ,ROS			22355.06	E0		021317.40
	CT0110%BU,64# ,ROS			22355.00	80	000000.15 70	021320.00
	SIC,SEN			1310.00	80		021321.00

	BRGZ,SERS -ERROR IF RESULT NORM			1304.35	42		021321.40
B,s+.32	-EXP. IN XFN RANGE	F218A10	21322.50	00		021322.00	
L%BU,64# ,FK60			22236.00	80	000000.20 50	021322.40	
L%U# ,FK78			22257.40	60		021323.40	
SRT%N# ,ROS			22355.06	E0		021324.00	
CT0110%BU,64# ,ROS			22355.00	80	000000.15 70	021324.40	
SIC,SEN			1310.00	80		021325.40	
	BRGZ,SERS -ERROR IF RESULT NORM			1304.35	42		021326.00

	- EXPONENT IN N RANGE	F218A11				
L%BU,64# ,FK82			22263.00	80	000000.20 50	021326.40
L%U# ,FK81			22262.40	60		021327.40
SRT%N# ,ROS			22355.06	E0		021330.00
CT0110%BU,64# ,ROS			22355.00	80	000000.15 70	021330.40
SIC,SEN			1310.00	80		021331.40
	BRGZ,SERS -ERROR IF RESULT NOT NORM			1304.35	42	021332.00

- IMAGINARY ROOT

	- EXPONENT IN N RANGE	F218A12				
L%U# ,FK135	- FRACTION SIGN NEG		22350.40	60		021332.40
SRT%U# ,ROS			22355.46	E0		021333.00
L%BU# ,FK136			22351.00	80	000000.20 50	021333.40
CT0110%BU# ,ROS			22355.00	80	000000.15 70	021334.40
SIC,SEN			1310.00	80		021335.40
	BRGZ,SERS			1304.35	42	021336.00
BIRZ,s+.32			21337.14	C6		021336.40
BD,s+1.0			21340.04	00		021337.00
	B,STRT1		21247.50	00		021337.40
SIC,SEN0+.32			1311.40	80		021340.00
	B,SSW -	SSW	1301.10	00		021340.40

-SIGN AND MODIFIER COMBINATIONS F218B
 -ACS+ACC. SIGN, N AND A ARE MODIFIERS

F218B	Code	Modifier	F218B1	Value	Unit	Scale	Offset	Result
	L%BU, FPK72			22113.00	80	000000.20	50	021341.00
	L%N, FPK71			22112.00	60			021342.00
	SRT%U, ROS			22355.46	E0			021342.40
	CT0110%BU, 60, ROS, 4	-TEST RESULT EXP AND FRACT.		22355.00	80	074002.15	70	021343.00
	SIC, SEN			1310.00	80			021344.00
		BRGZ, SERS		1304.35	42			021344.40
	BZB, ROS+, 60, S+2.	-IS SIGN BIT 0		22355.74	80	021347.34	00	021345.00
	SIC, SEN			1310.00	80			021346.00
		B, SERS		1304.10	00			021346.40
	B, S+, 32-ACS+N+0, A+1	F218B2		21347.50	00			021347.00
	L%BU, 64, FPK72			22113.00	80	000000.20	50	021347.40
	L%N, FPK71			22112.00	60			021350.40
	SRTA%U, ROS			22355.66	E0			021351.00
	CT0110%BU, 60, ROS, 4			22355.00	80	074002.15	70	021351.40
	SIC, SEN			1310.00	80			021352.40
		BRGZ, SERS		1304.35	42			021353.00
	BZB, ROS+, 60, S+2.	-IS SIGN BIT 0		22355.74	80	021355.74	00	021353.40
	SIC, SEN			1310.00	80			021354.40
		B, SERS		1304.10	00			021355.00
	B, S+, 32-ACS+A+0, N+1	F218B3		21356.10	00			021355.40
	L%BU, 64, FPK74			22115.00	80	000000.20	50	021356.00
	L%N, FPK73			22114.00	60			021357.00
	SNRT%U, ROS	-MAKES SIGN OF SQUARE ROOT, NEG.		22355.56	E0			021357.40
	CT0110%BU, 60, ROS, 4			22355.00	80	074002.15	70	021360.00
	SIC, SEN			1310.00	80			021361.00
		BRGZ, SERS		1304.35	42			021361.40
	BB, ROS+, 60, S+2.	-IS SIGN BIT 1		22355.74	80	021364.34	02	021362.00
	SIC, SEN			1310.00	80			021363.00
		B, SERS		1304.10	00			021363.40
	B, S+, 32-ACS+0, N+A+1	F218B4		21364.50	00			021364.00
	L%BU, 64, FPK74			22115.00	80	000000.20	50	021364.40
	L%N, FPK73			22114.00	60			021365.40
	SNRTA%U, ROS	-SIGN OF SQUARE ROOT, NEG.		22355.76	E0			021366.00
	CT0110%BU, 60, ROS, 4			22355.00	80	074002.15	70	021366.40
	SIC, SEN			1310.00	80			021367.40
		BRGZ, SERS		1304.35	42			021370.00
	BB, ROS+, 60, S+2.	-IS SIGN BIT 1		22355.74	80	021372.74	02	021370.40
	SIC, SEN			1310.00	80			021371.40
		B, SERS		1304.10	00			021372.00
	B, S+, 32-ACS+1, N+A+0	F218B5		21373.10	00			021372.40
	L%BU, 64, FPK74			22115.00	80	000000.20	50	021373.00
	LN%N, FPK73			22114.10	60			021374.00
	SRT%U, ROS	-SIGN OF SQUARE ROOT, POS.		22355.46	E0			021374.40
	CT0110%BU, 60, ROS, 4			22355.00	80	074002.15	70	021375.00
	SIC, SEN			1310.00	80			021376.00
		BRGZ, SERS		1304.35	42			021376.40
	BZB, ROS+, 60, S+2.	-IS SIGN BIT 0		22355.74	80	021401.34	00	021377.00
	SIC, SEN			1310.00	80			021400.00
		B, SERS		1304.10	00			021400.40
	B, S+, 32-ACS+A+1, N+0	F218B6		21401.50	00			021401.00
	L%BU, 64, FPK74			22115.00	80	000000.20	50	021401.40
	LN%N, FPK73			22114.10	60			021402.40
	SRTA%U, ROS	-SIGN OF SQUARE ROOT, POS.		22355.66	E0			021403.00
	CT0110%BU, 60, ROS, 4			22355.00	80	074002.15	70	021403.40
	SIC, SEN			1310.00	80			021404.40
		BRGZ, SERS		1304.35	42			021405.00
	BZB, ROS+, 60, S+2.	-IS SIGN BIT 0		22355.74	80	021407.74	00	021405.40
	SIC, SEN			1310.00	80			021406.40
		B, SERS		1304.10	00			021407.00

B,\$+.32-ACS+N+1, A+0 F218B7	21410.10 00	021407.40
L%BU,64#,FPK74	22115.00 80 000000.20 50	021410.00
LN%N#,FPK73	22114.10 60	021411.00
SNRT%U#,ROS-SIGN OF SQUARE ROOT, NEG.	22355.56 E0	021411.40
CT0110%BU,60#,ROS,4	22355.00 80 074002.15 70	021412.00
SIC,SEN	1310.00 80	021413.00
BRGZ,SERS	1304.35 42	021413.40
BB,ROS+.60,\$+2. -IS SIGN BIT 1	22355.74 80 021416.34 02	021414.00
SIC,SEN	1310.00 80	021415.00
B,SERS	1304.10 00	021415.40
B,\$+.32-ACS+N+A+1 F218B8	21416.50 00	021416.00
L%BU,64#,FPK74	22115.00 80 000000.20 50	021416.40
LN%N#,FPK73	22114.10 60	021417.40
SNRTA%U#,ROS-SIGN OF SQUARE ROOT NEG	22355.76 E0	021420.00
CT0110%BU,60#,ROS,4	22355.00 80 074002.15 70	021420.40
SIC,SEN	1310.00 80	021421.40
BRGZ,SERS	1304.35 42	021422.00
BB,ROS+.60,\$+2. -IS SIGN BIT 1	22355.74 80 021424.74 02	021422.40
SIC,SEN	1310.00 80	021423.40
B,SERS	1304.10 00	021424.00
BD,\$+1.0	21425.44 00	021424.40
B,F218B	21341.10 00	021425.00
SIC,SEN0+.32	1311.40 80	021425.40
B,SSW -	SSW 1301.10 00	021426.00
-TEST UNCHANGED REGISTERS	F218C	
- 1 S REMAIN 1 S	F218C1	
F218C C1111%BU#,FPK1,64	22006.00 80 000040.36 70	021426.40
C1111%BU,64#,FPK1	22006.00 80 000000.36 70	021427.40
CM1111%BU,8#,10.0	12.00 80 010000.36 F0	021430.40
SRTA%U#,ROS	22355.66 E0	021431.40
CT1010%BU,64#,FPK1,64 -DOES L0-63 REAMIN+1-S	F218C1 22006.00 80 000040.25 70	021432.00
SIC,SEN	1310.00 80	021433.00
BRGZ,SERS	1304.35 42	021433.40
CT1010%BU,64#,FPK1 -DOES R0-63 REMAIN+1-S	F218C2 22006.00 80 000000.25 70	021434.00
SIC,SEN	1310.00 80	021435.00
BRGZ,SERS	1304.35 42	021435.40
CT1100%BU,8#,10.0 -DOES S0-7 REMAIN+1-S	F218C3 12.00 80 010000.31 70	021436.00
SIC,SEN	1310.00 80	021437.00
BRGZ,SERS	1304.35 42	021437.40
-TESTS OF INDICATORS F218D		
B,\$+.32-TEST MOP AND IR INDICATORS ON	21440.50 00	021440.00
LN%N#,FPK73	22114.10 60	021440.40
Z,\$IND	13.22 00	021441.00
SRT%U#,ROS	22355.46 E0	021441.40
SIC,SEN	1310.00 80	021442.00
BZMOP,SERS-ERROR IF MOP INDICATOR OFF	1304.33 C0	021442.40
SIC,SEN	1310.00 80	021443.00
BZIR,SERS -ERROR IF IR OFF	1304.14 C0	021443.40
Z,\$IND	13.22 00	021444.00
B,\$+1.	21445.50 00	021444.40
B,F218C	21426.50 00	021445.00
SIC,SEN0+.32	1311.40 80	021445.40
B,SSW -	SSW 1301.10 00	021446.00

-NOISY MODE TEST ROUTINE F219

-ADD CHECKS

FNYM1	L%BU, F219	21777.00	80	000000.20	50	021446.40
	ST%BU, DPET13	1437.00	80	000000.20	D0	021447.40
	SIC, RET1	1306.40	80			021450.40
	B, IDF1	1443.10	00			021451.00
SAP25	BB1, 11.63, \$+1.0 - EXP MEM + EXP ACC + +48	13.77	80	021452.74	0E	021451.40
	Z, SL	10.22	00			021452.40
	Z, SR	11.22	00			021453.00
	L%U, FPK38-EXTENDED WITH 48 LOW-ORDER ONE BITS	22053.40	60			021453.40
	+%N, FPK35	22050.00	20			021454.00
	CT0110%BU, 60, FPK98, 68	22140.00	80	074042.15	70	021454.40
	SIC, SEN	1310.00	80			021455.40
	BRGZ, SERS	1304.35	42			021456.00
	L%U, FPK35 - EXP MEM + EXP ACC + +48	22050.40	60			021456.40
	+%N, FPK38-MEM. FRACT. EXTENDED WITH 48 LOW-ORDER 1 BITS	22053.00	20			021457.00
	CT0110%BU, 60, FPK98, 68	22140.00	80	074042.15	70	021457.40
	SIC, SEN	1310.00	80			021460.40
	BRGZ, SERS	1304.35	42			021461.00
	- EXP MEM + EXP ACC					
	L%U, FPK39-EXTENDED WITH 48 LOW-ORDER ONE BITS	22054.40	60			021461.40
	+%N, FPK5	22012.00	20			021462.00
	CT0110%BU, 60, FPK22, 68	22033.00	80	074042.15	70	021462.40
	SIC, SEN	1310.00	80			021463.40
	BRGZ, SERS	1304.35	42			021464.00

-ADD TO MAGNITUDE CHECKS

	- EXP MEM + EXP ACC + + 48					
	L%U, FPK38-EXTENDED WITH 48 LOW ORDER 1 BITS	22053.40	60			021464.40
	+MG%N, FPK32	22045.02	20			021465.00
	CT0110%BU, 60, FPK98, 68	22140.00	80	074042.15	70	021465.40
	SIC, SEN	1310.00	80			021466.40
	BRGZ, SERS	1304.35	42			021467.00
	- EXP MEM UNEQUAL TO EXP ACC					
	L%U, FPK8-EXTENDED WITH 48 LOW ORDER 1 BITS	22015.40	60			021467.40
	+MG%N, FPK7	22014.02	20			021470.00
	CT0110%BU, 60, FPK99, 68	22141.00	80	074042.15	70	021470.40
	SIC, SEN	1310.00	80			021471.40
	BRGZ, SERS	1304.35	42			021472.00

-LOAD CHECKS

	- 0 % LEADING 0 S , 48					
	L%N, FPK77	22120.00	60			021472.40
	CT0110%BU, 60, FK122, 68	22333.00	80	074042.15	70	021473.00
	SIC, SEN	1310.00	80			021474.00
	BRGZ, SERS	1304.35	42			021474.40
	- 48 LEADING 0 S					
	L%N, FPK31	22044.00	60			021475.00
	CT0110%BU, 60, FPK31, 68-CHECK NORMALIZATION NOT PERFORMED	22044.00	80	074042.15	70	021475.40
	SIC, SEN	1310.00	80			021476.40
	BRGZ, SERS	1304.35	42			021477.00
	-LOAD WITH FLAG CHECK					
	LWF%N, FK113 -SB 5-7 SET TO 1 LEAD 0S+47	22322.02	60			021477.40
	CT0110%BU, 60, FK123, 68	22334.00	80	074042.15	70	021500.00
	SIC, SEN	1310.00	80			021501.00
	BRGZ, SERS	1304.35	42			021501.40

-ADD TO MEMORY CHECK

	- EXP MEM + EXP ACC + + 48	F219E					
L%BU,FK114	-	F219E	22323.00	80	000000.20	50	021502.00
ST%BU,64,ROS			22355.00	80	000000.20	D0	021503.00
L%U,FK115			22324.40	60			021504.00
M+%N,ROS-MEM.FRACT.EXTENDED WITH 48 LOW-ORDER 1 BITS			22355.00	A0			021504.40
L%BU,FK116			22325.00	80	000000.20	50	021505.00
CT0110%BU,60,ROS,4			22355.00	80	074002.15	70	021506.00
SIC,SEN			1310.00	80			021507.00
BRGZ,SERS			1304.35	42			021507.40

-ADD MAGNITUDE TO MEMORY CHECK

	- EXP MEM + EXP ACC + + 48	F219F					
L%BU,FK114	-	F219F	22323.00	80	000000.20	50	021510.00
ST%BU,64,ROS			22355.00	80	000000.20	D0	021511.00
L%U,FK115			22324.40	60			021512.00
M+MG%N,ROS-MEM.FRACT.EXTENDED WITH 48 LOW ORDER 1 BITS			22355.02	A0			021512.40
L%BU,FK116			22325.00	80	000000.20	50	021513.00
CT0110%BU,60,ROS,4			22355.00	80	074002.15	70	021514.00
SIC,SEN			1310.00	80			021515.00
BRGZ,SERS			1304.35	42			021515.40

-STORE CHECK F219G

	- 0 % LEADING 0 S % 48	F219G					
L%U,FPK77			22120.40	60			021516.00
ST%N,ROS			22355.00	E0			021516.40
L%BU,FK122			22333.00	80	000000.20	50	021517.00
CT0110%BU,60,ROS,4			22355.00	80	074002.15	70	021520.00
SIC,SEN			1310.00	80			021521.00
BRGZ,SERS			1304.35	42			021521.40

-COMPARE CHECK

		F219H					
B,S+.32-		F219H	21522.50	00			021522.00
Z,SIND			13.22	00			021522.40
BB1,11.63,S+1.0			13.77	80	021524.34	0E	021523.00
DL%U,FK124			22335.44	60			021524.00
K%N,FPK32			22045.01	20			021524.40
SIC,SEN			1310.00	80			021525.00
BZAE,SERS-ERROR IF AE OFF			1304.36	C0			021525.40
SIC,SEN			1310.00	80			021526.00
BAH,SERS -ERROR IF AH ON			1304.37	42			021526.40

-COMPARE MAGNITUDE CHECK

		F219I					
B,S+.32-		F219I	21527.50	00			021527.00
Z,SIND			13.22	00			021527.40
BB1,11.63,S+1.0			13.77	80	021531.34	0E	021530.00
DL%U,FK124			22335.44	60			021531.00
KMG%N,FPK32			22045.03	20			021531.40
SIC,SEN			1310.00	80			021532.00
BZAE,SERS-ERROR IF AE OFF			1304.36	C0			021532.40
SIC,SEN			1310.00	80			021533.00
BAH,SERS -ERROR IF AH ON			1304.37	42			021533.40

-COMPARE FOR RANGE CHECK

		F219J					
B,S+.32-		F219J	21534.50	00			021534.00
BB1,\$AH,S+1.			13.76	80	021535.74	0E	021534.40
DL%U,FK124			22335.44	60			021535.40
KR%N,FPK32			22045.01	60			021536.00
SIC,SEN			1310.00	80			021536.40
BZAH,SERS -ERROR IF AH OFF			1304.37	40			021537.00

-COMPARE MAG.FOR RANGE CHECK

B,s+.32-	F219K	21540.10	00		021537.40
BB1,SAH,s+1.		13.76	80	021541.34 0E	021540.00
DL%U□,FK124		22335.44	60		021541.00
KMGR%N□,FPK32		22045.03	60		021541.40
SIC,SEN		1310.00	80		021542.00
BZAH,SERS -ERROR IF AH OFF		1304.37	40		021542.40

-MULTIPLY CHECK

B,s+.32-	F219L	21543.50	00		021543.00
L%U□,FPK52		22071.40	60		021543.40
*%N□,FPK80		22121.01	A0		021544.00
CT0110%BU,60□,FK118,68 - TEST MUL AFFECTED BY N M		22327.00	80	074042.15 70	021544.40
SIC,SEN		1310.00	80		021545.40
BRGZ,SERS		1304.35	42		021546.00

-DIVIDE CHECK

B,s+.32-	F219M	21547.10	00		021546.40
L%U□,FK95		22300.40	60		021547.00
/%N□,FK96		22301.01	E0		021547.40
CT0110%BU,60□,FK74,68		22115.00	80	074042.15 70	021550.00
SIC,SEN		1310.00	80		021551.00
BRGZ,SERS		1304.35	42		021551.40

-RECIPROCAL DIVIDE CHECK

B,s+.32-	F219N	21552.50	00		021552.00
L%U□,FK96		22301.40	60		021552.40
R/%N□,FK95		22300.03	E0		021553.00
CT0110%BU,60□,FK74,68		22115.00	80	074042.15 70	021553.40
SIC,SEN		1310.00	80		021554.40
BRGZ,SERS		1304.35	42		021555.00

-STORE ROOT CHECK

B,s+.32-	F219O	21556.10	00		021555.40
L%U□,FK81		22262.40	60		021556.00
SRT%N□,ROS		22355.06	E0		021556.40
L%BU,64□,FK82		22263.00	80	000000.20 50	021557.00
CT0110%BU,60□,ROS,4-CHECK NO LOW ORDER ONE BITS IN RESULT		22355.00	80	074002.15 70	021560.00
SIC,SEN		1310.00	80		021561.00
BRGZ,SERS		1304.35	42		021561.40

-ADD DOUBLE CHECK

- EXP MEM + EXP ACC + + 48	F219P1				
DL%U□,FPK38		22053.44	60		021562.00
C0011%BU,48□,FPK38+.12,20		22053.14	80	060012.06 70	021562.40
D+%N□,FPK35		22050.04	20		021563.40
CT0110%BU,48□,FPK99.12,68		22141.14	80	060042.15 70	021564.00
SIC,SEN		1310.00	80		021565.00
BRGZ,SERS		1304.35	42		021565.40
CT0110%BU,48□,FPK32+.12,20		22045.14	80	060012.15 70	021566.00
SIC,SEN		1310.00	80		021567.00
BRGZ,SERS		1304.35	42		021567.40

- ADD DOUBLE CHECK

- EXP MEM + EXP ACC + + 48	F219P2				
DL%U□,FPK35		22050.44	60		021570.00
D+%N□,FPK38		22053.04	20		021570.40
CT0110%BU,48□,FPK99+.12,68		22141.14	80	060042.15 70	021571.00
SIC,SEN		1310.00	80		021572.00
BRGZ,SERS		1304.35	42		021572.40
CT0110%BU,48□,FPK38+.12,20		22053.14	80	060012.15 70	021573.00

SIC,SEN		1310.00	80		021574.00
BRGZ,SERS		1304.35	42		021574.40
	- EXP MEM + EXP ACC			F219P3	
DL%U#	FPK5	22012.44	60		021575.00
C0011%BU	48#	22045.14	80	060012.06	021575.40
D+%N#	FPK39	22054.04	20		021576.40
CT0110%BU	48#	22045.14	80	060042.15	021577.00
SIC,SEN		1310.00	80		021600.00
BRGZ,SERS		1304.35	42		021600.40
CT0110%BU	48#	22045.14	80	060012.15	021601.00
SIC,SEN		1310.00	80		021602.00
BRGZ,SERS		1304.35	42		021602.40

19-42

	-ADD DOUBLE TO MAGNITUDE CHECK				
	- EXP MEM + EXP ACC + + 48			F219Q1	
DL%U#	FPK38	22053.44	60		021603.00
C0011%BU	48#	22053.14	80	060012.06	021603.40
D+MG%N#	FPK35	22050.06	20		021604.40
CT0110%BU	48#	22141.14	80	060042.15	021605.00
SIC,SEN		1310.00	80		021606.00
BRGZ,SERS		1304.35	42		021606.40
CT0110%BU	48#	22045.14	80	060012.15	021607.00
SIC,SEN		1310.00	80		021610.00
BRGZ,SERS		1304.35	42		021610.40

	- EXP MEM UNEQUAL TO EXP ACC			F219Q2	
DL%U#	FPK16	22025.44	60		021611.00
C0011%BU	48#	22336.14	80	060012.06	021611.40
D+MG%N#	FPK18	22027.06	20		021612.40
CT0110%BU	12#	22144.00	80	014072.15	021613.00
SIC,SEN		1310.00	80		021614.00
BRGZ,SERS		1304.35	42		021614.40
CT0110%BU	48#	22045.14	80	060042.15	021615.00
SIC,SEN		1310.00	80		021616.00
BRGZ,SERS		1304.35	42		021616.40
CT0110%BU	48#	22045.14	80	060012.15	021617.00
SIC,SEN		1310.00	80		021620.00
BRGZ,SERS		1304.35	42		021620.40

	-LOAD DOUBLE CHECK				
	- 0 % LEADING 0 S % 48			FB19R1	
DL%N#	FPK16	22025.04	60		021621.00
CT0110%BU	60#	22026.00	80	074042.15	021621.40
SIC,SEN		1310.00	80		021622.40
BRGZ,SERS		1304.35	42		021623.00
CT0110%BU	48#	22342.14	80	060012.15	021623.40
SIC,SEN		1310.00	80		021624.40
BRGZ,SERS		1304.35	42		021625.00

	- 48 LEADING 0 S			F219R2	
DL%N#	FPK31	22044.04	60		021625.40
CT0110%BU	60#	22044.00	80	074042.15	021626.00
SIC,SEN		1310.00	80		021627.00
BRGZ,SERS		1304.35	42		021627.40
CT0110%BU	48#	22044.14	80	060012.15	021630.00
SIC,SEN		1310.00	80		021631.00
BRGZ,SERS		1304.35	42		021631.40

	-LOAD DOUBLE WITH FLAG CHECK				
	- 0 % LEADING 0 S % 48			F219S	
DLWF%N#	FPK56	22075.06	60		021632.00
CT0110%BU	60#	22117.00	80	074042.15	021632.40
SIC,SEN		1310.00	80		021633.40
BRGZ,SERS		1304.35	42		021634.00
CT0110%BU	48#	22077.14	80	060012.15	021634.40
SIC,SEN		1310.00	80		021635.40
BRGZ,SERS		1304.35	42		021636.00

SIC,SEN		1310.00	80		021636.40
	BZTF,SERS-ERROR IF DATA FLAG INDS.OFF	1304.21	CO		021637.00
SIC,SEN		1310.00	80		021637.40
	BZUF,SERS	1304.22	40		021640.00
SIC,SEN		1310.00	80		021640.40
	BZVF,SERS	1304.22	CO		021641.00
-STORE ROUNDED CHECK					
B,\$+.32-				F219T	21642.10 00
DL%U□,FPK87		22125.44	60		021642.00
C0011%BU,48□,FPK32+.12,20		22045.14	80	060012.06 70	021642.40
SRD%N□,ROS		22355.02	E0		021643.40
L%BU□,FK3		22145.00	80	000000.20 50	021644.00
CT0110%BU,60□,ROS,4-TEST NOT AFFECTED BY NOISY MODE		22355.00	80	074002.15 70	021645.00
SIC,SEN		1310.00	80		021646.00
	BRGZ,SERS	1304.35	42		021646.40
-STORE LOW ORDER CHECK					
	- EXP ACC □ 96			F219U1	
DL%U□,FPK28		22041.44	60		021647.00
C0011%BU,48□,FPK87+.12,20		22125.14	80	060012.06 70	021647.40
SLO%N□,ROS		22355.04	E0		021650.40
L%BU,64□,FK4		22146.00	80	000000.20 50	021651.00
CT0110%BU,60□,ROS,4		22355.00	80	074002.15 70	021652.00
SIC,SEN		1310.00	80		021653.00
	BRGZ,SERS	1304.35	42		021653.40
	- EXP ACC % 48			F219U2	
DL%U□,FPK25		22036.44	60		021654.00
C0011%BU,48□,FPK27+.12,20		22040.14	80	060012.06 70	021654.40
SLO%N□,ROS		22355.04	E0		021655.40
L%BU,64□,FPK45		22062.00	80	000000.20 50	021656.00
CT0110%BU,60□,ROS,4		22355.00	80	074002.15 70	021657.00
SIC,SEN		1310.00	80		021660.00
	BRGZ,SERS	1304.35	42		021660.40
-MULTIPLY DOUBLE CHECK					
B,\$+.32-				F219V	21661.50 00
L%U□,FPK52		22071.40	60		021661.40
D*%N□,FK5		22147.05	A0		021662.00
CT0110%BU,60□,FK6,68		22150.00	80	074042.15 70	021662.40
SIC,SEN		1310.00	80		021663.40
	BRGZ,SERS	1304.35	42		021664.00
CT0110%BU,48□,FK7+.12,20		22151.14	80	060012.15 70	021664.40
SIC,SEN		1310.00	80		021665.40
	BRGZ,SERS	1304.35	42		021666.00
-LOAD FACTOR CHECK					
B,\$+.32-				F219W	21667.10 00
LFT%N□,FPK77		22120.04	A0		021667.00
L%BU□,FK122		22333.00	80	000000.20 50	021667.40
CT0110%BU,60□,14.0,4		16.00	80	074002.15 70	021670.40
SIC,SEN		1310.00	80		021671.40
	BRGZ,SERS	1304.35	42		021672.00
-MULTIPLY AND ADD CHECK					
B,\$+.32-				F219X	21673.10 00
DL%U□,FK8		22152.44	60		021673.00
C0011%BU,48□,FK9+.12,20		22153.14	80	060012.06 70	021673.40
LFT%U□,FPK52		22071.44	A0		021674.40
*+%N□,FK5		22147.03	A0		021675.00
CT0110%BU,60□,FK10,68		22154.00	80	074042.15 70	021675.40
SIC,SEN		1310.00	80		021676.40
	BRGZ,SERS	1304.35	42		021677.00
CT0110%BU,48□,FK10+.12,20		22154.14	80	060012.15 70	021677.40
SIC,SEN		1310.00	80		021700.40
	BRGZ,SERS	1304.35	42		021701.00
-DIVIDE DOUBLE CHECK					
B,\$+.32-				F219Y	21702.10 00
L%U□,FK137		22352.40	60		021702.00
C0011%BU,48□,FK58+.12,20		22234.14	80	060012.06 70	021702.40
D/%N□,FK132		22345.05	E0		021703.40

CT0110%BU,60,FK138,68		22353.00	80	074042.15	70	021704.00
SIC,SEN		1310.00	80			021705.00
BRGZ,SERS		1304.35	42			021705.40
CT0110%BU,48,FPK80.12,20	- CHECK 49TH QUOTIENT BIT	22121.14	80	060012.15	70	021706.00
SIC,SEN		1310.00	80			021707.00
BRGZ,SERS	- NOISY MODE FAILED IF 49TH QUOT	1304.35	42			021707.40
	- BIT NOT A ONE					
L%BU,FK139	-CHECK THE REMAINDER.	22354.00	80	000000.20	50	021710.00
CT0110%BU,60,SRM,4		15.00	80	074002.15	70	021711.00
SIC,SEN		1310.00	80			021712.00
BRGZ,SERS		1304.35	42			021712.40
-ADD FRACTION CHECK						
B,s+.32-	F219Z	21713.50	00			021713.00
DL%U,FPK11		22020.44	60			021713.40
C0011%BU,48,FPK32+.12,20		22045.14	80	060012.06	70	021714.00
F+%N,FPK13		22022.05	20			021715.00
CT0110%BU,12,FPK0,116		22005.00	80	014072.15	70	021715.40
SIC,SEN		1310.00	80			021716.40
BRGZ,SERS		1304.35	42			021717.00
CT0110%BU,48,FPK1+.12,68		22006.14	80	060042.15	70	021717.40
SIC,SEN		1310.00	80			021720.40
BRGZ,SERS		1304.35	42			021721.00
CT0110%BU,48,FPK1+.12,20		22006.14	80	060012.15	70	021721.40
SIC,SEN		1310.00	80			021722.40
BRGZ,SERS		1304.35	42			021723.00
-SHIFT FRACTION CHECK						
B,s+.32-	F219A1A	21724.10	00			021723.40
DL%U,FPK87		22125.44	60			021724.00
SHF%N,%8,000200		40000.07	20			021724.40
CT0110%BU,60,FPK67,68	- TEST NOT AFFECTED BY NOISY MODE	22107.00	80	074042.15	70	021725.00
SIC,SEN		1310.00	80			021726.00
BRGZ,SERS		1304.35	42			021726.40
CT0110%BU,48,FPK0+.12,20	- NOT AFFECTED BY NOISY MODE	22005.14	80	060012.15	70	021727.00
SIC,SEN		1310.00	80			021730.00
BRGZ,SERS		1304.35	42			021730.40
-ADD EXPONENT CHECK						
B,s+.32-	F219B1A	21731.50	00			021731.00
DL%U,FPK77		22120.44	60			021731.40
C0011%BU,48,FPK32+.12,20		22045.14	80	060012.06	70	021732.00
E+%N,FPK71		22112.05	60			021733.00
CT0110%BU,60,FK130,68		22343.00	80	074042.15	70	021733.40
SIC,SEN		1310.00	80			021734.40
BRGZ,SERS		1304.35	42			021735.00
CT0110%BU,48,FPK62+.12,20		22103.14	80	060012.15	70	021735.40
SIC,SEN		1310.00	80			021736.40
BRGZ,SERS		1304.35	42			021737.00
-ADD EXPONENT IMMEDIATE CHECK						
B,s+.32-	F219C1A	21740.10	00			021737.40
DL%U,FPK77		22120.44	60			021740.00
C0011%BU,48,FPK32+.12,20		22045.14	80	060012.06	70	021740.40
E+I%N,%8,0005		1200.07	60			021741.40
CT0110%BU,60,FK11,68		22155.00	80	074042.15	70	021742.00
SIC,SEN		1310.00	80			021743.00
BRGZ,SERS		1304.35	42			021743.40
CT0110%BU,48,FK11+.12,20		22155.14	80	060012.15	70	021744.00
SIC,SEN		1310.00	80			021745.00
BRGZ,SERS		1304.35	42			021745.40
BD,ROSA		22357.04	00			021746.00
CNOP		0.30	00			021746.40

FPK0	%8HDD%BUH, 0	000	000	000	000	000	000	000	000	000000000000000000000000	022005.00
FPK1	%8HDD%BUH, 1	777	777	777	777	777	777	777	777	177777777777777777777777	022006.00
FPK2	%8HDD%BUH, 1	777	777	777	777	777	777	777	760	177777777777777777777760	022007.00
FPK3	%8HDD%BUH, 0	000	125	252	525	252	525	252	240	000012525252525252525240	022010.00 ←
FPK4	%8HDD%BUH, 0	000	452	525	252	525	252	520		000045252525252525252520	022011.00
FPK5	%8HDD%BUH, 0	001	025	252	525	252	525	240		000102525252525252525240	022012.00
FPK6	%8HDD%BUH, 0	000	125	252	525	252	525	200		000012525252525252525200	022013.00
FPK7	%8HDD%BUH, 0	001	412	525	252	525	252	520		000141252525252525252520	022014.00 —
FPK8	%8HDD%BUH, 0	002	005	252	525	252	525	240		000200525252525252525240	022015.00
FPK9	%8HDD%BUH, 0	000	125	252	525	252	525	000		000012525252525252525000	022016.00
FPK10	%8HDD%BUH, 0	002	402	525	252	525	252	520		000240252525252525252520	022017.00
FPK11	%8HDD%BUH, 0	003	001	252	525	252	525	240		000300125252525252525240	022020.00
FPK12	%8HDD%BUH, 0	000	125	252	525	252	524	000		000012525252525252524000	022021.00
FPK13	%8HDD%BUH, 0	003	400	525	252	525	252	520		000340052525252525252520	022022.00
FPK14	%8HDD%BUH, 0	006	400	005	252	525	252	520		000640000525252525252520	022023.00
FPK15	%8HDD%BUH, 0	000	125	252	525	252	400	000		000012525252525252400000	022024.00
FPK16	%8HDD%BUH, 0	011	400	000	052	525	252	520		→ 001140000005252525252520	022025.00
FPK17	%8HDD%BUH, 0	000	125	252	525	240	000	000		→ 000012525252525240000000	022026.00
FPK18	%8HDD%BUH, 0	003	176	525	252	525	252	520		000317652525252525252520	022027.00 —
FPK19	%8HDD%BUH, 0	000	525	252	525	252	525	240		000052525252525252525240	022030.00
FPK20	%8HDD%BUH, 0	015	177	777	777	525	252	520		001517777777752525252520	022031.00
FPK21	%8HDD%BUH, 0	031	177	777	777	777	777	767		0031177777777777777767	022032.00 ←
FPK22	%8HDD%BUH, 0	000	577	777	777	777	777	760		0000577777777777777760	022033.00
FPK23	%8HDD%BUH, 0	000	525	252	525	252	525	250		000052525252525252525250	022034.00
FPK24	%8HDD%BUH, 0	000	452	525	252	525	252	530		000045252525252525252530	022035.00
FPK25	%8HDD%BUH, 0	001	560	000	000	000	000	000		000156000000000000000000	022036.00
FPK26	%8HDD%BUH, 1	777	577	777	777	777	777	760		1777577777777777777760	022037.00
FPK27	%8HDD%BUH, 1	777	677	777	777	777	777	760		1777677777777777777760	022040.00
FPK28	%8HDD%BUH, 0	200	177	777	777	777	777	760		0200177777777777777760	022041.00
FPK29	%8HDD%BUH, 0	000	400	000	000	000	000	000		000040000000000000000000	022042.00
FPK30	%8HDD%BUH, 0	000	400	000	000	000	000	010		000040000000000000000010	022043.00
FPK31	%8HDD%BUH, 0	031	000	000	000	000	000	000		003100000000000000000000	022044.00
FPK32	%8HDD%BUH, 0	001	177	777	777	777	777	760		0001177777777777777760	022045.00
FPK33	%8HDD%BUH, 0	001	177	777	777	777	777	740		0001177777777777777740	022046.00
FPK34	%8HDD%BUH, 0	001	000	000	000	000	000	020		000100000000000000000020	022047.00
FPK35	%8HDD%BUH, 0	001	125	252	525	252	525	240		000112525252525252525240	022050.00
FPK36	%8HDD%BUH, 0	001	052	525	252	525	252	500		000105252525252525252500	022051.00
FPK37	%8HDD%BUH, 0	031	125	252	525	252	525	240		003112525252525252525240	022052.00
FPK38	%8HDD%BUH, 0	031	052	525	252	525	252	520		003105252525252525252520	022053.00
FPK39	%8HDD%BUH, 0	001	052	525	252	525	252	520		000105252525252525252520	022054.00
FPK40	%8HDD%BUH, 0	001	052	525	252	525	252	530		000105252525252525252530	022055.00
FPK41	%8HDD%BUH, 0	001	040	000	000	000	000	000		000104000000000000000000	022056.00
FPK42	%8HDD%BUH, 0	001	460	000	000	000	000	000		000146000000000000000000	022057.00
FPK43	%8HDD%BUH, 0	031	125	252	525	252	525	250		003112525252525252525250	022060.00
FPK44	%8HDD%BUH, 0	150	177	777	777	777	777	760		0150177777777777777760	022061.00
FPK45	%8HDD%BUH, 0	027	377	777	777	777	777	760		0027377777777777777760	022062.00
FPK46	%8HDD%BUH, 0	057	377	777	777	777	777	760		0057377777777777777760	022063.00
FPK47	%8HDD%BUH, 0	200	377	777	777	777	777	760		0200377777777777777760	022064.00
FPK48	%8HDD%BUH, 1	577	777	777	777	777	777	770		1577777777777777777770	022065.00
FPK49	%8HDD%BUH, 0	026	377	777	777	777	777	760		0026377777777777777760	022066.00
FPK50	%8HDD%BUH, 0	031	377	777	777	777	777	760		0031377777777777777760	022067.00
FPK51	%8HDD%BUH, 0	003	201	252	525	252	525	240		000320125252525252525240	022070.00
FPK52	%8HDD%BUH, 0	001	024	713	560	247	135	620		0001024713560247135620	022071.00
FPK53	%8HDD%BUH, 0	000	400	000	000	000	000	040		000040000000000000000040	022072.00
FPK54	%8HDD%BUH, 0	001	451	627	340	516	273	440		0001451627340516273440	022073.00
FPK55	%8HDD%BUH, 0	001	024	713	560	247	135	630		0001024713560247135630	022074.00
FPK56	%8HDD%BUH, 0	002	024	713	560	247	135	627		0002024713560247135627	022075.00
FPK57	%8HDD%BUH, 0	001	523	456	701	234	567	100		0001523456701234567100	022076.00
FPK58	%8HDD%BUH, 0	000	400	000	000	000	000	070		000040000000000000000070	022077.00
FPK59	%8HDD%BUH, 1	577	600	000	000	000	000	000		157760000000000000000000	022100.00
FPK60	%8HDD%BUH, 0	001	526	150	437	261	504	320		0001526150437261504320	022101.00
FPK61	%8HDD%BUH, 0	075	252	525	252	525	252	530		007525252525252525252530	022102.00

32 456 8421
 2
 45
 22 16 8421
 32 456 8421

FK102	%8DD%BU, 1	775 523 456 701 234 567 100	1775523456701234567100	022307.00
FK103	%8DD%BU, 0	001 476 543 120 765 431 260	0001476543120765431260	022310.00
FK104	%8DD%BU, 0	003 640 000 000 000 000 010	000364000000000000010	022311.00
FK105	%8DD%BU, 0	030 000 000 000 000 000 000	003000000000000000000	022312.00
FK106	%8DD%BU, 0	027 600 000 000 000 000 000	002760000000000000000	022313.00
FK107	%8DD%BU, 0	777 700 000 000 000 000 000	077770000000000000000	022314.00
FK108	%8DD%BU, 1	000 500 000 000 000 000 000	100050000000000000000	022315.00
FK109	%8DD%BU, 1	777 404 000 000 000 000 000	177740400000000000000	022316.00
FK110	%8DD%BU, 1	577 620 000 000 000 000 000	157762000000000000000	022317.00
FK111	%8DD%BU, 0	777 625 777 252 525 777 250	0777625777252525777250	022320.00
FK112	%8DD%BU, 1	030 723 456 701 234 567 100	1030723456701234567100	022321.00
FK113	%8DD%BU, 0	003 000 000 000 000 000 027	000300000000000000027	022322.00
FK114	%8DD%BU, 0	031 000 000 000 000 000 020	003100000000000000020	022323.00
FK115	%8DD%BU, 0	030 000 000 000 000 000 040	003000000000000000040	022324.00
FK116	%8DD%BU, 0	002 117 777 777 777 777 760	000211777777777777760	022325.00
FK117	%8DD%BU, 0	016 777 777 777 777 777 760	001677777777777777760	022326.00
FK118	%8DD%BU, 0	000 523 456 701 234 567 100	0000523456701234567100	022327.00
FK119	%8DD%BU, 0	001 052 525 252 525 252 530	0001052525252525252530	022330.00
FK120	%8DD%BU, 0	027 200 000 000 000 000 000	002720000000000000000	022331.00
FK121	%8DD%BU, 0	011 000 000 000 000 000 000	001100000000000000000	022332.00
FK122	%8DD%BU, 0	025 777 777 777 777 777 760	002577777777777777760	022333.00
FK123	%8DD%BU, 0	024 777 777 777 777 777 760	002477777777777777760	022334.00
FK124	%8DD%BU, 0	002 417 777 777 777 777 760	000241777777777777760	022335.00
FK125	%8DD%BU, 0	003 052 527 777 777 777 760	000305252777777777760	022336.00
FK126	%8DD%BU, 1	577 420 000 000 000 000 000	157742000000000000000	022337.00
FK127	%8DD%BU, 1	777 604 000 000 000 000 000	177760400000000000000	022340.00
FK129	%8DD%BU, 0	001 300 000 000 000 000 000	000130000000000000000	022341.00
FK128	%8DD%BU, 0	000 000 000 000 037 777 760	000000000000003777760	022342.00
FK130	%8DD%BU, 0	002 577 777 777 777 777 760	000257777777777777760	022343.00
FK131	%8DD%BU, 0	032 000 000 000 000 001 760	0032000000000000001760	022344.00
FK132	%8DD%BU, 0	003 077 000 000 000 000 000	000307700000000000000	022345.00
FK133	%8DD%BU, 0	003 101 010 101 010 101 000	0003101010101010101000	022346.00
FK134	%8DD%BU, 0	000 100 000 000 000 000 000	000010000000000000000	022347.00
FK135	%8DD%BU, 0	707 070 707 070 670 707 070	0707070707070670707070	022350.00
FK136	%8DD%BU, 0	343 525 252 525 237 777 760	034352525252523777760	022351.00
FK137	%8DD%BU, 0	034 400 000 000 000 000 000	003440000000000000000	022352.00
FK138	%8DD%BU, 0	002 501 010 101 010 100 770	0002501010101010100770	022353.00
FK139	%8DD%BU, 0	023 374 767 676 767 677 000	0023374767676767677000	022354.00
	CNOP			
ROS	DR%BU,64,1		1.00	022355.00
	NOP		0.30 00	022356.00
	NOP		0.30 00	022356.40
ROSA	NOP		0.30 00	022357.00
	CNOP		0.30 00	022357.40
	BNMZ,s+.32		22360.77 C6	022360.00
	NOP		0.30 00	022360.40
	BD,s+1.0		22362.04 00	022361.00
	B,FNYM1		21446.50 00	022361.40
	SIC,SEN0+.32		1311.40 80	022362.00
	B,SSW		1301.10 00	022362.40

-PAU GATES ROUTINE

- THIS ROUTINE TESTS THE SEVERAL GATES AND REGISTERS
 - LOCATED IN PANELS A1, A2, A3, A4 AND B1 OF FRAME 25,
 - AND ALL OF FRAMES 26 AND 27. ONLY THE FRACTION OPERATIONS
 - ARE CHECKED. SAU HANDLING OF EXPONENTS IS NOT CHECKED.
 - INCLUDED IN THE TESTS FOR THE GATES ARE TESTS OF
 - THE F REGISTER AND SHIFT CONTROL REGISTER. THE SHIFT
 - COUNTER REGISTER AND ADDER ARE CHECKED ONLY AS THEY
 - PARTICIPATE IN OPERATIONS OTHER THAN DIVIDE.
 - THE COMMENT AT EACH ERROR -SERS- EXIT IDENTIFIES
 - THE OPERATION WHICH WAS BEING TESTED AT THE TIME THE ERROR
 - WAS DISCOVERED.

XYZA	BD,\$+.32		22363.44	00			022363.00
	Z,\$X12		34.22	00			022363.40
	L%BU,FPGR		22000.00	80	000000.20	50	022364.00
	ST%BU,DPET13		1437.00	80	000000.20	D0	022365.00
	SIC,RET1		1306.40	80			022366.00
	B,IDE1		1443.10	00			022366.40
SHF0	LX,\$X1,XA		24117.02	10			022367.00
	L%BU,64,WRDA,\$X1,64		24120.00	81	000040.20	50	022367.40
	+%BU,64,WRDB,\$X1,0		24122.00	81	000000.20	10	022370.40
	SHF%U,0		0.47	20			022371.40
	CT0110%BU,52,WRDA+.12,\$X1,64		24120.14	81	064040.15	70	022372.00
	BZB,\$RZ,CHKSZ	-2	13.71	80	023733.34	00	022373.00
	CT0110%BU,44,WRDB,\$X1,20		24122.00	81	054012.15	70	022374.00
	BZB,\$RZ,CHKSZ	-2	13.71	80	023733.34	00	022375.00
	CBR+,\$X1,SHF0		22367.43	4C			022376.00
	B,\$+1.		22377.50	00			022376.40
	B,SHF0		22367.50	00			022377.00
	SIC,SEN0+.32		1311.40	80			022377.40
	B,SSW		1301.10	00			022400.00
SHFR1	L%BU,64,WRDA,\$X1,64		24120.00	81	000040.20	50	022400.40
	+%BU,64,WRDB,\$X1,0		24122.00	81	000000.20	10	022401.40
	SHF%U,-1		300.47	20			022402.40
	CT0110%BU,52,WRDAR1+.12,\$X1,64		24124.14	81	064040.15	70	022403.00
	BZB,\$RZ,PE4A	-4	13.71	80	022405.74	00	022404.00
	B,\$+1.32		22406.50	00			022405.00
PE4A	SIC,SEN		1310.00	80			022405.40
	B,SERS	-R1 SHIFT-HI 52 BITS OR EXP DEC	1304.10	00			022406.00
	CT0110%BU,44,WRDBR1,\$X1,20		24126.00	81	054012.15	70	022406.40
	BZB,\$RZ,PE4B		13.71	80	022411.34	00	022407.40
	B,\$+1.32		22412.10	00			022410.40
PE4B	SIC,SEN		1310.00	80			022411.00
	B,SERS	-R1 SHIFT-LOW 44 BITS	1304.10	00			022411.40
	CBR+,\$X1,SHFR1		22400.43	4C			022412.00
	B,\$+1.		22413.50	00			022412.40
	B,SHFR1		22400.50	00			022413.00
	SIC,SEN0+.32		1311.40	80			022413.40
	B,SSW		1301.10	00			022414.00
SHFR2	L%BU,64,WRDA,\$X1,64		24120.00	81	000040.20	50	022414.40
	+%BU,64,WRDB,\$X1,0		24122.00	81	000000.20	10	022415.40
	SHF%U,-2		500.47	20			022416.40
	CT0110%BU,52,WRDAR2+.12,\$X1,64		24130.14	81	064040.15	70	022417.00
	BZB,\$RZ,PE6A	-6	13.71	80	022421.74	00	022420.00
	B,\$+1.32		22422.50	00			022421.00
PE6A	SIC,SEN		1310.00	80			022421.40
	B,SERS	-R2 SHIFT-HI 52 BITS OR EXP DEC	1304.10	00			022422.00
	CT0110%BU,44,WRDBR2,\$X1,20		24132.00	81	054012.15	70	022422.40
	BZB,\$RZ,PE6B		13.71	80	022425.34	00	022423.40
	B,\$+1.32		22426.10	00			022424.40

PE6B	SIC,SEN		1310.00	80			022425.00
	B,SERS	-R2 SHIFT-LOW 44 BITS	1304.10	00			022425.40
	CBR+,\$X1,SHFR2	-6	22414.43	4C			022426.00
	B,\$+1.		22427.50	00			022426.40
	B,SHFR2		22414.50	00			022427.00
	SIC,SEN0+.32		1311.40	80			022427.40
	B,SSW		1301.10	00			022430.00
SHFR3	L%BU,64□,WRDA%\$X1□,64		24120.00	81	000040.20	50	022430.40
	+%BU,64□,WRDB%\$X1□,0		24122.00	81	000000.20	10	022431.40
	SHF%U□,-3		700.47	20			022432.40
	CT0110%BU,52□,WRDAR3+.12%\$X1□,64		24134.14	81	064040.15	70	022433.00
	BZB,\$RZ,PE8A	-6	13.71	80	022435.74	00	022434.00
	B,\$+1.32		22436.50	00			022435.00
PE8A	SIC,SEN		1310.00	80			022435.40
	B,SERS	-R3 SHIFT-HI 52 BITS OR EXP DEC	1304.10	00			022436.00
	CT0110%BU,44□,WRDBR3%\$X1□,20		24136.00	81	054012.15	70	022436.40
	BZB,\$RZ,PE8B	-8	13.71	80	022441.34	00	022437.40
	B,\$+1.32		22442.10	00			022440.40
PE8B	SIC,SEN		1310.00	80			022441.00
	B,SERS	-R3 SHIFT-LOW 44 BITS	1304.10	00			022441.40
	CBR+,\$X1,SHFR3		22430.43	4C			022442.00
	B,\$+1.		22443.50	00			022442.40
	B,SHFR3		22430.50	00			022443.00
	SIC,SEN0+.32		1311.40	80			022443.40
	B,SSW		1301.10	00			022444.00
SHFL1	L%BU,64□,WRDA%\$X1□,64		24120.00	81	000040.20	50	022444.40
	+%BU,64□,WRDB%\$X1□,0		24122.00	81	000000.20	10	022445.40
	SHF%U□,1		200.47	20			022446.40
	CT0110%BU,52□,WRDAL1+.12%\$X1□,64		24144.14	81	064040.15	70	022447.00
	BZB,\$RZ,PE10A	-10	13.71	80	022451.74	00	022450.00
	B,\$+1.32		22452.50	00			022451.00
PE10A	SIC,SEN		1310.00	80			022451.40
	B,SERS	-L1 SHIFT-HI 52 BITS OR EXP DEC	1304.10	00			022452.00
	CT0110%BU,44□,WRDBL1%\$X1□,20		24146.00	81	054012.15	70	022452.40
	BZB,\$RZ,PE10B	-10	13.71	80	022455.34	00	022453.40
	B,\$+1.32		22456.10	00			022454.40
PE10B	SIC,SEN		1310.00	80			022455.00
	B,SERS	-L1 SHIFT-LOW 44 BITS	1304.10	00			022455.40
	CBR+,\$X1,SHFL1		22444.43	4C			022456.00
	B,\$+1.		22457.50	00			022456.40
	B,SHFL1		22444.50	00			022457.00
	SIC,SEN0+.32		1311.40	80			022457.40
	B,SSW		1301.10	00			022460.00
SHFL2	L%BU,64□,WRDA%\$X1□,64		24120.00	81	000040.20	50	022460.40
	+%BU,64□,WRDB%\$X1□,0		24122.00	81	000000.20	10	022461.40
	SHF%U□,2		400.47	20			022462.40
	CT0110%BU,52□,WRDAL2+.12%\$X1□,64		24150.14	81	064040.15	70	022463.00
	BZB,\$RZ,PE12A	-12	13.71	80	022465.74	00	022464.00
	B,\$+1.32		22466.50	00			022465.00
PE12A	SIC,SEN		1310.00	80			022465.40
	B,SERS	-L2 SHIFT HI 52 BITS OR EXP DEC	1304.10	00			022466.00
	CT0110%BU,44□,WRDBL2%\$X1□,20		24152.00	81	054012.15	70	022466.40
	BZB,\$RZ,PE12B	-12	13.71	80	022471.34	00	022467.40
	B,\$+1.32		22472.10	00			022470.40
PE12B	SIC,SEN		1310.00	80			022471.00
	B,SERS	-L2 SHIFT-LOW 44 BITS	1304.10	00			022471.40
	CBR+,\$X1,SHFL2		22460.43	4C			022472.00
	B,\$+1.		22473.50	00			022472.40
	B,SHFL2		22460.50	00			022473.00
	SIC,SEN0+.32		1311.40	80			022473.40
	B,SSW		1301.10	00			022474.00
SHFL3	L%BU,64□,WRDA%\$X1□,64		24120.00	81	000040.20	50	022474.40
	+%BU,64□,WRDB%\$X1□,0		24122.00	81	000000.20	10	022475.40
	SHF%U□,3		600.47	20			022476.40
	CT0110%BU,52□,WRDAL3+.12%\$X1□,64		24154.14	81	064040.15	70	022477.00
	BZB,\$RZ,PE14A	-14	13.71	80	022501.74	00	022500.00

	B,\$+1.32		22502.50	00		022501.00
PE14A	SIC,SEN		1310.00	80		022501.40
	B,SERS	-L3 SHIFT-HI 52 BITS OR EXP DEC	1304.10	00		022502.00
	CT0110%BU,44,WRDBL3%\$X1,20		24156.00	81	054012.15 70	022502.40
	BZB,\$RZ,PE14B	-14	13.71	80	022505.34 00	022503.40
	B,\$+1.32		22506.10	00		022504.40
PE14B	SIC,SEN		1310.00	80		022505.00
	B,SERS	-L3 SHIFT-LOW 44 BITS	1304.10	00		022505.40
	CBR+,\$X1,SHFL3		22474.43	4C		022506.00
	B,\$+1.		22507.50	00		022506.40
	B,SHFL3		22474.50	00		022507.00
	SIC,SEN0+.32		1311.40	80		022507.40
	B,SSW		1301.10	00		022510.00
SHFL4	L%BU,64,WRDA%\$X1,64		24120.00	81	000040.20 50	022510.40
	+%BU,64,WRDB%\$X1,0		24122.00	81	000000.20 10	022511.40
	SHF%U,4		1000.47	20		022512.40
	CT0110%BU,52,WRDAL4+.12%\$X1,64		24160.14	81	064040.15 70	022513.00
	BZB,\$RZ,CHKL4		13.71	80	023712.34 00	022514.00
	CT0110%BU,44,WRDBL4%\$X1,20		24162.00	81	054012.15 70	022515.00
	BZB,\$RZ,CHKL4		13.71	80	023712.34 00	022516.00
	CBR+,\$X1,SHFL4		22510.43	4C		022517.00
	B,\$+1.		22520.50	00		022517.40
	B,SHFL4		22510.50	00		022520.00
	SIC,SEN0+.32		1311.40	80		022520.40
	B,SSW		1301.10	00		022521.00
SHFR4	L%BU,64,WRDA%\$X1,64		24120.00	81	000040.20 50	022521.40
	+%BU,64,WRDB%\$X1,0		24122.00	81	000000.20 10	022522.40
	SHF%U,-4		1100.47	20		022523.40
	CT0110%BU,52,WRDAR4+.12%\$X1,64		24140.14	81	064040.15 70	022524.00
	BZB,\$RZ,PE18A	-18	13.71	80	022526.74 00	022525.00
	B,\$+1.32		22527.50	00		022526.00
PE18A	SIC,SEN		1310.00	80		022526.40
	B,SERS	-R4 SHIFT-HI 52 BITS OR EXP DEC	1304.10	00		022527.00
	CT0110%BU,44,WRDBR4%\$X1,20		24142.00	81	054012.15 70	022527.40
	BZB,\$RZ,PE18B	-18	13.71	80	022532.34 00	022530.40
	B,\$+1.32		22533.10	00		022531.40
PE18B	SIC,SEN		1310.00	80		022532.00
	B,SERS	-R4 SHIFT-LOW 44 BITS	1304.10	00		022532.40
	CBR+,\$X1,SHFR4		22521.43	4C		022533.00
	B,\$+1.		22534.50	00		022533.40
	B,SHFR4		22521.50	00		022534.00
	SIC,SEN0+.32		1311.40	80		022534.40
	B,SSW		1301.10	00		022535.00
LDFSHF	L%U,WRDA%\$X1		24120.40	61		022535.40
	CT0110%BU,48,WRDA+.12%\$X1,68		24120.14	81	060042.15 70	022536.00
	BZB,\$RZ,PE20	-20	13.71	80	022540.74 00	022537.00
	B,\$+1.32		22541.50	00		022540.00
PE20	SIC,SEN		1310.00	80		022540.40
	B,SERS	-GATE 33	1304.10	00		022541.00
	CBR+,\$X1,LDFSHF		22535.43	4C		022541.40
	B,\$+1.		22543.10	00		022542.00
	B,LDFSHF		22535.50	00		022542.40
	SIC,SEN0+.32		1311.40	80		022543.00
	B,SSW		1301.10	00		022543.40
ADDR1	L%BU,64,ADDR1,64		24164.00	80	000040.20 50	022544.00
	+%U,ADDR1C		24165.40	20		022545.00
	CT0110%BU,48,RESR1+.12,68		24166.14	80	060042.15 70	022545.40
	BZB,\$RZ,PE22R1	-22R1	13.71	80	022550.34 00	022546.40
	B,\$+1.32		22551.10	00		022547.40
PE22R1	SIC,SEN		1310.00	80		022550.00
	B,SERS	-R1 PRE SHIFT DECODE	1304.10	00		022550.40
ADDR2	L%BU,64,ADDR2,64		24164.00	80	000040.20 50	022551.00
	+%U,ADDR2C		24167.40	20		022552.00
	CT0110%BU,48,RESR2+.12,68		24170.14	80	060042.15 70	022552.40
	BZB,\$RZ,PE22R2	-22R2	13.71	80	022555.34 00	022553.40
	B,\$+1.32		22556.10	00		022554.40

PE22R2	SIC,SEN	B,SERS	-R2 PRE SHIFT DECODE	1310.00	80		022555.00
				1304.10	00		022555.40
ADDR3	L%BU,64,ADDR3			24164.00	80	000040.20 50	022556.00
	+%U,ADDR3C			24171.40	20		022557.00
	CT0110%BU,48,RESR3+.12,68			24172.14	80	060042.15 70	022557.40
	BZB,\$RZ,PE22R3		-22R3	13.71	80	022562.34 00	022560.40
	B,\$+1.32			22563.10	00		022561.40
PE22R3	SIC,SEN	B,SERS	-R3 PRE SHIFT DECODE	1310.00	80		022562.00
				1304.10	00		022562.40
ADDR4	L%BU,64,ADDR4			24164.00	80	000040.20 50	022563.00
	+%U,ADDR4C			24173.40	20		022564.00
	CT0110%BU,48,RESR4+.12,68			24174.14	80	060042.15 70	022564.40
	BZB,\$RZ,PE22R4		-22R4	13.71	80	022567.34 00	022565.40
	B,\$+1.32			22570.10	00		022566.40
PE22R4	SIC,SEN	B,SERS	-ZERO PRESHIFT OR SH GTR 3	1310.00	80		022567.00
				1304.10	00		022567.40
ADDR10	L%BU,64,ADDR10			24164.00	80	000040.20 50	022570.00
	+%U,ADDR10C			24175.40	20		022571.00
	CT0110%BU,48,RESR10+.12,68			24176.14	80	060042.15 70	022571.40
	BZB,\$RZ,PE22RT		-22R10	13.71	80	022574.34 00	022572.40
	B,\$+1.32			22575.10	00		022573.40
PE22RT	SIC,SEN	B,SERS	-COUNTER PRE SHIFT DECODING	1310.00	80		022574.00
				1304.10	00		022574.40
	B,\$+1.			22576.10	00		022575.00
	B,ADDR1			22544.10	00		022575.40
	SIC,SEN0+.32			1311.40	80		022576.00
		B,SSW		1301.10	00		022576.40
NRMR1	L%BU,64,NORR1,64			24177.00	80	000040.20 50	022577.00
	+%N,ADDR1C			24165.00	20		022600.00
	CT0110%BU,48,NRESR1+.12,68			24200.14	80	060042.15 70	022600.40
	BZB,\$RZ,PE26F		-26F	13.71	80	022603.34 00	022601.40
	B,\$+1.32			22604.10	00		022602.40
PE26F	SIC,SEN	B,SERS	-R1 NORM DEC OR R1 SHF 1 TO 2	1310.00	80		022603.00
				1304.10	00		022603.40
	CT0110%BU,12,NRESR1,116			24200.00	80	014072.15 70	022604.00
	BZB,\$RZ,PE26E		-26E	13.71	80	022606.74 00	022605.00
	B,\$+1.32			22607.50	00		022606.00
PE26E	SIC,SEN	B,SERS	-SH AMT REG OR EXP PATH	1310.00	80		022606.40
				1304.10	00		022607.00
NRMO	L%N,WRDA			24120.00	60		022607.40
	CT0110%BU,48,WRDA+.12,68			24120.14	80	060042.15 70	022610.00
	BZB,\$RZ,PE28F		-28F	13.71	80	022612.74 00	022611.00
	B,\$+1.32			22613.50	00		022612.00
PE28F	SIC,SEN	B,SERS	-ZERO NORM DEC	1310.00	80		022612.40
				1304.10	00		022613.00
	CT0110%BU,12,WRDA,116			24120.00	80	014072.15 70	022613.40
	BZB,\$RZ,PE28E		-28E	13.71	80	022616.34 00	022614.40
	B,\$+1.32			22617.10	00		022615.40
PE28E	SIC,SEN	B,SERS	-SH AMTREG OR EXP PATH	1310.00	80		022616.00
				1304.10	00		022616.40
NRML1	L%N,NORL1			24212.00	60		022617.00
	CT0110%BU,48,NRESL1+.12,68			24223.14	80	060042.15 70	022617.40
	BZB,\$RZ,PE30F		-30F	13.71	80	022622.34 00	022620.40
	B,\$+1.32			22623.10	00		022621.40
PE30F	SIC,SEN	B,SERS	-L1 NORM DECODE	1310.00	80		022622.00
				1304.10	00		022622.40
	CT0110%BU,12,NRESL1,116			24223.00	80	014072.15 70	022623.00
	BZB,\$RZ,PE30E		-30E	13.71	80	022625.74 00	022624.00
	B,\$+1.32			22626.50	00		022625.00
PE30E	SIC,SEN	B,SERS	-SH AMT REG OR EXP PATH	1310.00	80		022625.40
				1304.10	00		022626.00
NRML2	L%N,NORL2			24213.00	60		022626.40
	CT0110%BU,48,NRESL2+.12,68			24224.14	80	060042.15 70	022627.00
	BZB,\$RZ,PE32F			13.71	80	022631.74 00	022630.00
	B,\$+1.32			22632.50	00		022631.00
PE32F	SIC,SEN			1310.00	80		022631.40

	B,SERS	-L2 NORM DEC	1304.10	00			022632.00
	CT0110%BU,12H,NRESL2,116		24224.00	80	014072.15	70	022632.40
	BZB,\$RZ,PE32E	-32E	13.71	80	022635.34	00	022633.40
	B,\$+1.32		22636.10	00			022634.40
PE32E	SIC,SEN		1310.00	80			022635.00
	B,SERS		1304.10	00			022635.40
NRML3	L%N#,NORL3		24214.00	60			022636.00
	CT0110%BU,48H,NRESL3+.12,68		24225.14	80	060042.15	70	022636.40
	BZB,\$RZ,PE34F	-34F	13.71	80	022641.34	00	022637.40
	B,\$+1.32		22642.10	00			022640.40
PE34F	SIC,SEN		1310.00	80			022641.00
	B,SERS	-L3 NORM DEC	1304.10	00			022641.40
	CT0110%BU,12H,NRESL3,116		24225.00	80	014072.15	70	022642.00
	BZB,\$RZ,PE34E	-34E	13.71	80	022644.74	00	022643.00
	B,\$+1.32		22645.50	00			022644.00
PE34E	SIC,SEN		1310.00	80			022644.40
	B,SERS	-SH AMT REG OR EXP PATH	1304.10	00			022645.00
NRML4	L%N#,NORL4		24215.00	60			022645.40
	CT0110%BU,48H,NRESL4+.12,68		24226.14	80	060042.15	70	022646.00
	BZB,\$RZ,PE36F	-36F	13.71	80	022650.74	00	022647.00
	B,\$+1.32		22651.50	00			022650.00
PE36F	SIC,SEN		1310.00	80			022650.40
	B,SERS	-L4 NORM DEC	1304.10	00			022651.00
	CT0110%BU,12H,NRESL4,116		24226.00	80	014072.15	70	022651.40
	BZB,\$RZ,PE36E	-36E	13.71	80	022654.34	00	022652.40
	B,\$+1.32		22655.10	00			022653.40
PE36E	SIC,SEN		1310.00	80			022654.00
	B,SERS	-SH AMT REG OR EXP PATH	1304.10	00			022654.40
	B,\$+1.		22656.10	00			022655.00
	B,NRMR1		22577.10	00			022655.40
	SIC,SEN0+.32		1311.40	80			022656.00
	B,SSW		1301.10	00			022656.40
NRML5A	L%BU,48H,WRDA+.12,20		24120.14	80	060012.20	50	022657.00
	D+%N#,NORL5A		24216.04	20			022660.00
	CT0110%BU,52H,WRDA+.12,64		24120.14	80	064040.15	70	022660.40
	BZB,\$RZ,PE38FA	-38F	13.71	80	022663.34	00	022661.40
	B,\$+1.32		22664.10	00			022662.40
PE38FA	SIC,SEN		1310.00	80			022663.00
	B,SERS	-L5 SHIFT-HI 52 BITS-101-OR L5	1304.10	00			022663.40
		-NORM DEC					
	CT0110%BU,44H,WRDB+.4,20		24122.04	80	054012.15	70	022664.00
	BZB,\$RZ,PE38FB	-38F	13.71	80	022666.74	00	022665.00
	B,\$+1.32		22667.50	00			022666.00
PE38FB	SIC,SEN		1310.00	80			022666.40
	B,SERS	-L5 SHIFT-LOW 44 BITS 101	1304.10	00			022667.00
	CT0110%BU,12H,SMANR4,116		24205.00	80	014072.15	70	022667.40
	BZB,\$RZ,PE38EA	-38E	13.71	80	022672.34	00	022670.40
	B,\$+1.32		22673.10	00			022671.40
PE38EA	SIC,SEN		1310.00	80			022672.00
	B,SERS	-SH AMT REG OR EXP DEC	1304.10	00			022672.40
NRML5B	L%BU,48H,WRDA+.12,21		24120.14	80	060012.60	50	022673.00
	D+%N#,NORL5B		24217.04	20			022674.00
	CT0110%BU,51H,ADDR3C+.9,65		24171.11	80	063040.55	70	022674.40
	BZB,\$RZ,PE38FC	-38F	13.71	80	022677.34	00	022675.40
	B,\$+1.32		22700.10	00			022676.40
PE38FC	SIC,SEN		1310.00	80			022677.00
	B,SERS	-L5 SHIFT-HI 51 BITS-010	1304.10	00			022677.40
	CT0110%BU,45H,WRDB+.4,20		24122.04	80	055012.15	70	022700.00
	BZB,\$RZ,PE38FX		13.71	80	022702.74	00	022701.00
	B,\$+1.32		22703.50	00			022702.00
PE38FX	SIC,SEN		1310.00	80			022702.40
	B,SERS	-L5 SHIFT-LOW 45 BITS-010	1304.10	00			022703.00
	CT0110%BU,12H,SMANR4,116		24205.00	80	014072.15	70	022703.40
	BZB,\$RZ,PE38EB		13.71	80	022706.34	00	022704.40
	B,\$+1.32		22707.10	00			022705.40
PE38EB	SIC,SEN		1310.00	80			022706.00

	B,SERS	-SH AMT REG OR EXP DEC	1304.10	00		022706.40
	B,\$+1.		22710.10	00		022707.00
	B,NRML5A		22657.10	00		022707.40
	SIC,SENO+.32		1311.40	80		022710.00
	B,SSW		1301.10	00		022710.40
NRML6A	L%BU,49#,WRDA+.12,20		24120.14	80	061012.20 50	022711.00
	D+%N#,NORL6A		24232.04	20		022712.00
	CT0110%BU,52#,WRDA+.12,64		24120.14	80	064040.15 70	022712.40
	BZB,\$RZ,PE40FA	-40F	13.71	80	022715.34 00	022713.40
	B,\$+1.32		22716.10	00		022714.40
PE40FA	SIC,SEN		1310.00	80		022715.00
	B,SERS	-L6 SHIFT-HI 52 BITS-101-OR	1304.10	00		022715.40
		-L6 NORM DEC				
	CT0110%BU,44#,WRDB+.6,20		24122.06	80	054012.15 70	022716.00
	BZB,\$RZ,PE40FB	-40F	13.71	80	022720.74 00	022717.00
	B,\$+1.32		22721.50	00		022720.00
PE40FB	SIC,SEN		1310.00	80		022720.40
	B,SERS	-L6 SHIFT-LOW 44 BITS-101	1304.10	00		022721.00
	CT0110%BU,12#,RESR1+.2,116		24166.02	80	014072.15 70	022721.40
	BZB,\$RZ,PE40EA	-40E	13.71	80	022724.34 00	022722.40
	B,\$+1.32		22725.10	00		022723.40
PE40EA	SIC,SEN		1310.00	80		022724.00
	B,SERS	-SH AMT REG OR EXP PATH	1304.10	00		022724.40
NRML6B	L%BU,48#,WRDA+.12,20		24120.14	80	060012.20 50	022725.00
	D+%N#,NORL6B		24233.04	20		022726.00
	CT0110%BU,51#,ADDR3C+.9,65		24171.11	80	063040.55 70	022726.40
	BZB,\$RZ,PE40FC	-40F	13.71	80	022731.34 00	022727.40
	B,\$+1.32		22732.10	00		022730.40
PE40FC	SIC,SEN		1310.00	80		022731.00
	B,SERS	-L6 SHIFT-HI 51 BITS-010	1304.10	00		022731.40
	CT0110%BU,45#,WRDB+.4,20		24122.04	80	055012.15 70	022732.00
	BZB,\$RZ,PE40FD	-40F	13.71	80	022734.74 00	022733.00
	B,\$+1.32		22735.50	00		022734.00
PE40FD	SIC,SEN		1310.00	80		022734.40
	B,SERS	-L6 SHIFT-LOW 45 BITS-010	1304.10	00		022735.00
	CT0110%BU,12#,RESR1+.2,116		24166.02	80	014072.15 70	022735.40
	BZB,\$RZ,PE40EB		13.71	80	022740.34 00	022736.40
	B,\$+1.32		22741.10	00		022737.40
PE40EB	SIC,SEN		1310.00	80		022740.00
	B,SERS	-SH AMT REG OR EXP PATH	1304.10	00		022740.40
	B,\$+1.		22742.10	00		022741.00
	B,NRML6A		22711.10	00		022741.40
	SIC,SENO+.32		1311.40	80		022742.00
	B,SSW		1301.10	00		022742.40
NRML7	L%N#,NORL7		24220.00	60		022743.00
	CT0110%BU,48#,NRESL7+.12,68		24227.14	80	060042.15 70	022743.40
	BZB,\$RZ,PE42F	-42F	13.71	80	022746.34 00	022744.40
	B,\$+1.32		22747.10	00		022745.40
PE42F	SIC,SEN		1310.00	80		022746.00
	B,SERS	-NORM SH GTR 6-2 LOOPS L6-L1	1304.10	00		022746.40
	CT0110%BU,12#,NRESL7,116		24227.00	80	014072.15 70	022747.00
	BZB,\$RZ,PE42E	-42E	13.71	80	022751.74 00	022750.00
	B,\$+1.32		22752.50	00		022751.00
PE42E	SIC,SEN		1310.00	80		022751.40
	B,SERS	-EXP PATH NORM SH L7	1304.10	00		022752.00
NRML8	L%N#,NORL8		24221.00	60		022752.40
	CT0110%BU,48#,NRESL8+.12,68		24230.14	80	060042.15 70	022753.00
	BZB,\$RZ,PE44F	-44F	13.71	80	022755.74 00	022754.00
	B,\$+1.32		22756.50	00		022755.00
PE44F	SIC,SEN		1310.00	80		022755.40
	B,SERS	-NORM SH GTR 6-2 LOOPS L6-L2	1304.10	00		022756.00
	CT0110%BU,12#,NRESL8,116		24230.00	80	014072.15 70	022756.40
	BZB,\$RZ,PE44E	-44E	13.71	80	022761.34 00	022757.40
	B,\$+1.32		22762.10	00		022760.40
PE44E	SIC,SEN		1310.00	80		022761.00
	B,SERS	-EXP PATH NORM SH L8	1304.10	00		022761.40

NRML13	L%NB,NORL13		24222.00	60		022762.00
	CT0110%BU,48# ,NRSL13+.12,68		24231.14	80	060042.15 70	022762.40
	BZB,\$RZ,PE46F	-46F	13.71	80	022765.34 00	022763.40
	B,\$+1.32		22766.10	00		022764.40
PE46F	SIC,SEN		1310.00	80		022765.00
	B,SERS	-NORM SH GTR 6-3 LOOPS L6-L6-L1	1304.10	00		022765.40
	CT0110%BU,12# ,NRSL13,116		24231.00	80	014072.15 70	022766.00
	BZB,\$RZ,PE46E	-46E	13.71	80	022770.74 00	022767.00
	B,\$+1.32		22771.50	00		022770.00
PE46E	SIC,SEN		1310.00	80		022770.40
	B,SERS	-EXP PATH NORM SH L13	1304.10	00		022771.00
	B,\$+1.		22772.50	00		022771.40
	B,NRML7		22743.10	00		022772.00
	SIC,SEN0+.32		1311.40	80		022772.40
	B,SSW		1301.10	00		022773.00
AEXPEN	L%BU,64# ,WRDA%\$X1# ,64		24120.00	81	000040.20 50	022773.40
	+%BU,64# ,WRDB%\$X1# ,0		24122.00	81	000000.20 10	022774.40
	E+%U# ,SMANO		24201.45	60		022775.40
	CT0110%BU,52# ,WRDA+.12%\$X1# ,64		24120.14	81	064040.15 70	022776.00
	BZB,\$RZ,PE48A	-48	13.71	80	023000.74 00	022777.00
	B,\$+1.32		23001.50	00		023000.00
PE48A	SIC,SEN		1310.00	80		023000.40
	B,SERS	-GATE 31-32 HI 52 BITS	1304.10	00		023001.00
	CT0110%BU,44# ,WRDB%\$X1# ,20		24122.00	81	054012.15 70	023001.40
	BZB,\$RZ,PE48B	-48	13.71	80	023004.34 00	023002.40
	B,\$+1.32		23005.10	00		023003.40
PE48B	SIC,SEN		1310.00	80		023004.00
	B,SERS	-GATE 31-32 LOW 44 BITS	1304.10	00		023004.40
	CBR+,\$X1,AEXPEN		22773.43	4C		023005.00
	B,\$+1.		23006.50	00		023005.40
	B,AEXPEN		22773.50	00		023006.00
	SIC,SEN0+.32		1311.40	80		023006.40
	B,SSW		1301.10	00		023007.00
AGTRC	L%BU,64# ,SMANO,0		24201.00	80	000000.20 50	023007.40
	+%U# ,AEXPA%\$X1#		24234.40	21		023010.40
	CT0110%BU,48# ,AEXPA+.12%\$X1# ,68		24234.14	81	060042.15 70	023011.00
	BZB,\$RZ,PE50	-50	13.71	80	023013.74 00	023012.00
	B,\$+1.32		23014.50	00		023013.00
PE50	SIC,SEN		1310.00	80		023013.40
	B,SERS	-GATE 4 OR A GTR C EXP DEC	1304.10	00		023014.00
	CBR+,\$X1,AGTRC		23007.43	4C		023014.40
	B,\$+1.		23016.10	00		023015.00
	B,AGTRC		23007.50	00		023015.40
	SIC,SEN0+.32		1311.40	80		023016.00
	B,SSW		1301.10	00		023016.40
CMPGT	L%BU,64# ,WRDA,64		24120.00	80	000040.20 50	023017.00
	+%BU,64# ,WRDB,0		24122.00	80	000000.20 10	023020.00
	D-%N# ,SMANL1		24206.14	20		023021.00
	CT0110%BU,52# ,WRDA+.12,64		24120.14	80	064040.15 70	023021.40
	BZB,\$RZ,PE52FA	-52F OR ADD R1 PRE SHF DEC	13.71	80	023024.34 00	023022.40
	B,\$+1.32		23025.10	00		023023.40
PE52FA	SIC,SEN		1310.00	80		023024.00
	B,SERS	-GATE 23-HI 52 BITS-101	1304.10	00		023024.40
	CT0110%BU,44# ,WRDB,20		24122.00	80	054012.15 70	023025.00
	BZB,\$RZ,PE52FB	-52F	13.71	80	023027.74 00	023026.00
	B,\$+1.32		23030.50	00		023027.00
PE52FB	SIC,SEN		1310.00	80		023027.40
	B,SERS	-GATE 23-LOW 44 BITS-101	1304.10	00		023030.00
	CT0110%BU,12# ,SMANO,116		24201.00	80	014072.15 70	023030.40
	BZB,\$RZ,PE52EA	-52E	13.71	80	023033.34 00	023031.40
	B,\$+1.32		23034.10	00		023032.40
PE52EA	SIC,SEN		1310.00	80		023033.00
	B,SERS	-EXP PATH-MOST LIKELY COMP	1304.10	00		023033.40
	L%BU,64# ,SMANO,64		24201.00	80	000040.20 50	023034.00
	+%U# ,WRDA		24120.40	20		023035.00
	CT0110%BU,48# ,WRDA+.12,68		24120.14	80	060042.15 70	023035.40

	BZB,\$RZ,PE52FC	-52F	13.71	80	023040.34	00	023036.40
	B,\$+1.32		23041.10	00			023037.40
PE52FC	SIC,SEN		1310.00	80			023040.00
	B,SERS	-GATE 23-HI 52 BITS-010	1304.10	00			023040.40
	CT0110%BU,12,WRDA,116		24120.00	80	014072.15	70	023041.00
	BZB,\$RZ,PE52EB	-52E	13.71	80	023043.74	00	023042.00
	B,\$+1.32		23044.50	00			023043.00
PE52EB	SIC,SEN		1310.00	80			023043.40
	B,SERS	-EXP PATH-MOST LIKELY COMP	1304.10	00			023044.00
	L%BU,49,WRDA+,12,20		24120.14	80	061012.20	50	023044.40
	D+%U,SMANL1		24206.54	20			023045.40
	CT0110%BU,48,WRDA+,12,20		24120.14	80	060012.15	70	023046.00
	BZB,\$RZ,PE52FD	-52F	13.71	80	023050.74	00	023047.00
	B,\$+1.32		23051.50	00			023050.00
PE52FD	SIC,SEN		1310.00	80			023050.40
	B,SERS	-GATE 23-LOW 44 BITS-010	1304.10	00			023051.00
	CT0110%BU,12,SMANL1,116		24206.00	80	014072.15	70	023051.40
	BZB,\$RZ,PE52EC		13.71	80	023054.34	00	023052.40
	B,\$+1.32		23055.10	00			023053.40
PE52EC	SIC,SEN		1310.00	80			023054.00
	B,SERS		1304.10	00			023054.40
	B,\$+1.		23056.10	00			023055.00
	B,CMPGT		23017.10	00			023055.40
	SIC,SEN0+,32		1311.40	80			023056.00
	B,SSW		1301.10	00			023056.40
PRESHF	L%BU,64,SMANL2,64		24207.00	80	000040.20	50	023057.00
	D+%U,WRDA		24120.44	20			023060.00
	CT0110%BU,50,WRDA+,10,66		24120.12	80	062041.15	70	023060.40
	BZB,\$RZ,PE54	-54	13.71	80	023063.34	00	023061.40
	B,\$+1.32		23064.10	00			023062.40
PE54	SIC,SEN		1310.00	80			023063.00
	B,SERS	-R2 PRE SH DEC A GTR C	1304.10	00			023063.40
	L%BU,64,SMANL3,64		24210.00	80	000040.20	50	023064.00
	D+%U,WRDA		24120.44	20			023065.00
	CT0110%BU,51,WRDA+,9,65		24120.11	80	063040.55	70	023065.40
	BZB,\$RZ,PE56	-56	13.71	80	023070.34	00	023066.40
	B,\$+1.32		23071.10	00			023067.40
PE56	SIC,SEN		1310.00	80			023070.00
	B,SERS	-R3 PRE SH DEC A GTR C	1304.10	00			023070.40
	B,\$+1.		23072.10	00			023071.00
	B,PRESHF		23057.10	00			023071.40
	SIC,SEN0+,32		1311.40	80			023072.00
	B,SSW		1301.10	00			023072.40
LFTEND	BBZ,\$LC,LFTEND+1.0		13.26	80	023074.34	06	023073.00
	L%BU,1,WRDA+,12,115		24120.14	80	001071.60	50	023074.00
	SHF%U,1		200.47	20			023075.00
	BZB,\$LC,PE58	-58	13.26	80	023077.34	04	023075.40
	B,\$+1.32		23100.10	00			023076.40
PE58	SIC,SEN		1310.00	80			023077.00
	B,SERS	-POS 2 SHIFTED L1	1304.10	00			023077.40
	L%BU,1,WRDA+,12,115		24120.14	80	001071.60	50	023100.00
	SHF%U,2		400.47	20			023101.00
	BZB,\$LC,PE60	-60	13.26	80	023103.34	04	023101.40
	B,\$+1.32		23104.10	00			023102.40
PE60	SIC,SEN		1310.00	80			023103.00
	B,SERS	-POS 2 SHIFTED L2	1304.10	00			023103.40
	L%BU,1,WRDA+,12,114		24120.14	80	001071.20	50	023104.00
	SHF%U,2		400.47	20			023105.00
	BZB,\$LC,PE62	-62	13.26	80	023107.34	04	023105.40
	B,\$+1.32		23110.10	00			023106.40
PE62	SIC,SEN		1310.00	80			023107.00
	B,SERS	-POS 3 SHIFTED L2	1304.10	00			023107.40
	L%BU,1,WRDA+,12,115		24120.14	80	001071.60	50	023110.00
	SHF%U,3		600.47	20			023111.00
	BZB,\$LC,PE64	-64	13.26	80	023113.34	04	023111.40
	B,\$+1.32		23114.10	00			023112.40

PE64	SIC,SEN		1310.00 80	023113.00
	B,SERS	-POS 2 SHIFTED L3	1304.10 00	023113.40
	L%BU,1H,WRDA+.12,114		24120.14 80 001071.20 50	023114.00
	SHF%UH,3		600.47 20	023115.00
	BZBZ,\$LC,PE66	-66	13.26 80 023117.34 04	023115.40
	B,\$+1.32		23120.10 00	023116.40
PE66	SIC,SEN		1310.00 80	023117.00
	B,SERS	-POS 3 SHIFTED L3	1304.10 00	023117.40
	L%BU,1H,WRDA+.12,113		24120.14 80 001070.60 50	023120.00
	SHF%UH,3		600.47 20	023121.00
	BZBZ,\$LC,PE68	-68	13.26 80 023123.34 04	023121.40
	B,\$+1.32		23124.10 00	023122.40
PE68	SIC,SEN		1310.00 80	023123.00
	B,SERS	-POS 4 SHIFTED L3	1304.10 00	023123.40
	L%BU,1H,WRDA+.12,115		24120.14 80 001071.60 50	023124.00
	SHF%UH,4		1000.47 20	023125.00
	BZBZ,\$LC,PE70	-70	13.26 80 023127.34 04	023125.40
	B,\$+1.32		23130.10 00	023126.40
PE70	SIC,SEN		1310.00 80	023127.00
	B,SERS	-POS 2 SHIFTED L4	1304.10 00	023127.40
	L%BU,1H,WRDA+.12,114		24120.14 80 001071.20 50	023130.00
	SHF%UH,4		1000.47 20	023131.00
	BZBZ,\$LC,PE72	-72	13.26 80 023133.34 04	023131.40
	B,\$+1.32		23134.10 00	023132.40
PE72	SIC,SEN		1310.00 80	023133.00
	B,SERS	-POS 3 SHIFTED L4	1304.10 00	023133.40
	L%BU,1H,WRDA+.12,113		24120.14 80 001070.60 50	023134.00
	SHF%UH,4		1000.47 20	023135.00
	BZBZ,\$LC,PE74	-74	13.26 80 023137.34 04	023135.40
	B,\$+1.32		23140.10 00	023136.40
PE74	SIC,SEN		1310.00 80	023137.00
	B,SERS	-POS 4 SHIFTED L4	1304.10 00	023137.40
	L%BU,1H,WRDA+.12,112		24120.14 80 001070.20 50	023140.00
	SHF%UH,4		1000.47 20	023141.00
	BZBZ,\$LC,PE76	-76	13.26 80 023143.34 04	023141.40
	B,\$+1.32		23144.10 00	023142.40
PE76	SIC,SEN		1310.00 80	023143.00
	B,SERS	-POS 5 SHIFTED L4	1304.10 00	023143.40
	L%BU,64H,SMANO,64		24201.00 80 000040.20 50	023144.00
	SHF%UH,0		0.47 20	023145.00
	BB,\$LC,PE78	-78	13.26 80 023147.34 02	023145.40
	B,\$+1.32		23150.10 00	023146.40
PE78	SIC,SEN		1310.00 80	023147.00
	B,SERS	-ZERO SHIFT POS1-2	1304.10 00	023147.40
	SHF%UH,1		200.47 20	023150.00
	BB,\$LC,PE80	-80	13.26 80 023152.34 02	023150.40
	B,\$+1.32		23153.10 00	023151.40
PE80	SIC,SEN		1310.00 80	023152.00
	B,SERS	-L1 SHIFT POS 0-1-2	1304.10 00	023152.40
	SHF%UH,2		400.47 20	023153.00
	BB,\$LC,PE82	-82	13.26 80 023155.34 02	023153.40
	B,\$+1.32		23156.10 00	023154.40
PE82	SIC,SEN		1310.00 80	023155.00
	B,SERS	-L2 SHIFT POS 0-1-2-3	1304.10 00	023155.40
	SHF%UH,3		600.47 20	023156.00
	BB,\$LC,PE84	-84	13.26 80 023160.34 02	023156.40
	B,\$+1.32		23161.10 00	023157.40
PE84	SIC,SEN		1310.00 80	023160.00
	B,SERS	-63 SHIFT POS 0-1-2-3-4	1304.10 00	023160.40
	SHF%UH,4		1000.47 20	023161.00
	BB,\$LC,PE86	-86	13.26 80 023163.34 02	023161.40
	B,\$+1.32		23164.10 00	023162.40
PE86	SIC,SEN		1310.00 80	023163.00
	B,SERS	-L4 SHIFT POS 0-1-2-3-4-5	1304.10 00	023163.40
	B,\$+1.		23165.10 00	023164.00
	B,LFTEND		23073.10 00	023164.40

	SIC,SEN0+.32		1311.40	80			023165.00
	B,SSW		1301.10	00			023165.40
NSYMD	BB1,SNM,NSYMD+1.		13.77	80	023167.34	0E	023166.00
	L%BU,1H,WRDA+.12,110		24120.14	80	001067.20	50	023167.00
	E+%NH,SMANO		24201.05	60			023170.00
	CT0110%BU,5H,ALLONE,20		24236.00	80	005012.15	70	023170.40
	BZB,SRZ,PE96	-96	13.71	80	023173.34	00	023171.40
	B,\$+1.32		23174.10	00			023172.40
PE96	SIC,SEN		1310.00	80			023173.00
	B,SERS	-NOISY MODE LEFT ONES 98-101 SHI	1304.10	00			023173.40
		-L5					
	L%BU,1H,WRDA+.12,109		24120.14	80	001066.60	50	023174.00
	E+%NH,SMANO		24201.05	60			023175.00
	CT0110%BU,6H,ALLONE,20		24236.00	80	006012.15	70	023175.40
	BZB,SRZ,PE98	-98	13.71	80	023200.34	00	023176.40
	B,\$+1.32		23201.10	00			023177.40
PE98	SIC,SEN		1310.00	80			023200.00
	B,SERS	-NOISY MODE LEFT ONES 98-101	1304.10	00			023200.40
		-SHIFTED L6					
	L%BU,1H,WRDA+.12,68		24120.14	80	001042.20	50	023201.00
	+%NH,SMANO		24201.00	20			023202.00
	CT0110%BU,48H,ALLONE,68		24236.00	80	060042.15	70	023202.40
	BZB,SRZ,PE100	-100	13.71	80	023205.34	00	023203.40
	B,\$+1.32		23206.10	00			023204.40
PE100	SIC,SEN		1310.00	80			023205.00
	B,SERS	-INJECTION OF 48 NM ONES	1304.10	00			023205.40
		-SHIFTED L47					
	L%BU,1H,WRDB,112		24122.00	80	001070.20	50	023206.00
	E+%NH,SMANO		24201.05	60			023207.00
	CT0110%BU,1H,WRDB,20		24122.00	80	001012.15	70	023207.40
	BZB,SRZ,PE102	-102	13.71	80	023212.34	00	023210.40
	B,\$+1.32		23213.10	00			023211.40
PE102	SIC,SEN		1310.00	80			023212.00
	B,SERS	-NSY MDE LFT SH 100 TO 97	1304.10	00			023212.40
	L%BU,1H,WRDB,111		24122.00	80	001067.60	50	023213.00
	E+%NH,SMANO		24201.05	60			023214.00
	CT0110%BU,2H,ALLONE,20		24236.00	80	002012.15	70	023214.40
	BZB,SRZ,PE104	-104	13.71	80	023217.34	00	023215.40
	B,\$+1.32		23220.10	00			023216.40
PE104	SIC,SEN		1310.00	80			023217.00
	B,SERS	-NSY MDE LFT SH 100,101, TO 96,9	1304.10	00			023217.40
SETNMZ	BBZ,SNM,SETNMZ+1.		13.77	80	023221.34	06	023220.00
CHKCTR	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023221.00
	SHE%UH,13		3200.47	20			023222.00
	CT0110%BU,3H,WRDA+.12,33		24120.14	80	003020.55	70	023222.40
	BZB,SRZ,R13	-R13	13.71	80	023225.34	00	023223.40
	B,\$+1.32		23226.10	00			023224.40
R13	SIC,SEN		1310.00	80			023225.00
	B,SERS	-SH CTR L 13	1304.10	00			023225.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023226.00
	SHE%UH,17		4200.47	20			023227.00
	CT0110%BU,3H,WRDA+.12,37		24120.14	80	003022.55	70	023227.40
	BZB,SRZ,R17	-R17	13.71	80	023232.34	00	023230.40
	B,\$+1.32		23233.10	00			023231.40
R17	SIC,SEN		1310.00	80			023232.00
	B,SERS	-SH CTR L 17	1304.10	00			023232.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023233.00
	SHE%UH,21		5200.47	20			023234.00
	CT0110%BU,3H,WRDA+.12,41		24120.14	80	003024.55	70	023234.40
	BZB,SRZ,R21	-R21	13.71	80	023237.34	00	023235.40
	B,\$+1.32		23240.10	00			023236.40
R21	SIC,SEN		1310.00	80			023237.00
	B,SERS	-SH CTR L 21	1304.10	00			023237.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023240.00
	SHE%UH,25		6200.47	20			023241.00
	CT0110%BU,3H,WRDA+.12,45		24120.14	80	003026.55	70	023241.40



	BZB,\$RZ,R25	-R25	13.71	80	023244.34	00	023242.40
	B,\$+1.32		23245.10	00			023243.40
R25	SIC,SEN		1310.00	80			023244.00
	B,SERS	-SH CTR L 25	1304.10	00			023244.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023245.00
	SHF%UH,29		7200.47	20			023246.00
	CT0110%BU,3H,WRDA+.12,49		24120.14	80	003030.55	70	023246.40
	BZB,\$RZ,R29	-R29	13.71	80	023251.34	00	023247.40
	B,\$+1.32		23252.10	00			023250.40
R29	SIC,SEN		1310.00	80			023251.00
	B,SERS	-SH CTR L 29	1304.10	00			023251.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023252.00
	SHF%UH,33		10200.47	20			023253.00
	CT0110%BU,3H,WRDA+.12,53		24120.14	80	003032.55	70	023253.40
	BZB,\$RZ,R33	-R33	13.71	80	023256.34	00	023254.40
	B,\$+1.32		23257.10	00			023255.40
R33	SIC,SEN		1310.00	80			023256.00
	B,SERS	-SH CTR L 33	1304.10	00			023256.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023257.00
	SHF%UH,37		11200.47	20			023260.00
	CT0110%BU,3H,WRDA+.12,57		24120.14	80	003034.55	70	023260.40
	BZB,\$RZ,R37	-R37	13.71	80	023263.34	00	023261.40
	B,\$+1.32		23264.10	00			023262.40
R37	SIC,SEN		1310.00	80			023263.00
	B,SERS	-SH CTR L 37	1304.10	00			023263.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023264.00
	SHF%UH,41		12200.47	20			023265.00
	CT0110%BU,3H,WRDA+.12,61		24120.14	80	003036.55	70	023265.40
	BZB,\$RZ,R41	-R41	13.71	80	023270.34	00	023266.40
	B,\$+1.32		23271.10	00			023267.40
R41	SIC,SEN		1310.00	80			023270.00
	B,SERS	-SH CTR L 41	1304.10	00			023270.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023271.00
	SHF%UH,45		13200.47	20			023272.00
	CT0110%BU,3H,WRDA+.12,65		24120.14	80	003040.55	70	023272.40
	BZB,\$RZ,R45	-R45	13.71	80	023275.34	00	023273.40
	B,\$+1.32		23276.10	00			023274.40
R45	SIC,SEN		1310.00	80			023275.00
	B,SERS	-SH CTR L 45	1304.10	00			023275.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023276.00
	SHF%UH,49		14200.47	20			023277.00
	CT0110%BU,3H,WRDA+.12,69		24120.14	80	003042.55	70	023277.40
	BZB,\$RZ,R49	-R49	13.71	80	023302.34	00	023300.40
	B,\$+1.32		23303.10	00			023301.40
R49	SIC,SEN		1310.00	80			023302.00
	B,SERS	-SH CTR L 49	1304.10	00			023302.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023303.00
	SHF%UH,53		15200.47	20			023304.00
	CT0110%BU,3H,WRDA+.12,73		24120.14	80	003044.55	70	023304.40
	BZB,\$RZ,R53	-R53	13.71	80	023307.34	00	023305.40
	B,\$+1.32		23310.10	00			023306.40
R53	SIC,SEN		1310.00	80			023307.00
	B,SERS	-SH CTR L 53	1304.10	00			023307.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023310.00
	SHF%UH,57		16200.47	20			023311.00
	CT0110%BU,3H,WRDA+.12,77		24120.14	80	003046.55	70	023311.40
	BZB,\$RZ,R57	-R57	13.71	80	023314.34	00	023312.40
	B,\$+1.32		23315.10	00			023313.40
R57	SIC,SEN		1310.00	80			023314.00
	B,SERS	-SH CTR L 57	1304.10	00			023314.40
	L%BU,3H,WRDA+.12,20		24120.14	80	003012.20	50	023315.00
	SHF%UH,61		17200.47	20			023316.00
	CT0110%BU,3H,WRDA+.12,81		24120.14	80	003050.55	70	023316.40
	BZB,\$RZ,R61	-R61	13.71	80	023321.34	00	023317.40
	B,\$+1.32		23322.10	00			023320.40
R61	SIC,SEN		1310.00	80			023321.00

	B,SERS	-SH CTR L 61	1304.10	00		023321.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023322.00
	SHF%UH,65		20200.47	20		023323.00
	CT0110%BU,3H,WRDA+,12,85		24120.14	80	003052.55 70	023323.40
	BZB,\$RZ,R65	-R65	13.71	80	023326.34 00	023324.40
	B,\$+1.32		23327.10	00		023325.40
R65	SIC,SEN		1310.00	80		023326.00
	B,SERS	-SH CTR L 65	1304.10	00		023326.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023327.00
	SHF%UH,69		21200.47	20		023330.00
	CT0110%BU,3H,WRDA+,12,89		24120.14	80	003054.55 70	023330.40
	BZB,\$RZ,R69	-R69	13.71	80	023333.34 00	023331.40
	B,\$+1.32		23334.10	00		023332.40
R69	SIC,SEN		1310.00	80		023333.00
	B,SERS	-SH CTR L 69	1304.10	00		023333.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023334.00
	SHF%UH,73		22200.47	20		023335.00
	CT0110%BU,3H,WRDA+,12,93		24120.14	80	003056.55 70	023335.40
	BZB,\$RZ,R73	-R73	13.71	80	023340.34 00	023336.40
	B,\$+1.32		23341.10	00		023337.40
R73	SIC,SEN		1310.00	80		023340.00
	B,SERS	-SH CTR L 73	1304.10	00		023340.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023341.00
	SHF%UH,77		23200.47	20		023342.00
	CT0110%BU,3H,WRDA+,12,97		24120.14	80	003060.55 70	023342.40
	BZB,\$RZ,R77	-R77	13.71	80	023345.34 00	023343.40
	B,\$+1.32		23346.10	00		023344.40
R77	SIC,SEN		1310.00	80		023345.00
	B,SERS	-SH CTR L 77	1304.10	00		023345.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023346.00
	SHF%UH,81		24200.47	20		023347.00
	CT0110%BU,3H,WRDA+,12,101		24120.14	80	003062.55 70	023347.40
	BZB,\$RZ,R81	-R81	13.71	80	023352.34 00	023350.40
	B,\$+1.32		23353.10	00		023351.40
R81	SIC,SEN		1310.00	80		023352.00
	B,SERS	-SH CTR L 81	1304.10	00		023352.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023353.00
	SHF%UH,85		25200.47	20		023354.00
	CT0110%BU,3H,WRDA+,12,105		24120.14	80	003064.55 70	023354.40
	BZB,\$RZ,R85	-R85	13.71	80	023357.34 00	023355.40
	B,\$+1.32		23360.10	00		023356.40
R85	SIC,SEN		1310.00	80		023357.00
	B,SERS	-SH CTR L 85	1304.10	00		023357.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023360.00
	SHF%UH,89		26200.47	20		023361.00
	CT0110%BU,3H,WRDA+,12,109		24120.14	80	003066.55 70	023361.40
	BZB,\$RZ,R89	-R89	13.71	80	023364.34 00	023362.40
	B,\$+1.32		23365.10	00		023363.40
R89	SIC,SEN		1310.00	80		023364.00
	B,SERS	-SH CTR L 89	1304.10	00		023364.40
	L%BU,3H,WRDA+,12,20		24120.14	80	003012.20 50	023365.00
	SHF%UH,93		27200.47	20		023366.00
	CT0110%BU,3H,WRDA+,12,113		24120.14	80	003070.55 70	023366.40
	BZB,\$RZ,R93	-R93	13.71	80	023371.34 00	023367.40
	B,\$+1.32		23372.10	00		023370.40
R93	SIC,SEN		1310.00	80		023371.00
	B,SERS	-SH CTR L 93	1304.10	00		023371.40
	L%BU,48H,WRDB,68		24122.00	80	060042.20 50	023372.00
	ST%UH,SRSG		24237.40	E0		023373.00
	L%BU,48H,SRSG+,12,68		24237.14	80	060042.20 50	023373.40
	CT0110%BU,48H,WRDB,68		24122.00	80	060042.15 70	023374.40
	BZB,\$RZ,STX	-STX	13.71	80	023377.34 00	023375.40
	B,\$+1.32		23400.10	00		023376.40
STX	SIC,SEN		1310.00	80		023377.00
	B,SERS	-STORE TYPE ERROR	1304.10	00		023377.40
	L%BU,48H,WRDA,20		24120.00	80	060012.20 50	023400.00

	SLO%UH,SMANO		24201.44	E0		023401.00
	L%BU,60H,SMANO,68		24201.00	80	074042.20 50	023401.40
	CT0110%BU,48H,WRDA,68		24120.00	80	060042.15 70	023402.40
	BZB,\$RZ,SL48	-SL48	13.71	80	023405.34 00	023403.40
SL48	B,\$+1.32		23406.10	00		023404.40
	SIC,SEN		1310.00	80		023405.00
	B,SERS	-SH CTR-SLO-UN-SH 48	1304.10	00		023405.40
	Z,SMANO		24201.22	00		023406.00
	B,\$+1.		23407.50	00		023406.40
	B,CHKCTP		23221.10	00		023407.00
	SIC,SEN0+.32		1311.40	80		023407.40
	B,SSW		1301.10	00		023410.00
CHKSSR	L%BU,1H,SMANO,0		24201.00	80	001000.20 50	023410.40
	SRT%UH,SRSG		24237.46	E0		023411.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023412.00
	CT0110%BU,48H,SMANO,68		24201.00	80	060042.15 70	023413.00
	BZB,\$RZ,SRTE1	-SR1	13.71	80	023415.74 00	023414.00
	B,\$+1.32		23416.50	00		023415.00
SRTE1	SIC,SEN		1310.00	80		023415.40
	B,SERS	-RDCND WAS ALL ZERO	1304.10	00		023416.00
	L%BU,1H,WRDB,68		24122.00	80	001042.20 50	023416.40
	SRT%UH,SRSG		24237.46	E0		023417.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023420.00
	CT0110%BU,48H,SMANL1+.50,68		24206.62	80	060042.15 70	023421.00
	BZB,\$RZ,SRTE2	-SR2	13.71	80	023423.74 00	023422.00
	B,\$+1.32		23424.50	00		023423.00
SRTE2	SIC,SEN		1310.00	80		023423.40
	B,SERS	-RDCND HAD 1 IN POS 59	1304.10	00		023424.00
	L%BU,1H,WRDB,70		24122.00	80	001043.20 50	023424.40
	SRT%UH,SRSG		24237.46	E0		023425.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023426.00
	CT0110%BU,48H,SMANL1+.51,68		24206.63	80	060042.15 70	023427.00
	BZB,\$RZ,SRTE3	-SR3	13.71	80	023431.74 00	023430.00
	B,\$+1.32		23432.50	00		023431.00
SRTE3	SIC,SEN		1310.00	80		023431.40
	B,SERS	-RDCND HAD 1 IN POS 57	1304.10	00		023432.00
	L%BU,1H,WRDB,72		24122.00	80	001044.20 50	023432.40
	SRT%UH,SRSG		24237.46	E0		023433.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023434.00
	CT0110%BU,48H,SMANL1+.52,68		24206.64	80	060042.15 70	023435.00
	BZB,\$RZ,SRTE4	-SR4	13.71	80	023437.74 00	023436.00
	B,\$+1.32		23440.50	00		023437.00
SRTE4	SIC,SEN		1310.00	80		023437.40
	B,SERS	-RDCND HAD 1 IN POS 55	1304.10	00		023440.00
	L%BU,1H,WRDB,74		24122.00	80	001045.20 50	023440.40
	SRT%UH,SRSG		24237.46	E0		023441.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023442.00
	CT0110%BU,48H,SMANL1+.53,68		24206.65	80	060042.15 70	023443.00
	BZB,\$RZ,SRTE5	-SR5	13.71	80	023445.74 00	023444.00
	B,\$+1.32		23446.50	00		023445.00
SRTE5	SIC,SEN		1310.00	80		023445.40
	B,SERS	-RDCND HAD 1 IN POS 53	1304.10	00		023446.00
	L%BU,1H,WRDB,76		24122.00	80	001046.20 50	023446.40
	SRT%UH,SRSG		24237.46	E0		023447.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023450.00
	CT0110%BU,48H,SMANL1+.54,68		24206.66	80	060042.15 70	023451.00
	BZB,\$RZ,SRTE6		13.71	80	023453.74 00	023452.00
	B,\$+1.32		23454.50	00		023453.00
SRTE6	SIC,SEN		1310.00	80		023453.40
	B,SERS	-RDCND HAD 1 IN POS 51	1304.10	00		023454.00
	L%BU,1H,WRDB,78		24122.00	80	001047.20 50	023454.40
	SRT%UH,SRSG		24237.46	E0		023455.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023456.00
	CT0110%BU,48H,SMANL1+.55,68		24206.67	80	060042.15 70	023457.00
	BZB,\$RZ,SRTE7		13.71	80	023461.74 00	023460.00
	B,\$+1.32		23462.50	00		023461.00

SRTE7	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 49	1310.00	80		023461.40
	L%BU,1H,WRDB,80			1304.10	00		023462.00
	SRT%UH,SRSG			24122.00	80	001050.20 50	023462.40
	L%BU,48H,SRSG+.12,68			24237.46	E0		023463.40
	CT0110%BU,48H,SMANL1+.56,68			24237.14	80	060042.20 50	023464.00
	BZB,SRZ,SRTE8			24206.70	80	060042.15 70	023465.00
	B,s+1.32			13.71	80	023467.74 00	023466.00
				23470.50	00		023467.00
				1310.00	80		023467.40
SRTE8	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 47	1304.10	00		023470.00
	L%BU,1H,WRDB,82			24122.00	80	001051.20 50	023470.40
	SRT%UH,SRSG			24237.46	E0		023471.40
	L%BU,48H,SRSG+.12,68			24237.14	80	060042.20 50	023472.00
	CT0110%BU,48H,SMANL1+.57,68			24206.71	80	060042.15 70	023473.00
	BZB,SRZ,SRTE9			13.71	80	023475.74 00	023474.00
	B,s+1.32			23476.50	00		023475.00
				1310.00	80		023475.40
SRTE9	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 45	1304.10	00		023476.00
	L%BU,1H,WRDB,84			24122.00	80	001052.20 50	023476.40
	SRT%UH,SRSG			24237.46	E0		023477.40
	L%BU,48H,SRSG+.12,68			24237.14	80	060042.20 50	023500.00
	CT0110%BU,48H,SMANL1+.58,68			24206.72	80	060042.15 70	023501.00
	BZB,SRZ,SRTE10			13.71	80	023503.74 00	023502.00
	B,s+1.32			23504.50	00		023503.00
				1310.00	80		023503.40
SRTE10	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 43	1304.10	00		023504.00
	L%BU,1H,WRDB,86			24122.00	80	001053.20 50	023504.40
	SRT%UH,SRSG			24237.46	E0		023505.40
	L%BU,48H,SRSG+.12,68			24237.14	80	060042.20 50	023506.00
	CT0110%BU,48H,SMANL1+.59,68			24206.73	80	060042.15 70	023507.00
	BZB,SRZ,SRTE11			13.71	80	023511.74 00	023510.00
	B,s+1.32			23512.50	00		023511.00
				1310.00	80		023511.40
SRTE11	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 41	1304.10	00		023512.00
	L%BU,1H,WRDB,88			24122.00	80	001054.20 50	023512.40
	SRT%UH,SRSG			24237.46	E0		023513.40
	L%BU,48H,SRSG+.12,68			24237.14	80	060042.20 50	023514.00
	CT0110%BU,48H,SMANL1+.60,68			24206.74	80	060042.15 70	023515.00
	BZB,SRZ,SRTE12			13.71	80	023517.74 00	023516.00
	B,s+1.32			23520.50	00		023517.00
				1310.00	80		023517.40
SRTE12	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 39	1304.10	00		023520.00
	L%BU,1H,WRDB,90 <i>lit in 37</i>			24122.00	80	001055.20 50	023520.40
	SRT%UH,SRSG <i>lit 24</i>			24237.46	E0		023521.40
	L%BU,48H,SRSG+.12,68 <i>lit in 24</i>			24237.14	80	060042.20 50	023522.00
	CT0110%BU,48H,SMANL1+.61,68 <i>lit in 10 of c R2 a</i>			24206.75	80	060042.15 70	023523.00
	BZB,SRZ,SRTE13			13.71	80	023525.74 00	023524.00
	B,s+1.32			23526.50	00		023525.00
				1310.00	80		023525.40
SRTE13	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 37	1304.10	00		023526.00
	L%BU,1H,WRDB,92 <i>lit in 35</i>			24122.00	80	001056.20 50	023526.40
	SRT%UH,SRSG <i>lit 23</i>			24237.46	E0		023527.40
	L%BU,48H,SRSG+.12,68 <i>lit 23</i>			24237.14	80	060042.20 50	023530.00
	CT0110%BU,48H,SMANL1+.62,68 <i>lit 10 in c</i>			24206.76	80	060042.15 70	023531.00
	BZB,SRZ,SRTE14			13.71	80	023533.74 00	023532.00
	B,s+1.32			23534.50	00		023533.00
				1310.00	80		023533.40
SRTE14	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 35	1304.10	00		023534.00
	L%BU,1H,WRDB,94 <i>lit 33</i>			24122.00	80	001057.20 50	023534.40
	SRT%UH,SRSG <i>lit R2</i>			24237.46	E0		023535.40
	L%BU,48H,SRSG+.12,68 <i>lit 22</i>			24237.14	80	060042.20 50	023536.00
	CT0110%BU,48H,SMANL1+.63,68 ✓			24206.77	80	060042.15 70	023537.00
	BZB,SRZ,SRTE15			13.71	80	023541.74 00	023540.00
	B,s+1.32			23542.50	00		023541.00
				1310.00	80		023541.40
SRTE15	SIC,SEN	B,SERS	-RDCND HAD 1 IN POS 33	1304.10	00		023542.00

	L%BU,1H,WRDB,96		24122.00	80	001060.20	50	023542.40
	SRT%UH,SRSG		24237.46	E0			023543.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023544.00
	CT0110%BU,48H,SMANL1+.64,68		24207.00	80	060042.15	70	023545.00
	BZB,\$RZ,SRTE16		13.71	80	023547.74	00	023546.00
	B,\$+1.32		23550.50	00			023547.00
SRTE16	SIC,SEN		1310.00	80			023547.40
	B,SERS	-RDCND HAD 1 IN POS 31	1304.10	00			023550.00
	L%BU,1H,WRDB,98		24122.00	80	001061.20	50	023550.40
	SRT%UH,SRSG		24237.46	E0			023551.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023552.00
	CT0110%BU,48H,SMANL1+.65,68		24207.01	80	060042.15	70	023553.00
	BZB,\$RZ,SRTE17		13.71	80	023555.74	00	023554.00
	B,\$+1.32		23556.50	00			023555.00
SRTE17	SIC,SEN		1310.00	80			023555.40
	B,SERS	-RDCND HAD 1 IN POS 29	1304.10	00			023556.00
	L%BU,1H,WRDB,100		24122.00	80	001062.20	50	023556.40
	SRT%UH,SRSG		24237.46	E0			023557.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023560.00
	CT0110%BU,48H,SMANL1+.66,68		24207.02	80	060042.15	70	023561.00
	BZB,\$RZ,SRTE18		13.71	80	023563.74	00	023562.00
	B,\$+1.32		23564.50	00			023563.00
SRTE18	SIC,SEN		1310.00	80			023563.40
	B,SERS	-RDCND HAD 1 IN POS 27	1304.10	00			023564.00
	L%BU,1H,WRDB,102		24122.00	80	001063.20	50	023564.40
	SRT%UH,SRSG		24237.46	E0			023565.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023566.00
	CT0110%BU,48H,SMANL1+.67,68		24207.03	80	060042.15	70	023567.00
	BZB,\$RZ,SRTE19		13.71	80	023571.74	00	023570.00
	B,\$+1.32		23572.50	00			023571.00
SRTE19	SIC,SEN		1310.00	80			023571.40
	B,SERS	-RDCND HAD 1 IN POS 25	1304.10	00			023572.00
	L%BU,1H,WRDB,104		24122.00	80	001064.20	50	023572.40
	SRT%UH,SRSG		24237.46	E0			023573.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023574.00
	CT0110%BU,48H,SMANL1+.68,68		24207.04	80	060042.15	70	023575.00
	BZB,\$RZ,SRTE20		13.71	80	023577.74	00	023576.00
	B,\$+1.32		23600.50	00			023577.00
SRTE20	SIC,SEN		1310.00	80			023577.40
	B,SERS	-RDCND HAD 1 IN POS 23	1304.10	00			023600.00
	L%BU,1H,WRDB,106		24122.00	80	001065.20	50	023600.40
	SRT%UH,SRSG		24237.46	E0			023601.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023602.00
	CT0110%BU,48H,SMANL1+.69,68		24207.05	80	060042.15	70	023603.00
	BZB,\$RZ,SRTE21		13.71	80	023605.74	00	023604.00
	B,\$+1.32		23606.50	00			023605.00
SRTE21	SIC,SEN		1310.00	80			023605.40
	B,SERS	-RDCND HAD 1 IN POS 21	1304.10	00			023606.00
	L%BU,1H,WRDB,108		24122.00	80	001066.20	50	023606.40
	SRT%UH,SRSG		24237.46	E0			023607.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023610.00
	CT0110%BU,48H,SMANL1+.70,68		24207.06	80	060042.15	70	023611.00
	BZB,\$RZ,SRTE22		13.71	80	023613.74	00	023612.00
	B,\$+1.32		23614.50	00			023613.00
SRTE22	SIC,SEN		1310.00	80			023613.40
	B,SERS	-RDCND HAD 1 IN POS 19	1304.10	00			023614.00
	L%BU,1H,WRDB,110		24122.00	80	001067.20	50	023614.40
	SRT%UH,SRSG		24237.46	E0			023615.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20	50	023616.00
	CT0110%BU,48H,SMANL1+.71,68		24207.07	80	060042.15	70	023617.00
	BZB,\$RZ,SRTE23		13.71	80	023621.74	00	023620.00
	B,\$+1.32		23622.50	00			023621.00
SRTE23	SIC,SEN		1310.00	80			023621.40
	B,SERS	-RDCND HAD 1 IN POS 17	1304.10	00			023622.00
	L%BU,1H,WRDB,112		24122.00	80	001070.20	50	023622.40
	SRT%UH,SRSG		24237.46	E0			023623.40

	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023624.00
	CT0110%BU,48,SMANL1+.72,68		24207.10	80	060042.15	70	023625.00
	BZB,\$RZ,SRTE24		13.71	80	023627.74	00	023626.00
	B,\$+1.32		23630.50	00			023627.00
SRTE24	SIC,SEN		1310.00	80			023627.40
	B,SERS	-RDCND HAD 1 IN POS 15	1304.10	00			023630.00
	L%BU,1,WRDB,114		24122.00	80	001071.20	50	023630.40
	SRT%U,SRSG		24237.46	E0			023631.40
	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023632.00
	CT0110%BU,48,SMANL1+.73,68		24207.11	80	060042.15	70	023633.00
	BZB,\$RZ,SRTE25		13.71	80	023635.74	00	023634.00
	B,\$+1.32		23636.50	00			023635.00
SRTE25	SIC,SEN		1310.00	80			023635.40
	B,SERS	-RDCND HAD 1 IN POS 13	1304.10	00			023636.00
	L%BU,4,SMANR4+.8,112		24205.10	80	004070.20	50	023636.40
	SRT%U,SRSG		24237.46	E0			023637.40
	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023640.00
	CT0110%BU,48,SMANR3+.10,68		24204.12	80	060042.15	70	023641.00
	BZB,\$RZ,SRTE26		13.71	80	023643.74	00	023642.00
	B,\$+1.32		23644.50	00			023643.00
SRTE26	SIC,SEN		1310.00	80			023643.40
	B,SERS	-SQ RT OF .1001----	1304.10	00			023644.00
	L%BU,5,SRNSB,110		24241.00	80	005067.20	50	023644.40
	SRT%U,SRSG		24237.46	E0			023645.40
	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023646.00
	CT0110%BU,48,NORL2+.16,68		24213.20	80	060042.15	70	023647.00
	BZB,\$RZ,SRTE27	-SR27	13.71	80	023651.74	00	023650.00
	B,\$+1.32		23652.50	00			023651.00
SRTE27	SIC,SEN		1310.00	80			023651.40
	B,SERS	-SQ RT OF .011001---	1304.10	00			023652.00
	L%BU,6,SRNSA,110		24240.00	80	006067.20	50	023652.40
	SRT%U,SRSG		24237.46	E0			023653.40
	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023654.00
	CT0110%BU,48,SMANR3+.9,68		24204.11	80	060042.15	70	023655.00
	BZB,\$RZ,SRTE28	-SR28	13.71	80	023657.74	00	023656.00
	B,\$+1.32		23660.50	00			023657.00
SRTE28	SIC,SEN		1310.00	80			023657.40
	B,SERS	-SQ RT OF .110001----	1304.10	00			023660.00
	L%BU,8,SRNSC,108		24242.00	80	010066.20	50	023660.40
	SRT%U,SRSG		24237.46	E0			023661.40
	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023662.00
	CT0110%BU,48,SRNSC+.10,68		24242.12	80	060042.15	70	023663.00
	BZB,\$RZ,SRTE29	-SR29	13.71	80	023665.74	00	023664.00
	B,\$+1.32		23666.50	00			023665.00
SRTE29	SIC,SEN		1310.00	80			023665.40
	B,SERS	-SQ RT OF .11100001---	1304.10	00			023666.00
	L%BU,1,WRDB,68		24122.00	80	001042.20	50	023666.40
	+%BU,1,WRDB,117		24122.00	80	001072.60	10	023667.40
	SRT%U,SRSG		24237.46	E0			023670.40
	BBZ,\$RZ,SRTE30	-SR30	13.71	80	023672.74	06	023671.00
	B,\$+1.32		23673.50	00			023672.00
SRTE30	SIC,SEN		1310.00	80			023672.40
	B,SERS	-SHIFT R1-BIT LOST	1304.10	00			023673.00
	B,\$+1.		23674.50	00			023673.40
	B,CHKSSR		23410.50	00			023674.00
	SIC,SEN0+.32		1311.40	80			023674.40
	B,SSW		1301.10	00			023675.00
SRNDT	L%BU,4,SRNSC+.7,66		24242.07	80	004041.20	50	023675.40
	SRD%N,SRSG		24237.02	E0			023676.40
	L%BU,48,SRSG+.12,68		24237.14	80	060042.20	50	023677.00
	CT0110%BU,48,SMANL2+.9,68		24207.11	80	060042.15	70	023700.00
	BZB,\$RZ,SRNDA	-SRNA	13.71	80	023702.74	00	023701.00
	B,\$+1.32		23703.50	00			023702.00
SRNDA	SIC,SEN		1310.00	80			023702.40
	B,SERS	-BITS 50-51 NOT SUPPRESSED	1304.10	00			023703.00
	L%BU,1,WRDB,67		24122.00	80	001041.60	50	023703.40

	SRD%BU,SRSG		24237.02	E0		023704.40
	L%BU,48H,SRSG+.12,68		24237.14	80	060042.20 50	023705.00
	CT0110%BU,48H,SMANL2+.9,68		24207.11	80	060042.15 70	023706.00
	BZB,\$RZ,SRNDB	-SRNB	13.71	80	023710.74 00	023707.00
	B,\$+1.32		23711.50	00		023710.00
SRNDB	SIC,SEN		1310.00	80		023710.40
	B,SERS	-NO FORCED CARRY INTO 50	1304.10	00		023711.00
	BD,SRNDC		24243.04	00		023711.40
	CNOP					
CHKL4	L%BU,64H,WRDAR2+1.,64		24135.00	80	000040.20 50	023712.00
	+%BU,64H,WRDBR2+1.,0		24137.00	80	000000.20 10	023713.00
	E+%BU,SMANO		24201.05	60		023714.00
	CT0110%BU,52H,WRDA+.12,64		24120.14	80	064040.15 70	023714.40
	BZB,\$RZ,PE16DA	-16D	13.71	80	024050.34 00	023715.40
	CT0110%BU,44H,WRDB+1.5,20		24123.05	80	054012.15 70	023716.40
	BZB,\$RZ,PE16DB	-16D	13.71	80	024051.74 00	023717.40
	L%BU,64H,WRDAR4+1.,64		24141.00	80	000040.20 50	023720.40
	+%BU,64H,WRDBR4+1.,0		24143.00	80	000000.20 10	023721.40
	+%BU,1H,WRDA+.12,111		24120.14	80	001067.60 10	023722.40
	E+%BU,SMANO		24201.05	60		023723.40
	CT0110%BU,51H,WRDA+1.13,64		24121.15	80	063040.15 70	023724.00
	BZB,\$RZ,PE16DC	-16D	13.71	80	024053.34 00	023725.00
	CT0110%BU,44H,WRDB+1.4,20		24123.04	80	054012.15 70	023726.00
	BZB,\$RZ,PE16DD		13.71	80	024054.74 00	023727.00
	SHF%U,4		1000.47	20		023730.00
	CT0110%BU,1H,WRDA,115		24120.00	80	001071.55 70	023730.40
	BZB,\$RZ,PE16DF	-16D-BIT 16 WHEN ZERO SHIFTED L4	13.71	80	024057.74 00	023731.40
	B,PE16C	-16C	24061.10	00		023732.40
CHKSZ	L%BU,64H,WRDA%\$X1H,64		24120.00	81	000040.20 50	023733.00
	+%BU,64H,WRDB%\$X1H,0		24122.00	81	000000.20 10	023734.00
	SHF%U,1		200.47	20		023735.00
	CT0110%BU,52H,WRDAL1+.12%\$X1H,64		24144.14	81	064040.15 70	023735.40
	BZB,\$RZ,CHKRST	-2A	13.71	80	023751.74 00	023736.40
	CT0110%BU,44H,WRDBL1%\$X1H,20		24146.00	81	054012.15 70	023737.40
	BZB,\$RZ,CHKRST	-2A	13.71	80	023751.74 00	023740.40
	CBR+,\$X1,CHKSZ		23733.03	4C		023741.40
ZRSHF	L%BU,64H,WRDA%\$X1H,64		24120.00	81	000040.20 50	023742.00
	+%BU,64H,WRDB%\$X1H,0		24122.00	81	000000.20 10	023743.00
	E+%U,SMANO		24201.45	60		023744.00
	CT0110%BU,52H,WRDA+.12%\$X1H,64		24120.14	81	064040.15 70	023744.40
	BZB,\$RZ,PE2NA	-2N	13.71	80	024062.74 00	023745.40
	CT0110%BU,44H,WRDB%\$X1H,20		24122.00	81	054012.15 70	023746.40
	BZB,\$RZ,PE2NB	-2N	13.71	80	024064.34 00	023747.40
	CBR+,\$X1,ZRSHF		23742.03	4C		023750.40
	B,PE2P	-2P	24065.50	00		023751.00
CHKRST	L%BU,64H,WRDA,64		24120.00	80	000040.20 50	023751.40
	+%BU,64H,WRDB,0		24122.00	80	000000.20 10	023752.40
	E+%U,SMANO		24201.45	60		023753.40
	CT0110%BU,52H,WRDA+.12,64		24120.14	80	064040.15 70	023754.00
	BZB,\$RZ,FRCZR	-2B1	13.71	80	023776.74 00	023755.00
	CT0110%BU,44H,WRDB,20		24122.00	80	054012.15 70	023756.00
	BZB,\$RZ,FRCZR	-2B1	13.71	80	023776.74 00	023757.00
	L%BU,64H,WRDA+1.,64		24121.00	80	000040.20 50	023760.00
	+%BU,64H,WRDB+1.,0		24123.00	80	000000.20 10	023761.00
	E+%U,SMANO		24201.45	60		023762.00
	CT0110%BU,52H,WRDA+1.12,64		24121.14	80	064040.15 70	023762.40
	BZB,\$RZ,NTHWRK	-2B2	13.71	80	024005.74 00	023763.40
	CT0110%BU,44H,WRDB+1.,20		24123.00	80	054012.15 70	023764.40
	BZB,\$RZ,NTHWRK	-2B2	13.71	80	024005.74 00	023765.40
	LX,\$X1,XA		24117.02	10		023766.40
CHK21	L%BU,64H,WRDA%\$X1H,64		24120.00	81	000040.20 50	023767.00
	+%BU,64H,WRDB%\$X1H,0		24122.00	81	000000.20 10	023770.00
	+%U,SMANO		24201.40	20		023771.00
	CT0110%BU,52H,WRDA+.12%\$X1H,64		24120.14	81	064040.15 70	023771.40
	BZB,\$RZ,PE2EA	-2E	13.71	80	024067.34 00	023772.40
	CT0110%BU,44H,WRDB%\$X1H,20		24122.00	81	054012.15 70	023773.40

	BZB,\$RZ,PE2EB	-2E	13.71	80	024070.74	00	023774.40
	CBR+,\$X1,CHK21		23757.03	4C			023775.40
	B,PE2D	-2D	24072.10	00			023776.00
FRCZR	L%BU,64#,WRDA,64		24120.00	80	000040.20	50	023776.40
	+%BU,64#,WRDB,0		24122.00	80	000000.20	10	023777.40
	F+%NH,SMANO		24201.05	60			024000.40
	CT0110%BU,52#,WRDA+.12,64		24120.14	80	064040.15	70	024001.00
	BZB,\$RZ,NTHWRK	-2B3	13.71	80	024005.74	00	024002.00
	CT0110%BU,44#,WRDB,20		24122.00	80	054012.15	70	024003.00
	BZB,\$RZ,NTHWRK	-2B3	13.71	80	024005.74	00	024004.00
	B,PE2B4	-2B4	24073.50	00			024005.00
NTHWRK	L%BU,52#,ALLONE,64		24236.00	80	064040.20	50	024005.40
	+%BU,44#,ALLONE,20		24236.00	80	054012.20	10	024006.40
	SHF%U#,0		0.47	20			024007.40
	CT0110%BU,48#,ALLONE,68		24236.00	80	060042.15	70	024010.00
	BZB,\$RZ,STERRA		13.71	80	024037.34	00	024011.00
	CT0110%BU,48#,ALLONE,20		24236.00	80	060012.15	70	024012.00
	BZB,\$RZ,PEX2	-X2	13.71	80	024075.34	00	024013.00
	L%BU,48#,SMANO,64		24201.00	80	060040.20	50	024014.00
	SHF%U#,0		0.47	20			024015.00
	CT0110%BU,48#,SMANO,68		24201.00	80	060042.15	70	024015.40
	BZB,\$RZ,PEX3	-X3	13.71	80	024076.74	00	024016.40
	CT0110%BU,48#,SMANO,20		24201.00	80	060012.15	70	024017.40
	BZB,\$RZ,PEX4	-X4	13.71	80	024100.34	00	024020.40
	L%BU,64#,WRDA,64		24120.00	80	000040.20	50	024021.40
	+%BU,64#,WRDB,0		24122.00	80	000000.20	10	024022.40
	SHF%U#,0		0.47	20			024023.40
	CT0110%BU,52#,WRDA+.12,64		24120.14	80	064040.15	70	024024.00
	BZB,\$RZ,PEX5	-X5	13.71	80	024101.74	00	024025.00
	CT0110%BU,44#,WRDB,20		24122.00	80	054012.15	70	024026.00
	BZB,\$RZ,PEX6	-X6	13.71	80	024103.34	00	024027.00
	L%BU,64#,WRDA+1.,64		24121.00	80	000040.20	50	024030.00
	+%BU,64#,WRDB+1.,0		24123.00	80	000000.20	10	024031.00
	SHF%U#,0		0.47	20			024032.00
	CT0110%BU,52#,WRDA+1.12,64		24121.14	80	064040.15	70	024032.40
	BZB,\$RZ,PEX7	-X7	13.71	80	024104.74	00	024033.40
	CT0110%BU,44#,WRDB+1.,20		24123.00	80	054012.15	70	024034.40
	BZB,\$RZ,PEX8	-X8	13.71	80	024106.34	00	024035.40
	B,PEX9	-X9	24107.50	00			024036.40
STERRA	CT0110%BU,48#,ALLONE,20		24236.00	80	060012.15	70	024037.00
	BZB,\$RZ,STERRB	-X11	13.71	80	024041.74	00	024040.00
	B,PEX10	-X10	24111.10	00			024041.00
STERRB	L%BU,64#,SMANO,64		24201.00	80	000040.20	50	024041.40
	SHF%U#,0		0.47	20			024042.40
	CT0110%BU,48#,SMANO,68		24201.00	80	060042.15	70	024043.00
	BZB,\$RZ,STERRC	-X13	13.71	80	024045.74	00	024044.00
	B,PEX12	-X12	24112.50	00			024045.00
STERRC	CT0110%BU,48#,SMANO,20		24201.00	80	060012.15	70	024045.40
	BZB,\$RZ,PEX15	-X15	13.71	80	024115.74	00	024046.40
	B,PEX14	-X14	24114.10	00			024047.40
PE16DA	SIC,SEN		1310.00	80			024050.00
	B,SERS	-L4 SHIFT HI 52 BITS-101-CHANCE	1304.10	00			024050.40
		-SH DEC					
	B,SHFL4+6.32		22517.10	00			024051.00
PE16DB	SIC,SEN		1310.00	80			024051.40
	B,SERS	-L4 SHIFT LOW 44 BITS-101	1304.10	00			024052.00
	B,SHFL4+6.32		22517.10	00			024052.40
PE16DC	SIC,SEN		1310.00	80			024053.00
	B,SERS	-L4 SHIFT HI 51 BITS-010	1304.10	00			024053.40
	B,SHFL4+6.32		22517.10	00			024054.00
PE16DD	SIC,SEN		1310.00	80			024054.40
	B,SERS	-L4 SHIFT LOW 63-106 BITS-010	1304.10	00			024055.00
	B,SHFL4+6.32		22517.10	00			024055.40
PE16DE	SIC,SEN		1310.00	80			024056.00
	B,SERS	-64 SHIFT BIT 107	1304.10	00			024056.40
	B,SHFL4+6.32		22517.10	00			024057.00

PE16DF	SIC,SEN		1310.00 80	024057.40
	B,SERS	-L4 BIT 16 WHEN ZERO	1304.10 00	024060.00
	B,SHFL4+6.32		22517.10 00	024060.40
PE16C	SIC,SEN		1310.00 80	024061.00
	B,SERS	-GATE 71-72 OR L4 PRE SHIFT DEC	1304.10 00	024061.40
	B,SHFL4+6.32		22517.10 00	024062.00
PE2NA	SIC,SEN		1310.00 80	024062.40
	B,SERS	-ZERO SHIFT HI 52 BITS	1304.10 00	024063.00
	B,SHF0+6.32		22376.10 00	024063.40
PE2NB	SIC,SEN		1310.00 80	024064.00
	B,SERS	-ZERO SHIFT LOW 44 BITS	1304.10 00	024064.40
	B,SHF0+6.32		22376.10 00	024065.00
PE2P	SIC,SEN		1310.00 80	024065.40
	B,SERS	-ZERO PRE SHIFT DECODING	1304.10 00	024066.00
	B,SHF0+6.32		22376.10 00	024066.40
PE2EA	SIC,SEN		1310.00 80	024067.00
	B,SERS	-GATE 21-22 HI 52 BITS	1304.10 00	024067.40
	B,SHF0+6.32		22376.10 00	024070.00
PE2EB	SIC,SEN		1310.00 80	024070.40
	B,SERS	-GATE 21-22 LOW 44 BITS	1304.10 00	024071.00
	B,SHF0+6.32		22376.10 00	024071.40
PE2D	SIC,SEN		1310.00 80	024072.00
	B,SERS	-GATE 1-2 OR SHF NOT WORKING	1304.10 00	024072.40
	B,SHF0+6.32		22376.10 00	024073.00
PE2B4	SIC,SEN		1310.00 80	024073.40
	B,SERS	-FORCE ZERO SHIFT-SHIFT CTL C	1304.10 00	024074.00
	B,SHF0+6.32		22376.10 00	024074.40
PEX2	SIC,SEN		1310.00 80	024075.00
	B,SERS	-LOW-48 BITS-111-ADD-F-AC 1B	1304.10 00	024075.40
	B,SHF0+6.32		22376.10 00	024076.00
PEX3	SIC,SEN		1310.00 80	024076.40
	B,SERS	-LOW-48 BITS-000-ONES OK	1304.10 00	024077.00
	B,SHF0+6.32		22376.10 00	024077.40
PEX4	SIC,SEN		1310.00 80	024100.00
	B,SERS	-LOW-48 BITS-000-ONES OK	1304.10 00	024100.40
	B,SHF0+6.32		22376.10 00	024101.00
PEX5	SIC,SEN		1310.00 80	024101.40
	B,SERS	-111 AND 000 OK-ER IN HI 52-101	1304.10 00	024102.00
	B,SHF0+6.32		22376.10 00	024102.40
PEX6	SIC,SEN		1310.00 80	024103.00
	B,SERS	-111 AND 000 OK-ER IN LOW 44-101	1304.10 00	024103.40
	B,SHF0+6.32		22376.10 00	024104.00
PEX7	SIC,SEN		1310.00 80	024104.40
	B,SERS	-111 AND 000 AND 101 OK-ER IN	1304.10 00	024105.00
		-HI52-010		
	B,SHF0+6.32		22376.10 00	024105.40
PEX8	SIC,SEN		1310.00 80	024106.00
	B,SERS	-111 A000 A 101 A HI 52 010 OK E	1304.10 00	024106.40
		-IN LOW 44-010		
	B,SHF0+6.32		22376.10 00	024107.00
PEX9	SIC,SEN		1310.00 80	024107.40
	B,SERS	-INTERMITENT ERROR	1304.10 00	024110.00
	B,SHF0+6.32		22376.10 00	024110.40
PEX10	SIC,SEN		1310.00 80	024111.00
	B,SERS	-HI 48 BITS-111	1304.10 00	024111.40
	B,SHF0+6.32		22376.10 00	024112.00
PEX12	SIC,SEN		1310.00 80	024112.40
	B,SERS	-HI 48 AND LOW 48 BITS-111	1304.10 00	024113.00
	B,SHF0+6.32		22376.10 00	024113.40
PEX14	SIC,SEN		1310.00 80	024114.00
	B,SERS	-LOW 48 000 OK-ER IN HI A LOW	1304.10 00	024114.40
		-111 A HI 48-000		
	B,SHF0+6.32		22376.10 00	024115.00
PEX15	SIC,SEN		1310.00 80	024115.40
	B,SERS	-ERROR IN EVERY THING TRIED	1304.10 00	024116.00
	B,SHF0+6.32		22376.10 00	024116.40

XA	X W,0 ,2, XA									0.00 00 000040.50 4F	024117.00
WRDA	%8DDD%BUH, 0 000 125 252 525 252 525 252									000012525252525252525252	024120.00
	%8DDD%BUH, 0 000 052 525 252 525 252 525									000005252525252525252525	024121.00
WRDB	%8DDD%BUH, 1 252 525 252 525 250 000 000									1252525252525250000000	024122.00
	%8DDD%BUH, 0 525 252 525 252 524 000 000									0525252525252524000000	024123.00
WRDAR1	%8DDD%BUH, 0 000 052 525 252 525 252 525									0000052525252525252525	024124.00
	%8DDD%BUH, 0 000 025 252 525 252 525 252									0000025252525252525252	024125.00
WRDBR1	%8DDD%BUH, 0 525 252 525 252 524 000 000									0525252525252524000000	024126.00
	%8DDD%BUH, 1 252 525 252 525 250 000 000									1252525252525250000000	024127.00
WRDAR2	%8DDD%BUH, 0 000 025 252 525 252 525 252									0000025252525252525252	024130.00
	%8DDD%BUH, 0 000 012 525 252 525 252 525									0000012525252525252525	024131.00
WRDBR2	%8DDD%BUH, 1 252 525 252 525 250 000 000									1252525252525250000000	024132.00
	%8DDD%BUH, 0 525 252 525 252 524 000 000									0525252525252524000000	024133.00
WRDAR3	%8DDD%BUH, 0 000 012 525 252 525 252 525									0000012525252525252525	024134.00
	%8DDD%BUH, 0 000 005 252 525 252 525 252									0000005252525252525252	024135.00
WRDBR3	%8DDD%BUH, 0 525 252 525 252 524 000 000									0525252525252524000000	024136.00
	%8DDD%BUH,1252525252525250000000									1252525252525250000000	024137.00
WRDAR4	%8DDD%BUH,0000005252525252525252									0000005252525252525252	024140.00
	%8DDD%BUH, 0 000 002 525 252 525 252 525									0000002525252525252525	024141.00
WRDBR4	%8DDD%BUH, 1 252 525 252 525 250 000 000									1252525252525250000000	024142.00
	%8DDD%BUH, 0 525 252 525 252 524 000 000									0525252525252524000000	024143.00
WRDAL1	%8DDD%BUH, 0 000 052 525 252 525 252 525									0000052525252525252525	024144.00
	%8DDD%BUH, 0 000 125 252 525 252 525 252									0000125252525252525252	024145.00
WRDBL1	%8DDD%BUH, 0 525 252 525 252 520 000 000									0525252525252520000000	024146.00
	%8DDD%BUH, 1 252 525 252 525 250 000 000									1252525252525250000000	024147.00
WRDAL2	%8DDD%BUH, 0 000 125 252 525 252 525 252									0000125252525252525252	024150.00
	%8DDD%BUH, 0 000 052 525 252 525 252 525									0000052525252525252525	024151.00
WRDBL2	%8DDD%BUH, 1 252 525 252 525 240 000 000									1252525252525240000000	024152.00
	%8DDD%BUH, 0 525 252 525 252 520 000 000									0525252525252520000000	024153.00
WRDAL3	%8DDD%BUH, 0 000 052 525 252 525 252 525									0000052525252525252525	024154.00
	%8DDD%BUH, 0 000 125 252 525 252 525 252									0000125252525252525252	024155.00
WRDBL3	%8DDD%BUH,052525252525252500000000									052525252525252500000000	024156.00
	%8DDD%BUH, 1 252 525 252 525 240 000 000									1252525252525240000000	024157.00
WRDAL4	%8DDD%BUH, 0 000 125 252 525 252 525 252									0000125252525252525252	024160.00
	%8DDD%BUH, 0 000 052 525 252 525 252 525									0000052525252525252525	024161.00
WRDBL4	%8DDD%BUH, 1 252 525 252 525 200 000 000									1252525252525200000000	024162.00
	%8DDD%BUH, 0 525 252 525 252 500 000 000									052525252525252500000000	024163.00
ADDRA	%8DDD%BUH, 0 000 052 525 252 525 252 520									0000052525252525252520	024164.00
ADDR1C	%8DDD%BUH,0000525252525252525240									0000525252525252525240	024165.00
RESR1	%8DDD%BUH,0000552525252525252500									0000552525252525252500	024166.00
ADDR2C	%8DDD%BUH, 0 001 125 252 525 252 525 240									0001125252525252525240	024167.00
RESR2	%8DDD%BUH, 0 001 137 777 777 777 777 760									0001137777777777777760	024170.00
ADDR3C	%8DDD%BUH, 0 001 525 252 525 252 525 240									0001525252525252525240	024171.00
RESR3	%8DDD%BUH,0001532525252525252500									0001532525252525252500	024172.00
ADDR4C	%8DDD%BUH, 0 002 125 252 525 252 525 240									0002125252525252525240	024173.00
RESR4	%8DDD%BUH, 0 002 127 777 777 777 777 760									0002127777777777777760	024174.00
ADR10C	%8DDD%BUH, 0 005 125 252 525 252 525 240									0005125252525252525240	024175.00
RESR10	%8DDD%BUH, 0 005 125 277 777 777 777 760									0005125277777777777760	024176.00
NORR1	%8DDD%BUH, 0 000 140 000 000 000 000 000									0000140000000000000000	024177.00
NRESR1	%8DDD%BUH, 0 001 102 525 252 525 252 520									0001102525252525252520	024200.00
SMAN0	%8DDD%BUH, 0 000 000 000 000 000 000 000									0000000000000000000000	024201.00
SMANR1	%8DDD%BUH, 0 000 600 000 000 000 000 000									0000600000000000000000	024202.00
SMANR2	%8DDD%BUH, 0 001 200 000 000 000 000 000									0001200000000000000000	024203.00
SMANR3	%8DDD%BUH, 0 001 600 000 000 000 000 000									0001600000000000000000	024204.00
SMANR4	%8DDD%BUH, 0 002 200 000 000 000 000 000									0002200000000000000000	024205.00
SMANL1	%8DDD%BUH, 0 000 400 000 000 000 000 000									0000400000000000000000	024206.00
SMANL2	%8DDD%BUH, 0 001 000 000 000 000 000 000									0001000000000000000000	024207.00
SMANL3	%8DDD%BUH, 0 001 400 000 000 000 000 000									0001400000000000000000	024210.00
SMANL4	%8DDD%BUH, 0 002 000 000 000 000 000 000									0002000000000000000000	024211.00
NORL1	%8DDD%BUH,000005200000000000000000									0000052000000000000000	024212.00
NORL2	%8DDD%BUH,000002500000000000000000									0000025000000000000000	024213.00
NORL3	%8DDD%BUH,000001240000000000000000									0000012400000000000000	024214.00
NORL4	%8DDD%BUH,000000520000000000000000									0000005200000000000000	024215.00
NORL5A	%8DDD%BUH,0000402525252525252520									0000402525252525252520	024216.00
NORL5B	%8DDD%BUH,0000403252525252525240									0000403252525252525240	024217.00
NORL7	%8DDD%BUH, 0000005200000000000000									0000005200000000000000	024220.00

NORL8	%8DD%BU,0000000250000000000000	0000000250000000000000	024221.00
NORL13	%8DD%BU,0000000000520000000000	0000000052000000000000	024222.00
NRESL1	%8DD%BU,0000724000000000000000	0000724000000000000000	024223.00
NRESL2	%8DD%BU,0001324000000000000000	0001324000000000000000	024224.00
NRESL3	%8DD%BU,0001724000000000000000	0001724000000000000000	024225.00
NRESL4	%8DD%BU,0002324000000000000000	0002324000000000000000	024226.00
NRESL7	%8DD%BU,0003724000000000000000	0003724000000000000000	024227.00
NRESL8	%8DD%BU,0004324000000000000000	0004324000000000000000	024230.00
NRSL13	%8DD%BU,0006724000000000000000	0006724000000000000000	024231.00
NORL6A	%8DD%BU,0000401252525252525240	0000401252525252525240	024232.00
NORL6B	%8DD%BU,0000401525252525252520	0000401525252525252520	024233.00
AEXPA	%8DD%BU,0000125252525252525240	0000125252525252525240	024234.00
AEXPB	%8DD%BU,0000052525252525252520	0000052525252525252520	024235.00
ALLONE	%8DD%BU,1777777777777777777777	1777777777777777777777	024236.00
SRSG	%8DD%BU, 0 000 000 000 000 000 000 000	0000000000000000000000	024237.00
SRCNSA	%8DD%BU, 1 420 000 000 000 000 000 000	1420000000000000000000	024240.00
SRCNSB	%8DD%BU, 1 440 000 000 000 000 000 000	1440000000000000000000	024241.00
SRCNSC	%8DD%BU, 1 604 740 000 000 000 000 000	1604740000000000000000	024242.00
SRNDC	NOP	0.30 00	024243.00
	CNOP	0.30 00	024243.40
	B,S+1.	24245.10 00	024244.00
	B,SRNDT	23675.50 00	024244.40
	SIC,SENO+.32.	1311.40 80	024245.00
	B,SSW	1301.10 00	024245.40

-TEST ROUTINE NUMBER F302 FOR PAU MAIN ADDER
 -DIRECT INPUTS TO THE ADDER ARE CALLED A INPUTS, LOOP INPUTS
 -ARE CALLED B. ADDER POSITIONS 2-97 ARE CHECKED FIRST,
 -THE OTHER POSITIONS ARE CHECKED LATER.
 -INTRA GROUP SUM GENERATING CIRCUIT TESTS FOR POSITIONS 2-97
 -START HERE. THESE ARE THE CIRCUITS ON THE GROUP ZK CARDS

PMA1	BD,S+,32		24246.44	00			024246.00
	LX,SX13,PMA		22001.32	10			024246.40
	SX,SX13,DPET13		1437.33	10			024247.00
	SIC,RET1		1306.40	80			024247.40
	B,IDF1		1443.10	00			024250.00
	Z,SX12		34.22	00			024250.40
F302A1	DL%U□,0	-ZERO A AND B INPUTS 2-97	0.44	60			024251.00
	CT0101%BU,48□,DPMA1,68	-CHECK POS. 2-49 OF ADDER	25137.00	80	060042.13	70	024251.40
	SIC,SEN		1310.00	80			024252.40
	BRGZ,SERS		1304.35	42			024253.00
	CT0101%BU,48□,DPMA1,20	-CHECK POS. 50-97 OF ADDER	25137.00	80	060012.13	70	024253.40
	SIC,SEN		1310.00	80			024254.40
	BRGZ,SERS		1304.35	42			024255.00
F302A2	C0011%BU,60□,DPMA1,68		25137.00	80	074042.06	70	024255.40
	C0011%BU,48□,DPMA1+.12,20	-COMPLETES SETTING ACC.POS. -12-107 TO 1010 ETC.	25137.14	80	060012.06	70	024256.40
	D+%U□,0	-EVEN A INPUTS 2-97 ARE 1,ALL -OTHERS ZERO	0.44	20			024257.40
	CT0110%BU,48□,DPMA1+.12,68	-CHECK POS. 2-49 OF ADDER	25137.14	80	060042.15	70	024260.00
	SIC,SEN		1310.00	80			024261.00
	BRGZ,SERS		1304.35	42			024261.40
	CT0110%BU,48□,DPMA1+.12,20	-CHECK ADDER POS. 50-97	25137.14	80	060012.15	70	024262.00
	SIC,SEN		1310.00	80			024263.00
	BRGZ,SERS		1304.35	42			024263.40
F302A3	C0011%BU,60□,DPMA2,68		25140.00	80	074042.06	70	024264.00
	C0011%BU,48□,DPMA2+.12,20	-COMPLETES SETTING ACC. POS -12-107 TO 1010 ETC.	25140.14	80	060012.06	70	024265.00
	D+%U□,0	-ODD A INPUTS 2-97 ARE 1, ALL -OTHERS ZERO	0.44	20			024266.00
	CT0110%BU,48□,DPMA2+.12,68	-CHECK POS. 2-49 OF ADDER	25140.14	80	060042.15	70	024266.40
	SIC,SEN		1310.00	80			024267.40
	BRGZ,SERS		1304.35	42			024270.00
	CT0110%BU,48□,DPMA2+.12,20	-CHECK ADDER POS. 50-97	25140.14	80	060012.15	70	024270.40
	SIC,SEN		1310.00	80			024271.40
	BRGZ,SERS		1304.35	42			024272.00
F302A4	L%BU□,0	-CLEAR ACCUMULATOR	0.00	80	000000.20	50	024272.40
	+%U□,DPMA1	-EVEN B INPUTS 2-49 ARE 1, ALL -OTHERS ZERO	25137.40	20			024273.40
	CT0110%BU,48□,DPMA1+.12,68		25137.14	80	060042.15	70	024274.00
	SIC,SEN		1310.00	80			024275.00
	BRGZ,SERS		1304.35	42			024275.40
	L%BU□,0		0.00	80	000000.20	50	024276.00
	D+%U□,DPMA3	-EVEN B INPUTS 50-97 ARE 1, -ALL OTHERS ZERO	25141.44	20			024277.00
	CT0110%BU,48□,DPMA1+.12,20		25137.14	80	060012.15	70	024277.40
	SIC,SEN		1310.00	80			024300.40
	BRGZ,SERS		1304.35	42			024301.00
F302A5	L%BU□,0		0.00	80	000000.20	50	024301.40
	+%U□,DPMA2	-ODD B INPUTS 2-49 ARE 1, ALL -OTHERS ZERO	25140.40	20			024302.40
	CT0110%BU,48□,DPMA2+.12,68		25140.14	80	060042.15	70	024303.00
	SIC,SEN		1310.00	80			024304.00
	BRGZ,SERS		1304.35	42			024304.40
	L%BU□,0		0.00	80	000000.20	50	024305.00
	D+%U□,DPMA4	-ODD B INPUTS 50-97 ARE 1, -ALL OTHERS ZERO	25142.44	20			024306.00

	CT0110%BU,48□,DPMA2+.12,20		25140.14	80	060012.15	70	024306.40
	SIC,SEN		1310.00	80			024307.40
		BRGZ,SERS	1304.35	42			024310.00
F302A6	L%U□,DPMA2		25140.40	60			024310.40
	+%U□,DPMA2	-ODD A AND B INPUTS 2-49 ARE 1, -ALL OTHERS ZERO	25140.40	20			024311.00
	CT0110%BU,48□,DPMA1+.12,68		25137.14	80	060042.15	70	024311.40
	SIC,SEN		1310.00	80			024312.40
		BRGZ,SERS	1304.35	42			024313.00
	L%BU,48□,DPMA2+.12,20		25140.14	80	060012.20	50	024313.40
	D+%U□,DPMA4	-ODD A AND B INPUTS 50-97 ARE -1,ALL OTHERS ZERO	25142.44	20			024314.40
	CT0110%BU,48□,DPMA1+.12,20		25137.14	80	060012.15	70	024315.00
	SIC,SEN		1310.00	80			024316.00
		BRGZ,SERS	1304.35	42			024316.40
F302A7	L%U□,DPMA1		25137.40	60			024317.00
	BLCZ,S+.32		24320.13	46			024317.40
	+%U□,DPMA1	-EVEN A AND B INPUT 2-49 ARE 1, -ALL OTHERS ZERO	25137.40	20			024320.00
	CT0110%BU,47□,DPMA2+.12,69		25140.14	80	057042.55	70	024320.40
	SIC,SEN		1310.00	80			024321.40
		BRGZ,SERS	1304.35	42			024322.00
	SIC,SEN		1310.00	80			024322.40
	BZLC,SERS	-TO CHECK FOR CARRY FROM ADDER -POSITION 2	1304.13	40			024323.00
	BZB,8.59,S+2.		10.73	80	024325.74	00	024323.40
	SIC,SEN		1310.00	80			024324.40
		B,SERS	1304.10	00			024325.00
	L%BU,48□,DPMA1+.12,20		25137.14	80	060012.20	50	024325.40
	D+%U□,DPMA3	-EVEN A AND B INPUTS 50-97 ARE -1,ALL OTHERS ZERO	25141.44	20			024326.40
	CT0110%BU,48□,DPMA1+.12,21		25137.14	80	060012.55	70	024327.00
	SIC,SEN		1310.00	80			024330.00
		BRGZ,SERS	1304.35	42			024330.40
	BD,S+1.0		24332.04	00			024331.00
		B,PM1	24246.10	00			024331.40
	SIC,SEN0+.32		1311.40	80			024332.00
		B,SSW	1301.10	00			024332.40

-FIRST LEVEL CARRY LOOK AHEAD CIRCUITS TESTS, POS.4-97 START
 -HERE
 -THOSE HAVING INPUTS ORIGINATING OUTSIDE THE GROUP ARE NOT
 -INCLUDED HERE

F302B1	L%U□,DPMA5		25143.40	60		024333.00
	+%U□,DPMA6	-C1,T2,T3 FOR THE 11 HIGH	25144.40	20		024333.40
	CT0110%BU,48□,DPMA10+.12,68	-ORDER GROUPS,EXCLUDING THE -HIGHEST ORDER GROUP	25150.14	80	060042.15 70	024334.00
	SIC,SEN		1310.00	80		024335.00
	BRGZ,SERS		1304.35	42		024335.40
	L%BU,48□,DPMA7,23	-C1,T2,T3 -OF THE NEXT 12 GROUPS	25145.00	80	060013.60 50	024336.00
	D+%U□,DPMA9		25147.44	20		024337.00
	CT0110%BU,48□,DPMA9+.12,23		25147.14	80	060013.55 70	024337.40
	SIC,SEN		1310.00	80		024340.40
	BRGZ,SERS		1304.35	42		024341.00
F302B2	L%U□,DPMA11		25151.40	60		024341.40
	+%U□,DPMA12		25152.40	20		024342.00
	CT0110%BU,48□,DPMA13+.12,68	-GROUPS, NOT COUNTING THE HIGH	25153.14	80	060042.15 70	024342.40
	SIC,SEN		1310.00	80		024343.40
	BRGZ,SERS	-ORDER GROUP	1304.35	42		024344.00
	L%BU,48□,DPMA11+.12,20		25151.14	80	060012.20 50	024344.40
	D+%U□,DPMA14	-CARRY FROM NEXT TO LOW ORDER -POS.	25154.44	20		024345.40
	CT0110%BU,48□,DPMA13+.12,20	-OF NEXT 12 GROUPS	25153.14	80	060012.15 70	024346.00
	SIC,SEN		1310.00	80		024347.00
	BRGZ,SERS		1304.35	42		024347.40
F302B3	L%U□,DPMA15		25155.40	60		024350.00
	+%U□,DPMA15	-C3	25155.40	20		024350.40
	CT0110%BU,48□,DPMA13+.12,68	-OF 12 HIGH ORDER GROUPS,NOT -COUNTING THE HIGH ORDER GROUP	25153.14	80	060042.15 70	024351.00
	SIC,SEN		1310.00	80		024352.00
	BRGZ,SERS		1304.35	42		024352.40
	L%BU,48□,DPMA15+.12,20		25155.14	80	060012.20 50	024353.00
	D+%U□,DPMA16	-C3	25156.44	20		024354.00
	CT0110%BU,48□,DPMA13+.12,20	-OF THE NEXT 12 GROUPS	25153.14	80	060012.15 70	024354.40
	SIC,SEN		1310.00	80		024355.40
	BRGZ,SERS		1304.35	42		024356.00
	B,\$+1.		24357.50	00		024356.40
	B,F302B1		24333.10	00		024357.00
	SIC,SEN0+.32		1311.40	80		024357.40
	B,SSW		1301.10	00		024360.00

-GROUP CARRY AND GROUP TRANSMIT CIRCUIT TESTS FOR ALL GROUPS
 -EXCEPTING THE HIGH ORDER GROUP AND THE LOW ORDER GROUP START

F302C1	L%BU, DPMA13, 64 +%U, DPMA13		25153.00 80 000040.20 50 25153.40 20	024360.40 024361.40
		-12 HIGH ORDER GROUPS, -NOT COUNTING THE HIGH ORDER -GROUP		
	CT0110%BU, 48, DPMA13+.13, 68		25153.15 80 060042.15 70	024362.00
	SIC, SEN BRGZ, SERS		1310.00 80 1204.35 42	024363.00 024363.40
	L%BU, 48, DPMA13+.12, 20 D+%U, DPMA17	-C4 FOR -THE NEXT 12 GROUPS	25153.14 80 060012.20 50 25157.44 20	024364.00 024365.00
	CT0110%BU, 48, DPMA13+.13, 20		25153.15 80 060012.15 70	024365.40
	SIC, SEN BRGZ, SERS		1310.00 80 1304.35 42	024366.40 024367.00
F302C2	L%BU, DPMA18, 64 +%U, DPMA15	-C3 AND T4	25160.00 80 000040.20 50 25155.40 20	024367.40 024370.40
	CT0110%BU, 48, DPMA13+.13, 68	-FROM HIGH ORDER POS. OF 12	25153.15 80 060042.15 70	024371.00
	SIC, SEN BRGZ, SERS	-HIGH ORDER GROUPS, EXCEPT THE -FIRST	1310.00 80 1304.35 42	024372.00 024372.40
	L%BU, 48, DPMA18+.12, 20 D+%U, DPMA16	-SAME AS PRECEDING TEST, EXCEPT	25160.14 80 060012.20 50 25156.44 20	024373.00 024374.00
	CT0110%BU, 48, DPMA13+.13, 20	-THIS TREATS THE NEXT 12 GROUPS	25153.15 80 060012.15 70	024374.40
	SIC, SEN BRGZ, SERS		1310.00 80 1304.35 42	024375.40 024376.00
F302C3	L%BU, DPMA19, 64 +%U, DPMA12	-CARRY FROM NEXT TO LOWEST -POSITION WITH TRANSMITS	25161.00 80 000040.20 50 25152.40 20	024376.40 024377.40
	CT0110%BU, 48, DPMA13+.13, 68	-FROM THE TWO NEXT HIGHER -POSITIONS	25153.15 80 060042.15 70	024400.00
	SIC, SEN BRGZ, SERS	-OF THE 12 HI ORDER GROUPS, -EXCLUDING THE FIRST	1310.00 80 1304.35 42	024401.00 024401.40
	L%BU, 48, DPMA19+.12, 20 D+%U, DPMA14	-SAME AS PRECEDING TEST, EXCEPT	25161.14 80 060012.20 50 25154.44 20	024402.00 024403.00
	CT0110%BU, 48, DPMA13+.13, 20	-THIS TREATS THE NEXT 12 GROUPS	25153.15 80 060012.15 70	024403.40
	SIC, SEN BRGZ, SERS		1310.00 80 1304.35 42	024404.40 024405.00
F302C4	L%BU, DPMA20, 64 +%U, DPMA21	-CARRY FROM LOW ORDER POS. AND -TRANSMITS FROM -OTHER 3 POSITIONS OF 6 -ALTERNATE GROUPS, BEGINNING	25162.00 80 000040.20 50 25163.40 20	024405.40 024406.40
	CT0110%BU, 48, DPMA22+.12, 68	-WITH NEXT TO HIGHEST GROUP	25164.14 80 060042.15 70	024407.00
	SIC, SEN BRGZ, SERS		1310.00 80 1304.35 42	024410.00 024410.40
	L%BU, 48, DPMA20+.12, 20 D+%U, DPMA23	-SAME AS PRECEDING TEST, EXCEPT -THIS TREATS NEXT	25162.14 80 060012.20 50 25165.44 20	024411.00 024412.00
	CT0110%BU, 48, DPMA22+.12, 20	-LOWER-ORDER GROUPS	25164.14 80 060012.15 70	024412.40
	SIC, SEN BRGZ, SERS		1310.00 80 1304.35 42	024413.40 024414.00
F3024C	L%BU, 36, DPMA20+.13, 75 +%U, DPMA24	-SAME AS TEST PRECEDING THE ONE -JUST ABOVE, EXCEPT	25162.15 80 044045.60 50 25166.40 20	024414.40 024415.40
	CT0110%BU, 48, DPMA25+.12, 68	-THAT THIS TEST TREATS THE -GROUPS WHICH THAT ONE ALTERNATE -WITH	25167.14 80 060042.15 70	024416.00
	SIC, SEN BRGZ, SERS		1310.00 80 1304.35 42	024417.00 024417.40
	L%BU, 36, DPMA20+.13, 27		25162.15 80 044015.60 50	024420.00

D+%U, DPMA26	-CONTINUES TESTING OF THE	25170.44 20	024421.00
	-ALTERNATE GROUPS BEGUN		
CT0110%BU, 48, DPMA25+.12, 20	-IN THE TEST JUST ABOVE, EXCEPT	25167.14 80 060012.15 70	024421.40
SIC, SEN		1310.00 80	024422.40
BRGZ, SERS	-FOR THE HI ORDER AND 2 LOW	1304.35 42	024423.00
	-ORDER GROUPS		
B, S+1.		24424.50 00	024423.40
B, F302C1		24360.50 00	024424.00
SIC, SEND+.32		1311.40 80	024424.40
D, SSW		1301.10 00	024425.00

-GROUP TRANSMIT CIRCUIT TESTS BEGIN HERE, IN THIS SECTION ALL
 -GROUPS ARE CHECKED, EXCEPT FOR THE HIGH ORDER GROUP AND
 -THE TWO LOW ORDER GROUPS.
 -UNAVOIDABLY INCLUDED ARE TESTS OF THE 2 WAY AND CIRCUITS IN
 -THE SECOND LEVEL CARRY LOOK AHEAD.

F302C5	L%BU, DPMA60, 64		25232.00	80	000040.20	50	024425.40
	+%U, DPMA27	-GROUP TRANSMIT FROM 6 ALTERNATE	25171.40	20			024426.40
		-HI ORDER GROUPS, EXCLUDING					
	CT0110%BU, 48, DPMA22+, 12, 68	-THE HIGH ORDER GROUP	25164.14	80	060042.15	70	024427.00
	SIC, SEN		1310.00	80			024430.00
	BRGZ, SERS		1304.35	42			024430.40
F302C6	L%BU, DPMA28, 20		25172.00	80	000012.20	50	024431.00
	D+%U, DPMAY		25246.44	20			024432.00
		-NEXT ALTERNATE					
	CT0110%BU, 48, DPMA2+, 12, 20	-FIVE LOW ORDER GROUPS	25245.14	80	060012.15	70	024432.40
	SIC, SEN		1310.00	80			024433.40
	BRGZ, SERS		1304.35	42			024434.00
F302C7	L%BU, DPMA28, 64		25172.00	80	000040.20	50	024434.40
	+%U, DPMA30	-GROUP TRANSMIT FROM 6 ALTERNATE	25174.40	20			024435.40
		-HI ORDER GROUPS,					
	CT0110%BU, 48, DPMA25+, 12, 68	-EXCLUDING THE TWO HI ORDER	25167.14	80	060042.15	70	024436.00
		-GROUPS					
	SIC, SEN		1310.00	80			024437.00
	BRGZ, SERS		1304.35	42			024437.40
F302C8	L%BU, 60, DPMA31, 20		25175.00	80	074012.20	50	024440.00
	D+%U, DPMA32	-GROUP TRANSMIT FORM 6 ALTERNATE	25176.44	20			024441.00
		-LOW ORDER GROUPS,					
	CT0110%BU, 48, DPMA33+, 12, 20	-EXCLUDING THE 3 LOW ORDER	25177.14	80	060012.15	70	024441.40
		-GROUPS					
	SIC, SEN		1310.00	80			024442.40
	BRGZ, SERS		1304.35	42			024443.00
	B, S+1.		24444.50	00			024443.40
	B, F302C5		24425.50	00			024444.00
	SIC, SEN0+, 32		1311.40	80			024444.40
	B, SSW		1301.10	00			024445.00

-A CONTINUATION OF THE FIRST LEVEL CARRY LOOK AHEAD CIRCUIT
 -TESTS F302B STARTS HERE. THESE TESTS CHECK THE SUBJECT
 -CIRCUITS HAVING INPUTS FROM CARRIES ORIGINATING OUTSIDE
 -THE GROUP

F302D1	L%BU, DPMA34, 64	-THIS TEST CHECKS THE 1-INPUT -AND CIRCUIT	25200.00	80	000040.20	50	024445.40
	+%U, DPMA34	-OF THE ZL CARD FOR THE 11 HI -ORDER GROUPS	25200.40	20			024446.40
	CT0110%BU, 48, DPMA34+, 13, 68 SIC, SEN	-NOT COUNTING THE FIRST	25200.15	80	060042.15	70	024447.00
	BRGZ, SERS		1310.00	80			024450.00
	L%BU, 48, DPMA34+, 12, 20	-CHECKS THE 1-INPUT AND CIRCUIT -OF	25200.14	80	060012.20	50	024451.00
	D+%U, DPMA35	-THE ZL CARD FOR THE 11 LOW -ORDER GROUPS, NOT	25201.44	20			024452.00
	CT0110%BU, 48, DPMA34+, 13, 20 SIC, SEN	-COUNTING THE LOW ORDER GROUP	25200.15	80	060012.15	70	024452.40
	BRGZ, SERS		1310.00	80			024453.40
			1304.35	42			024454.00
F302D2	L%BU, DPMA36, 64	-CHECKS THE 2-INPUT AND CIRCUIT	25202.00	80	000040.20	50	024454.40
	+%U, DPMA37	-%OF THE ZL CARD FED BY THE -CARRY FROM OUTSIDE	25203.40	20			024455.40
	CT0110%BU, 48, DPMA38+, 12, 68 SIC, SEN	-THE GROUP, FOR THE 11 HI ORDER -GR 5, NOT COUNTING THE FIRST GR	25204.14	80	060042.15	70	024456.00
	BRGZ, SERS		1310.00	80			024457.00
			1304.35	42			024457.40
	L%BU, 48, DPMA39+, 10, 22	-CHECKS THE 2-INPUT AND CIRCUIT	25205.12	80	060013.20	50	024460.00
	D+%U, DPMA40	-FOR THE NEXT 12 GROUPS	25206.44	20			024461.00
	CT0110%BU, 48, DPMA41+, 10, 22 SIC, SEN		25207.12	80	060013.15	70	024461.40
	BRGZ, SERS		1310.00	80			024462.40
			1304.35	42			024463.00
F302D3	L%BU, DPMA42, 64	-CHECKS THE 3-INPUT AND CIRCUIT	25210.00	80	000040.20	50	024463.40
	+%U, DPMA43	-%OF THE ZLCARD FED BY THE -CARRY FROM OUTSIDE	25211.40	20			024464.40
	CT0110%BU, 48, DPMA44+, 12, 68 SIC, SEN	-THE GROUP, FOR THE 11 HI ORDE -GROUPS NOT COUNTING THE FIRST -GROUP	25212.14	80	060042.15	70	024465.00
	BRGZ, SERS		1310.00	80			024466.00
			1304.35	42			024466.40
	L%BU, 48, DPMA45+, 10, 22	-CHECKS THE 3-INPUT AND CIRCUIT	25213.12	80	060013.20	50	024467.00
	D+%U, DPMA40	-FOR THE NEXT 12 GROUPS	25206.44	20			024470.00
	CT0110%BU, 48, DPMA40+, 13, 22 SIC, SEN		25206.15	80	060013.15	70	024470.40
	BRGZ, SERS		1310.00	80			024471.40
			1304.35	42			024472.00
F302D4	L%BU, DPMA46, 64	-CHECKS THE 4-INPUT AND CIRCUIT	25214.00	80	000040.20	50	024472.40
	+%U, DPMA47	-%OF THE ZLCARD FED BY THE -CARRY FROM OUTSIDE	25215.40	20			024473.40
	CT0110%BU, 48, DPMA48+, 12, 68 SIC, SEN	-THE GROUP, FOR THE 6 ALTERNATE -HIGH ORDER GROUPS,	25216.14	80	060042.15	70	024474.00
	BRGZ, SERS		1310.00	80			024475.00
		-NOT COUNTING THE FIRST	1304.35	42			024475.40
	L%BU, 48, DPMA46+, 12, 20	-CHECKS THE 4-INPUT AND CIRCUIT -FOR	25214.14	80	060012.20	50	024476.00
	D+%U, DPMA49	-THE NEXT 6 ALTERNATE HI -ORDER GROUPS,	25217.44	20			024477.00
	CT0110%BU, 48, DPMA48+, 12, 20 SIC, SEN	-NOT COUNTING THE FIRST TWO	25216.14	80	060012.15	70	024477.40
	BRGZ, SERS		1310.00	80			024500.40
			1304.35	42			024501.00
F302D5	L%U, DPMA58	-CHECKS THE 4-INPUT AND CIRCUIT	25230.40	60			024501.40
	+%U, DPMA50	-%OF THE ZL CARD FED BY THE -CARRY FROM OUTSIDE	25220.40	20			024502.00
	CT0110%BU, 48, DPMA59+, 12, 68	-THE GROUP FOR THE 5 ALTERNATE -HI ORDER GROUPS,	25231.14	80	060042.15	70	024502.40

SIC,SEN			1310.00	80		024503.40
	BRGZ,SERS	-NOT COUNTING THE FIRST	1304.35	42		024504.00
L%BU,48	DPMA46+.12,24		25214.14	80	060014.20 50	024504.40
D+%U	DPMA51	-CHECKS THE 4-INPUT AND	25221.44	20		024505.40
		-CIRCUIT FOR THE NEXT				
CT0110%BU,48	DPMA48+.12,24	-6 ALTERNATE GROUPS	25216.14	80	060014.15 70	024506.00
SIC,SEN			1310.00	80		024507.00
	BRGZ,SERS		1304.35	42		024507.40
B,s+1.			24511.10	00		024510.00
	B,F302D1		24445.50	00		024510.40
SIC,SEN0+.32			1311.40	80		024511.00
	B,SSW		1301.10	00		024511.40

-SECOND LEVEL CARRY LOOK-AHEAD TESTS START HERE. THE THREE-
 -WAY AND CIRCUITS ARE CHECKED FIRST, THEN THE FOUR-WAY ANDS,
 -THEN THE FIVE-WAY. %THE TWO-WAY ANDS WERE CHECKED BY THE
 -GROUP TRANSMIT TESTS. #

F302E1	L%BU#DPMA52,64	-TESTS THE THREE 3-WAY ANDS -FED BY GROUP TRANSMITS	25222.00	80	000040.20	50	024512.00
	+%U#DPMA53	-FROM GROUPS 3,2 SECT 5, GROUPS -5,4 SECTION 4	25223.40	20			024513.00
	CT0110%BU,48#DPMA54+.12,68	-GROUPS 2,1-SECTION4, WITH -CARRIES FROM	25224.14	80	060042.15	70	024513.40
	SIC,SEN		1310.00	80			024514.40
	BRGZ,SERS	-GROUP 1 SECTION 5, GROUP 3 -SECTION 4, GROUP 5 -SECTION 3.	1304.35	42			024515.00
	L%BU#DPMA55,16	-TESTS THE FOUR 3-WAY ANDS FED -BY GROUP TRANSMITS	25225.00	80	000010.20	50	024515.40
	D+%U#DPMA56	-FROM GROUPS 4,3 SECT 3, GROUP1 -SECT.3 AND GROUP 5	25226.44	20			024516.40
	CT0110%BU#DPMA57,16	-SECT.2, GROUPS 3,2-SECT.2, -GROUPS 5,4 - SECT. 1,	25227.00	80	000010.15	70	024517.00
	SIC,SEN		1310.00	80			024520.00
	BRGZ,SERS	-AND CARRIES FORM GROUP 2 SECT -3, GROUP 4 SECT. 2,	1304.35	42			024520.40
	B,S+1.		24522.10	00			024521.00
	B,F302E1	-GROUP 1 SECT. 2, AND GROUP 3 SECT. 1	24512.10	00			024521.40
	SIC,SEN0+.32		1311.40	80			024522.00
	B,SSW		1301.10	00			024522.40
F302E2	L%BU#DPMA61,64	-TESTS THE FOUR 3-WAY ANDS FED -BY GROUP TRANSMITS	25233.00	80	000040.20	50	024523.00
	+%U#DPMA62	-FROM GROUPS 4,3-SECT.5, -GROUP 1 SECT. 5 AND GROUP 5	25234.40	20			024524.00
	CT0110%BU,48#DPMA63+.12,68	-SECT.4, GROUPS3,2-SECT.4, -GROUPS 5,4 -	25235.14	80	060042.15	70	024524.40
	SIC,SEN		1310.00	80			024525.40
	BRGZ,SERS	-SECT 3, AND CARRIES FROM GROUP -2 SECT.5, -GROUP 4 SECT 4, GROUP 1 SECT 4, -GROUP 3 SECT. 3	1304.35	42			024526.00
	L%BU,48#DPMA61+.12,20	-TESTS THE FOUR 3-WAY ANDS -FED BY GROUP	25233.14	80	060012.20	50	024526.40
	D+%U#DPMA64	-TRANSMITS FROM GROUPS 2,1 SECT. -3, GROUPS	25236.44	20			024527.40
	CT0110%BU,48#DPMA63+.12,20	-4,3-SECT.2, GROUP1 SECT.2 AND -GROUP 5	25235.14	80	060012.15	70	024530.00
	SIC,SEN		1310.00	80			024531.00
	BRGZ,SERS	-SECT.1, GROUPS3,2 SECT.1 AND	1304.35	42			024531.40
	B,S+1.		24533.10	00			024532.00
	B,F302E2	-CARRIES FROM GROUP 5 SECT. 2, GROUP 2	24523.10	00			024532.40
	SIC,SEN0+.32		1311.40	80			024533.00
	B,SSW		1301.10	00			024533.40
		-SECT.2, GROUP 4 -SECT.1, GROUP1 SECT.1.					
F302E3	L%U#DPMA65	-TESTS THE TWO 3-WAY ANDS FED -BY GROUP	25237.40	60			024534.00
	+%U#DPMA66	-TRANSMITS FROM GROUPS 4,3-SECT. -4, GROUP 1 SECT.4	25240.40	20			024534.40
	CT0110%BU,48#DPMA67+.12,68	-AND GROUP5 SECT.3 AND -CARRIES FROM	25241.14	80	060042.15	70	024535.00
	SIC,SEN		1310.00	80			024536.00
	BRGZ,SERS	-GROUP2 SECTION4, GROUP4 SECT.3.	1304.35	42			024536.40
	L%BU,60#DPMA68,20	-TESTS THE FOUR 3 WAY ANDS -BY GROUP	25242.00	80	074012.20	50	024537.00

D+%U□,PMAD79	-TRANSMITS FROM GROUPS 3,2 SECT	25363.44 20	024540.00
	-3, GROUPS		
CT0110%BU□,DPMA70,19	-5,4-SECT.2, GROUPS 2,1-SECT.2	25244.00 80 000011.55 70	024540.40
	-GROUPS 4,3 -		
SIC,SEN		1310.00 80	024541.40
BRGZ,SERS	-SECT.1 AND CARRIES FROM GROUP	1304.35 42	024542.00
	-1 SECT. 3,		
B,S+1.		24543.50 00	024542.40
B,F302E3	-GROUP 3 SECT. 2	24534.10 00	024543.00
	--GROUP 5 SECT. 1, GROUP 2 SECT. 1		
SIC,SEN0+.32		1311.40 80	024543.40
B,SSW		1301.10 00	024544.00

-TESTS FOR THE HIGH ORDER GROUP, GROUP 5 OF SECTION 5,
 -BEGIN HERE

-INTRA GROUP SUM GENERATING CIRCUITS TESTS

F302AA	L%U□,PMAD1	-ZERO INPUTS TO POSITIONS P,0,1	25247.40	60			024544.40
	CT0110%BU,48□,PMAD1+.12,68		25247.14	80	060042.15	70	024545.00
	SIC,SEN		1310.00	80			024546.00
	BRGZ,SERS		1304.35	42			024546.40
	B,\$+1.		24550.10	00			024547.00
	B,F302AA		24544.50	00			024547.40
	SIC,SEN0+.32		1311.40	80			024550.00
	B,SSW		1301.10	00			024550.40
F302AB	L%U□,PMAD2	-DIRECT INPUTS TO POSITIONS 0	25250.40	60			024551.00
	/%U□,PMAD1	-AND 1 ARE 1. THIS TEST	25247.41	E0			024551.40
	CT0110%BU,60□,PMAD1,68	-DIVIDES 1/4 BY 1/2. HENCE ON	25247.00	80	074042.15	70	024552.00
	SIC,SEN	-THE SECOND CYCLE THE	1310.00	80			024553.00
	BRGZ,SERS	-LOOP INPUTS TO POSITIONS 0	1304.35	42			024553.40
	B,\$+1.	-AND 1 ARE 1.	24555.10	00			024554.00
	B,F302AB		24551.10	00			024554.40
	SIC,SEN0+.32		1311.40	80			024555.00
	B,SSW		1301.10	00			024555.40
F302BA	L%U□,PMAD2	-FIRST LEVEL CARRY LOOK AHEAD	25250.40	60			024556.00
	+%U□,PMAD2	-TESTS BEGIN HERE	25250.40	20			024556.40
	CT0110%BU,60□,PMAD1,68	-TESTS THE 1 INPUT AND CIRCUIT	25250.40	20			024556.40
	SIC,SEN	-OF THE ZL CARD FOR THIS GROUP	25247.00	80	074042.15	70	024557.00
	BRGZ,SERS		1310.00	80			024560.00
	B,\$+1.		1304.35	42			024560.40
	B,F302BA		24562.10	00			024561.00
	SIC,SEN0+.32		24556.10	00			024561.40
	B,SSW		1311.40	80			024562.00
	B,F302BA		1301.10	00			024562.40
F302BB	L%U□,PMAD2	-TESTS THE 2 INPUT AND CIRCUIT	25250.40	60			024563.00
	+%U□,PMAD3	-OF THE ZL CARD. THE INPUTS	25251.40	20			024563.40
	CT0110%BU,60□,0.,68	-ARE C3 AND T2. SHOULD GIVE	0.00	80	074042.15	70	024564.00
	SIC,SEN	-ZERO FRACTION AND LC.	1310.00	80			024565.00
	BRGZ,SERS		1304.35	42			024565.40
	BZB,\$LC,SERS	-IS LC ON	13.26	80	001304.34	00	024566.00
	B,\$+1.		24570.10	00			024567.00
	B,F302BB		24563.10	00			024567.40
	SIC,SEN0+.32		1311.40	80			024570.00
	B,SSW		1301.10	00			024570.40

-THE REMAINING CIRCUITS ON THE ZL CARD FOR THIS GROUP CANNOT
 -BE TESTED SEPARATELY.
 -THE GROUP CARRY CIRCUITS ON THE ZM CARD ARE TESTED BEGINNING
 -HERE

F302CA	L%BU,0.		0.00	80	000000.20	50	024571.00
	C1111%BU,48,0.,20	-THIS TEST CHECKS THE AND	0.00	80	060012.36	70	024572.00
		-CIRCUIT OF THE ZM CARD WHOSE					
	C1111%BU,48,0.,68	-INPUTS FROM THE C,D,E AND	0.00	80	060042.36	70	024573.00
		-F INPUTS OF THAT CARD.					
	BB1,8.10,\$+1.	-THE CORRECT RESULT FOR THIS	10.12	80	024575.34	0E	024574.00
		-TEST ALSO DEPENDS ON THE 6 WAY					
	BB1,8.11,\$+1.	-OR CORCUIT WHICH PROVIDES THE	10.13	80	024576.34	0E	024575.00
		-SECTION CARRY INPUT TO					
	D-%U,PMAD1	-GROUP1.	25247.54	20			024576.00
	CT0110%BU,48,PMAD25+,12,20		25277.14	80	060012.15	70	024576.40
	SIC,SEN		1310.00	80			024577.40
	BRGZ,SERS		1304.35	42			024600.00
	CT0101%BU,48,0.,68		0.00	80	060042.13	70	024600.40
	SIC,SEN		1310.00	80			024601.40
	BRGZ,SERS		1304.35	42			024602.00
	B,\$+1.		24603.50	00			024602.40
	B,F302CA		24571.10	00			024603.00
	SIC,SEN0+.32		1311.40	80			024603.40
	B,SSW		1301.10	00			024604.00

-SINCE ONE CANNOT MAKE BOTH THE LOOP AND DIRECT INPUTS TO
 -POSITIONS 0 AND 1 ONE, THE REMAINING AND CIRCUITS OF THE
 -ZM CARD FOR THIS GROUP ARE NOT EXERCISED,
 -THE TRANSMIT CIRCUIT FOR THIS GROUP IS TREATED IN THE TESTS
 -OF THE SECOND LEVEL CARRY LOOK AHEAD CIRCUITS FOR SECTION 5
 -THOSE CIRCUITS USING THE CARRY FROM GROUP 5 OF SECTION 5
 -THESE TESTS BEGIN HERE

F302EA	DL%U□,PMAD4	-THIS TEST CHECKS THE 2 WAY AND	25252.44	60		024604.40
	C1111%BU,48□,0.,20	-CIRCUIT OF THE ZP CARD	0.00	80	060012.36	70 024605.00
	D-%U□,PMAD2	-WHOSE G INPUT IS FED	25250.54	20		024606.00
		-BY THE TRANSMIT LINE				
	CT0110%BU,48□,PMAD25+.12,20	-FROM GROUP 5 OF SECTION 5	25277.14	80	060012.15	70 024606.40
	SIC,SEN		1310.00	80		024607.40
	BRGZ,SERS		1304.35	42		024610.00
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70 024610.40
	SIC,SEN		1310.00	80		024611.40
	BRGZ,SERS		1304.35	42		024612.00
	B,s+1.		24613.50	00		024612.40
	B,F302EA		24604.50	00		024613.00
	SIC,SEN0+.32		1311.40	80		024613.40
	B,SSW		1301.10	00		024614.00
F302EB	DL%U□,PMAD7	-THIS TEST CHECKS THE 3 WAY AND	25255.44	60		024614.40
	C1111%BU,48□,0.,20	-CIRCUIT OF THE SAME	0.00	80	060012.36	70 024615.00
	D-%U□,PMAD6	-ZP CARD	25254.54	20		024616.00
	CT0110%BU,48□,PMAD25+.12,20		25277.14	80	060012.15	70 024616.40
	SIC,SEN		1310.00	80		024617.40
	BRGZ,SERS		1304.35	42		024620.00
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70 024620.40
	SIC,SEN		1310.00	80		024621.40
	BRGZ,SERS		1304.35	42		024622.00
	B,s+1.		24623.50	00		024622.40
	B,F302EB		24614.50	00		024623.00
	SIC,SEN0+.32		1311.40	80		024623.40
	B,SSW		1301.10	00		024624.00
F302EC	DL%U□,PMAD9	-THIS TEST CHECKS THE 4 WAY AND	25257.44	60		024624.40
	C1111%BU,48□,0.,20	-CIRCUIT OF THIS ZP CARD	0.00	80	060012.36	70 024625.00
	D-%U□,PMAD8		25256.54	20		024626.00
	CT0110%BU,48□,PMAD25+.12,20		25277.14	80	060012.15	70 024626.40
	SIC,SEN		1310.00	80		024627.40
	BRGZ,SERS		1304.35	42		024630.00
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70 024630.40
	SIC,SEN		1310.00	80		024631.40
	BRGZ,SERS		1304.35	42		024632.00
	B,s+1.		24633.50	00		024632.40
	B,F302EC		24624.50	00		024633.00
	SIC,SEN0+.32		1311.40	80		024633.40
	B,SSW		1301.10	00		024634.00
F302ED	DL%U□,PMAD11	-THIS TEST CHECKS THE 5 WAY	25261.44	60		024634.40
	C1111%BU,48□,0.,20	-AND CIRCUIT OF THIS ZP CARD	0.00	80	060012.36	70 024635.00
	D-%U□,PMAD10		25260.54	20		024636.00
	CT0110%BU,48□,PMAD25+.12,20		25277.14	80	060012.15	70 024636.40
	SIC,SEN		1310.00	80		024637.40
	BRGZ,SERS		1304.35	42		024640.00
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70 024640.40
	SIC,SEN		1310.00	80		024641.40
	BRGZ,SERS		1304.35	42		024642.00
	B,s+1.		24643.50	00		024642.40
	B,F302ED		24634.50	00		024643.00
	SIC,SEN0+.32		1311.40	80		024643.40
	B,SSW		1301.10	00		024644.00

-THE SECTION 5 TRANSMIT CIRCUIT WILL BE CHECKED WITH THE
 -THIRD LEVEL CARRY LOOKAHEAD CHECKS.
 -THESE CHECKS BEGIN HERE
 -TWO WAY AND CIRCUIT TESTS

F302FA	DL%U□,PMAD12		25262.44	60			024644.40
	C1111%BU,48□,0.,20		0.00	80	060012.36	70	024645.00
	D-%U□,PMAD13	-CHECKS THE 2 WAY AND CIRCUIT -WITH INPUTS FROM SECTION 5	25263.54	20			024646.00
	CT0101%BU,48□,0.,68	-TRANSMIT AND SECTION 4 CARRY	0.00	80	060042.13	70	024646.40
	SIC,SEN		1310.00	80			024647.40
	BRGZ,SERS		1304.35	42			024650.00
	CT0110%BU,48□,PMAD25+.12,20		25277.14	80	060012.15	70	024650.40
	SIC,SEN		1310.00	80			024651.40
	BRGZ,SERS		1304.35	42			024652.00
	B,\$+1.		24653.50	00			024652.40
	B,F302FA		24644.50	00			024653.00
	SIC,SEN0+.32		1311.40	80			024653.40
	B,SSW		1301.10	00			024654.00
F302FB	L%BU□,PMAD14,64		25264.00	80	000040.20	50	024654.40
	C0011%BU,48□,PMAD15+.12,20	-CHECKS THE 2 WAY AND CIRCUIT -WITH INPUTS FROM	25265.14	80	060012.06	70	024655.40
	D-%U□,PMAD16	-SECTION 1 TRANSMIT AND SECTION -5 CARRY	25266.54	20			024656.40
	CT0110%BU,48□,PMAD17+.12,20		25267.14	80	060012.15	70	024657.00
	SIC,SEN		1310.00	80			024660.00
	BRGZ,SERS		1304.35	42			024660.40
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70	024661.00
	SIC,SEN		1310.00	80			024662.00
	BRGZ,SERS		1304.35	42			024662.40
	B,\$+1.		24664.10	00			024663.00
	B,F302FB		24654.50	00			024663.40
	SIC,SEN0+.32		1311.40	80			024664.00
	B,SSW		1301.10	00			024664.40
F302FC	L%BU□,0.,64		0.00	80	000040.20	50	024665.00
	BB1,9.25,\$+1.	-CHECKS THE 2 WAY AND CIRCUIT -WITH INPUTS FROM	11.31	80	024667.34	0E	024666.00
	D+%U□,PMAD18	-SECTION 2 TRANSMIT AND SECTION -1 CARRY	25270.44	20			024667.00
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70	024667.40
	SIC,SEN		1310.00	80			024670.40
	BRGZ,SERS		1304.35	42			024671.00
	CT0110%BU,48□,PMAD32+.12,20		25306.14	80	060012.15	70	024671.40
	SIC,SEN		1310.00	80			024672.40
	BRGZ,SERS		1304.35	42			024673.00
	B,\$+1.		24674.50	00			024673.40
	B,F302FC		24665.10	00			024674.00
	SIC,SEN0+.32		1311.40	80			024674.40
	B,SSW		1301.10	00			024675.00
F302FD	L%BU,21□,PMAD15+.12,58	-CHECKS THE 2 WAY AND CIRCUIT -WITH INPUTS FROM	25265.14	80	025035.20	50	024675.40
	D+%U□,PMAD19	-SECTION 3 TRANSMIT AND SECTION -2 CARRY	25271.44	20			024676.40
	CT0101%BU,48□,0.,20		0.00	80	060012.13	70	024677.00
	SIC,SEN		1310.00	80			024700.00
	BRGZ,SERS		1304.35	42			024700.40
	CT0110%BU,48□,PMAD36+.12,68		25312.14	80	060042.15	70	024701.00
	SIC,SEN		1310.00	80			024702.00
	BRGZ,SERS		1304.35	42			024702.40
	B,\$+1.		24704.10	00			024703.00
	B,F302FD		24675.50	00			024703.40
	SIC,SEN0+.32		1311.40	80			024704.00
	B,SSW		1301.10	00			024704.40

F302FE	L%BU,PMAD20,64	-CHECKS THE 2 WAY AND CIRCUIT -WITH INPUTS FROM	25272.00	80	000040.20	50	024705.00
	+%U,PMAD21	-SECTION 4 TRANSMIT AND SECTION -3 CARRY	25273.40	20			024706.00
	CT0110%BU,PMAD22,64		25274.00	80	000040.15	70	024706.40
	SIC,SEN		1310.00	80			024707.40
	BRGZ,SERS		1304.35	42			024710.00
	B,s+1.		24711.50	00			024710.40
	B,F302FE		24705.10	00			024711.00
	SIC,SEN0+.32		1311.40	80			024711.40
	B,SSW		1301.10	00			024712.00
	-CHECKS OF THE THREE WAY AND CIRCUITS OF THIRD LEVEL CARRY						
	-LOOK AHEAD BEGIN HERE						
F302FF	DL%U,PMAD23	-CHECKS THE 3 WAY AND CIRCUIT -WITH INPUTS FROM	25275.44	60			024712.40
	C1111%BU,48,PMAD1,20	-SECTION 3 CARRY,SECTION4 -TRANSMIT AND SECTION 5 TRANSMIT	25247.00	80	060012.36	70	024713.00
	D-%U,PMAD24		25276.54	20			024714.00
	CT0110%BU,48,PMAD25+.12,20		25277.14	80	060012.15	70	024714.40
	SIC,SEN		1310.00	80			024715.40
	BRGZ,SERS		1304.35	42			024716.00
	CT0101%BU,48,PMAD1,68		25247.00	80	060042.12	70	024716.40
	SIC,SEN		1310.00	80			024717.40
	BRGZ,SERS		1304.35	42			024720.00
	B,s+1.		24721.50	00			024720.40
	B,F302FF		24712.50	00			024721.00
	SIC,SEN0+.32		1311.40	80			024721.40
	B,SSW		1301.10	00			024722.00
F302FG	DL%U,PMAD26	-CHECKS THE 3 WAY AND CIRCUIT -WITH INPUTS FROM	25300.44	60			024722.40
	C0011%BU,48,PMAD28+.12,20	-SECTION 4 CARRY, SECTION 1 -TRANSMIT, AND SECT. 5	25302.14	80	060012.06	70	024723.00
	D-%U,PMAD27	-TRANSMIT	25301.54	20			024724.00
	CT0110%BU,48,PMAD29+.12,20		25303.14	80	060012.15	70	024724.40
	SIC,SEN		1310.00	80			024725.40
	BRGZ,SERS		1304.35	42			024726.00
	CT0101%BU,48,PMAD1,68		25247.00	80	060042.13	70	024726.40
	SIC,SEN		1310.00	80			024727.40
	BRGZ,SERS		1304.35	42			024730.00
	B,s+1.		24731.50	00			024730.40
	B,F302FG		24722.50	00			024731.00
	SIC,SEN0+.32		1311.40	80			024731.40
	B,SSW		1301.10	00			024732.00
F302FH	DL%U,PMAD30	-CHECKS THE 3 WAY AND CIRCUIT -WITH INPUTS FROM	25304.44	60			024732.40
	C0011%BU,48,PMAD31+.12,20	-SECTION 5 CARRY,SECTION 1 -TRANSMIT AND SECTION 2 TRANSMIT	25305.14	80	060012.06	70	024733.00
	D-%U,PMAD1		25247.54	20			024734.00
	CT0110%BU,48,PMAD32+.12,20		25306.14	80	060012.15	70	024734.40
	SIC,SEN		1310.00	80			024735.40
	BRGZ,SERS		1304.35	42			024736.00
	CT0101%BU,48,PMAD1,68		25247.00	80	060042.13	70	024736.40
	SIC,SEN		1310.00	80			024737.40
	BRGZ,SERS		1304.35	42			024740.00
	B,s+1.		24741.50	00			024740.40
	B,F302FH		24732.50	00			024741.00
	SIC,SEN0+.32		1311.40	80			024741.40
	B,SSW		1301.10	00			024742.00
F302FI	DL%U,PMAD34	-CHECKS THE 3 WAY AND CIRCUIT -WITH INPUTS FROM	25310.44	60			024742.40
	C0011%BU,48,PMAD33+.12,20	-SECTION 1 CARRY,SECTION 2 -TRANSMIT AND SECTION 3 TRANSMIT	25307.14	80	060012.06	70	024743.00
	D+%U,PMAD35		25311.44	20			024744.00
	CT0110%BU,48,PMAD36+.12,68		25312.14	80	060042.15	70	024744.40
	SIC,SEN		1310.00	80			024745.40
	BRGZ,SERS		1304.35	42			024746.00

	CT0101%BU,48□,PMAD1,20		25247.00	80	060012.13	70	024746.40
	SIC,SEN		1310.00	80			024747.40
	BRGZ,SERS		1304.35	42			024750.00
	B,\$+1.		24751.50	00			024750.40
	B,F302FI		24742.50	00			024751.00
	SIC,SEN0+.32		1311.40	80			024751.40
	B,SSW		1301.10	00			024752.00
F302FJ	C0011%BU,48□,PMAD37+.12,20	-CHECKS THE 3 WAY AND CIRCUIT	25313.14	80	060012.06	70	024752.40
		-WITH INPUTS FROM					
	C0011%BU,60□,PMAD38,68	-SECTION 2 CARRY,SECTION 3	25314.00	80	074042.06	70	024753.40
		-TRANSMIT AND SECTION 4 TRANSMIT					
	D+%U□,PMAD39		25315.44	20			024754.40
	CT0110%BU,48□,PMAD40+.12,68		25316.14	80	060042.15	70	024755.00
	SIC,SEN		1310.00	80			024756.00
	BRGZ,SERS		1304.35	42			024756.40
	CT0101%BU,48□,PMAD1,20		25247.00	80	060012.13	70	024757.00
	SIC,SEN		1310.00	80			024760.00
	BRGZ,SERS		1304.35	42			024760.40
	B,\$+1.		24762.10	00			024761.00
	B,F302FJ		24752.50	00			024761.40
	SIC,SEN0+.32		1311.40	80			024762.00
	B,SSW		1301.10	00			024762.40
		-CHECKS OF THE FOUR WAY AND CIRCUITS IN THIRD LEVEL CARRY					
		-LOOK AHEAD BEGIN HERE					
F302FK	DL%U□,0.		0.44	60			024763.00
	BB1,9.5,\$+1.	-CHECKS THE 4 WAY AND CIRCUIT	11.05	80	024764.74	0E	024763.40
		-WITH INPUTS FROM					
	D-%U□,PMAD41	-SECTION 2 CARRY AND SECTIONS 3,	25317.54	20			024764.40
		-AND 5 TRANSMITS					
		-FRACTION					
	CT0110%BU,48□,PMAD42+.12,20		25320.14	80	060012.15	70	024765.00
	SIC,SEN		1310.00	80			024766.00
	BRGZ,SERS		1304.35	42			024766.40
	CT0110%BU,60□,0.,68		0.00	80	074042.15	70	024767.00
	SIC,SEN		1310.00	80			024770.00
	BRGZ,SERS		1304.35	42			024770.40
	B,\$+1.		24772.10	00			024771.00
	B,F302FK		24763.10	00			024771.40
	SIC,SEN0+.32		1311.40	80			024772.00
	B,SSW		1301.10	00			024772.40
F302FL	DL%U□,PMAD43		25321.44	60			024773.00
	C0011%BU,48□,PMAD44+.12,20		25322.14	80	060012.06	70	024773.40
	D-%U□,PMAD24	-CHECKS THE 4 WAY AND CIRCUIT	25276.54	20			024774.40
		-WITH INPUTS					
	CT0110%BU,48□,PMAD45+.12,20	-FROM SECTION3 CARRY AND	25323.14	80	060012.15	70	024775.00
		-SECTIONS 4,5 AND 1 TRANSMITS					
	SIC,SEN		1310.00	80			024776.00
	BRGZ,SERS		1304.35	42			024776.40
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70	024777.00
	SIC,SEN		1310.00	80			025000.00
	BRGZ,SERS		1304.35	42			025000.40
	B,\$+1.		25002.10	00			025001.00
	B,F302FL		24773.10	00			025001.40
	SIC,SEN0+.32		1311.40	80			025002.00
	B,SSW		1301.10	00			025002.40
F302FM	DL%U□,PMAD46		25324.44	60			025003.00
	C0011%BU,48□,PMAD47+.12,20	-CHECKS THE 4 WAY AND CIRCUIT	25325.14	80	060012.06	70	025003.40
		-WITH INPUTS FROM					
	D-%U□,PMAD27	-SECTION4 CARRY AND SECTIONS	25301.54	20			025004.40
		-5,1 AND 2 TRANSMITS					
	CT0110%BU,48□,PMAD32+.12,20		25306.14	80	060012.15	70	025005.00
	SIC,SEN		1310.00	80			025006.00
	BRGZ,SERS		1304.35	42			025006.40
	CT0101%BU,48□,0.,68		0.00	80	060042.13	70	025007.00
	SIC,SEN		1310.00	80			025010.00
	BRGZ,SERS		1304.35	42			025010.40

	B, \$+1.		25012.10	00		025011.00
	B, F302FM		25003.10	00		025011.40
	SIC, SEN0+.32		1311.40	80		025012.00
	B, SSW		1301.10	00		025012.40
F302FN	DL%UH, PMAD48		25326.44	60		025013.00
	C0000%BU, 48H, PMAD1, 20		25247.00	80	060012.00 70	025013.40
	D-%UH, PMAD1	-CHECKS THE 4 WAY AND CIRCUIT -WITH INPUTS FROM	25247.54	20		025014.40
	CT0110%BU, 48H, PMAD36+.12, 68	-SECTION 5 CARRY AND SECTIONS -1, 2, AND 3 TRANSMITS	25312.14	80	060042.15 70	025015.00
	SIC, SEN		1310.00	80		025016.00
	BRGZ, SERS		1304.35	42		025016.40
	CT0101%BU, 48H, PMAD1, 20		25247.00	80	060012.13 70	025017.00
	SIC, SEN		1310.00	80		025020.00
	BRGZ, SERS		1304.35	42		025020.40
	B, \$+1.		25022.10	00		025021.00
	B, F302FN		25013.10	00		025021.40
	SIC, SEN0+.32		1311.40	80		025022.00
	B, SSW		1301.10	00		025022.40
F302FO	DL%UH, PMAD50		25330.44	60		025023.00
	C0011%BU, 48H, PMAD49+.12, 20	-CHECKS THE 4 WAY AND CIRCUIT -WITH INPUTS FROM	25327.14	80	060012.06 70	025023.40
	D+%UH, PMAD51	-SECTION 1 CARRY AND SECTIONS -2, 3, AND 4 TRANSMITS	25331.44	20		025024.40
	CT0101%BU, 48H, PMAD1, 20		25247.00	80	060012.13 70	025025.00
	SIC, SEN		1310.00	80		025026.00
	BRGZ, SERS		1304.35	42		025026.40
	CT0110%BU, 48H, PMAD22+.12, 68		25274.14	80	060042.15 70	025027.00
	SIC, SEN		1310.00	80		025030.00
	BRGZ, SERS		1304.35	42		025030.40
	B, \$+1.		25032.10	00		025031.00
	B, F302FO		25023.10	00		025031.40
	SIC, SEN0+.32		1311.40	80		025032.00
	B, SSW		1301.10	00		025032.40
	-CHECKS OF THE 5 WAY AND CIRCUITS OF THIRD LEVEL CARRY LOOK -AHEAD BEGIN HERE.					
F302FP	DL%UH, 0.		0.44	60		025033.00
	BB1, 9.25, \$+1.		11.31	80	025034.74 0E	025033.40
	D-%UH, PMAD52	-CHECKS THE 5 WAY AND CIRCUIT -WITH INPUTS FROM	25332.54	20		025034.40
	CT0110%BU, 48H, PMAD25+.12, 20	-2, 3, 4 AND 5 TRANSMITS -2, 3, 4 AND 5 TRANSMITS	25277.14	80	060012.15 70	025035.00
	SIC, SEN		1310.00	80		025036.00
	BRGZ, SERS		1304.35	42		025036.40
	CT0101%BU, 48H, 0., 68		0.00	80	060042.13 70	025037.00
	SIC, SEN		1310.00	80		025040.00
	BRGZ, SERS		1304.35	42		025040.40
	B, \$+1.		25042.10	00		025041.00
	B, F302FP		25033.10	00		025041.40
	SIC, SEN0+.32		1311.40	80		025042.00
	B, SSW		1301.10	00		025042.40
F302FQ	DL%UH, 0		0.44	60		025043.00
	BB1, 9.5, \$+1.		11.05	80	025044.74 0E	025043.40
	D-%UH, PMAD53	-CHECKS THE 5 WAY AND CIRCUIT -WITH INPUTS FROM	25333.54	20		025044.40
	CT0110%BU, 48H, PMAD29+.12, 20	-SECTION 2 CARRY AND SECTIONS -1, 3, 4 AND 5 TRANSMITS	25303.14	80	060012.15 70	025045.00
	SIC, SEN		1310.00	80		025046.00
	BRGZ, SERS		1304.35	42		025046.40
	CT0101%BU, 48H, PMAD1, 68		25247.00	80	060042.13 70	025047.00
	SIC, SEN		1310.00	80		025050.00
	BRGZ, SERS		1304.35	42		025050.40
	B, \$+1.		25052.10	00		025051.00
	B, F302FQ		25043.10	00		025051.40
	SIC, SEN0+.32		1311.40	80		025052.00
	B, SSW		1301.10	00		025052.40

F302FR	DL%UH,PMAD54		25334.44 60	025053.00
	C0011%BU,48H,PMAD55+.12,20	-CHECKS THE 5 WAY AND CIRCUIT	25335.14 80 060012.06 70	025053.40
	D-%UH,PMAD21	-WITH INPUTS FROM -SECTION3 CARRY AND SECTIONS -1,2,4 AND 5 TRANSMITS	25273.54 20	025054.40
	CT0110%BU,48H,PMAD32+.12,20		25306.14 80 060012.15 70	025055.00
	SIC,SEN		1310.00 80	025056.00
	BRGZ,SERS		1304.35 42	025056.40
	CT0101%BU,48H,PMAD1,68		25247.00 80 060042.13 70	025057.00
	SIC,SEN		1310.00 80	025060.00
	BRGZ,SERS		1304.35 42	025060.40
	B,\$+1.		25062.10 00	025061.00
	B,F302FR		25053.10 00	025061.40
	SIC,SEN0+.32		1311.40 80	025062.00
	B,SSW		1301.10 00	025062.40
F302FS	DL%UH,PMAD56		25336.44 60	025063.00
	C0000%BU,48H,0.,20	-CHECKS THE 5 WAY AND CIRCUIT -WITH INPUTS FROM	0.00 80 060012.00 70	025063.40
	D-%UH,PMAD27	-SECTION4 CARRY AND SECTIONS -1,2,3 AND 5 TRANSMITS	25301.54 20	025064.40
	CT0101%BU,48H,PMAD1,20		25247.00 80 060012.13 70	025065.00
	SIC,SEN		1310.00 80	025066.00
	BRGZ,SERS		1304.35 42	025066.40
	CT0110%BU,48H,PMAD36+.12,68		25312.14 80 060042.15 70	025067.00
	SIC,SEN		1310.00 80	025070.00
	BRGZ,SERS		1304.35 42	025070.40
	B,\$+1.		25072.10 00	025071.00
	B,F302FS		25063.10 00	025071.40
	SIC,SEN0+.32		1311.40 80	025072.00
	B,SSW		1301.10 00	025072.40
F302FT	DL%UH,PMAD57	-CHECKS THE 5 WAY AND CIRCUIT -WITH INPUTS FROM	25337.44 60	025073.00
	D-%UH,PMAD1	-SECTION5 CARRY AND SECTIONS -1,2,3 AND 4 TRANSMITS	25247.54 20	025073.40
	CT0101%BU,48H,PMAD1,20		25247.00 80 060012.13 70	025074.00
	SIC,SEN		1310.00 80	025075.00
	BRGZ,SERS		1304.35 42	025075.40
	CT0110%BU,48H,PMAD22+.12,68		25274.14 80 060042.15 70	025076.00
	SIC,SEN		1310.00 80	025077.00
	BRGZ,SERS		1304.35 42	025077.40
	B,\$+1.		25101.10 00	025100.00
	B,F302FT		25073.10 00	025100.40
	SIC,SEN0+.32		1311.40 80	025101.00
	B,SSW		1301.10 00	025101.40
		-GROUP M TESTS BEGIN HERE, -TESTS OF SUM GENERATING CIRCUITS		
F302ZA	L%UH,PMAD60		25340.40 60	025102.00
	/%UH,PMAD61	-ALL INPUTS TO POSITIONS 99 -TO 102 ARE ZERO.	25341.41 E0	025102.40
	CT0110%BU,60H,PMAD62,68	-DIVIDES 63 BY 9. IF THE -RESULT IS	25342.00 80 074042.15 70	025103.00
	SIC,SEN		1310.00 80	025104.00
	BRGZ,SERS	-LESS THAN 7, ONE OF THESE -POSITIONS MAY	1304.35 42	025104.40
	B,\$+1.		25106.10 00	025105.00
	B,F302ZA	-HAVE PRODUCED A NON ZERO OUTPUT	25102.10 00	025105.40
	SIC,SEN0+.32		1311.40 80	025106.00
	B,SSW		1301.10 00	025106.40
F302ZB	L%UH,PMAD64	-THE A INPUTS TO POSITIONS 99 -AND 101 AND THE B INPUTS	25344.40 60	025107.00
	/%UH,PMAD63	-TO POSITIONS 100 AND 102 ARE 1. -ONLY 2 REDUCTION	25343.41 E0	025107.40
	CT0110%BU,60H,PMAD65,68	-CYCLES SHOULD OCCUR. 1 TIMES -DIVISOR SUBTRACTED ON THE	25345.00 80 074042.15 70	025110.00
	SIC,SEN		1310.00 80	025111.00
	BRGZ,SERS	-FIRST CYCLE AND 3/2 DIVISOR	1304.35 42	025111.40

B,S+1.		-ADDED ON THE SECOND. THE	25113.10 00	025112.00
B,F302ZB		-PART REM THEN IS 00111...111	25107.10 00	025112.40
SIC,SEN0+.32			1311.40 80	025113.00
B,SSW			1301.10 00	025113.40
F302ZC	L&UE,PMAD66		25346.40 60	025114.00
	/BU,PMAD67	-THE A INPUT TO POSITION 100	25347.41 E0	025114.40
		-AND B INPUTS TO 99AND 101		
CT0110%BU,60,PMDA65,68		-ARE 1. ONLY 2 REDUCTION CYCLES OCC	25364.00 80	074042.15 70
		-SHOULD OCCUR.		025115.00
SIC,SEN			1310.00 80	025116.00
BRGZ,SERS		-1 TIMES DIVISOR SUBTRACTED	1304.35 42	025116.40
		-ON THE FIRST 3/2		
B,S+1.			25120.10 00	025117.00
B,F302ZC		-DIVISOR ADDED ON THE SECOND CYCL%	25114.10 00	025117.40
SIC,SEN0+.32			1311.40 80	025120.00
B,SSW			1301.10 00	025120.40

-TESTS OF THE ZL CARD CIRCUITS %FIRST LEVEL CARRY LOOK AHEAD
 -START HERE. INCLUDED IN THESE OF COURSE ARE CHECKS OF THE
 -TWO AND CIRCUITS AND THE CONVERT BLOCK FEEDING THE Z OUTPUT
 -OF EACH ZK CARD IN THIS GROUP. SINCE THERE IS NO CARRY INTO
 -GROUP M AND NO CARRY POSSIBLE FROM POSITION 102, ONLY THE
 -OR CIRCUIT AND THE AND CIRCUIT FEEDING THE U OUTPUT CAN
 -BE MADE TO PRODUCE NON ZERO OUTPUTS FROM THIS
 -ZL CARD

F302ZD	L%U,PMAD68	-THIS TEST CHECKS THE CIRCUITS -FEEDING THE U OUTPUT OF THE ZL	25350.40 60	025121.00
	/%U,PMAD69	-CARD OF GROUPM. THERE ARE 3 -REDUCTION CYCLES. ONLY THE	25351.41 E0	025121.40
	CT0110%BU,60,PMAD70,68	-SECOND CYCLE USES GROUP M, -THE OTHER TWO USE 1	25352.00 80 074042.15 70	025122.00
	SIC,SEN	-TIMES THE DIVISOR	1310.00 80	025123.00
	BRGZ,SERS		1304.35 42	025123.40
F302ZE	L%U,PMAD71	-THIS TEST PRODUCES A CARRY -INTO POSITION 99 FROM -POSITION 100.	25353.40 60	025124.00
	/%U,PMAD72	-IT ALSO CHECKS THE 2 WAY AND -CIRCUIT FED BY THE G AND H	25354.41 E0	025124.40
	CT0110%BU,60,PMAD73,68	-INPUTS OF THE ZM CARD FOR THIS -GROUP	25355.00 80 074042.15 70	025125.00
	SIC,SEN		1310.00 80	025126.00
	BRGZ,SERS		1304.35 42	025126.40
F302ZF	L%U,PMAD74	-THIS TEST CHECKS THE 3 WAY -AND CIRCUIT FED BY INPUTS	25356.40 60	025127.00
	/%U,PMAD75	-C,U, AND H OF THE ZM CARD, -TOGETHER WITH THE 2 WAY AND	25357.41 E0	025127.40
	CT0110%BU,60,PMAD76,68	-CIRCUIT FED BY INPUTS G AND H -OF THE ZM CARD. SINCE THE	25360.00 80 074042.15 70	025130.00
	SIC,SEN		1310.00 80	025131.00
	BRGZ,SERS	-2 WAY AND WAS CHECKED IN THE -PRECEDING TEST, IF THIS TEST	1304.35 42	025131.40
		- FAILS AND THE PRECEEDING		
		- DOES NOT, THE TWO WAY AND SHOULD		
		- BE OK		
F302ZG	L%U,PMAD77		25361.40 60	025132.00
	/%U,PMAD78	-THIS TEST CHECKS THE 1 WAY AND -CIRCUIT FED BY INPUT X	25362.41 E0	025132.40
	CT0110%BU,60,PMAD76,68	-OF THE ZM CARD	25360.00 80 074042.15 70	025133.00
	SIC,SEN		1310.00 80	025134.00
	BRGZ,SERS		1304.35 42	025134.40
	BD,F302ZZ		25365.04 00	025135.00
	CNOP		0.30 00	025135.40

DPMA0	DD%U□,0	-TO ALIGN LOC. CTR. ON -WORD BDY.	14000.00 00 000000.00 00	025136.00
DPMA1	%8□DD%BU□,00001252525252525240	-ZERO EXP. AND 1010 ETC.	00001252525252525240	025137.00
DPMA2	%8□DD%BU□,00000525252525252520	-ZERO EXP. AND 0101 ETC.	00000525252525252520	025140.00
DPMA3	%8□DD%BU□,00303252525252525240	-FRACTION --48 EXP. AND 1010 ETC.	00303252525252525240	025141.00
DPMA4	%8□DD%BU□,00302525252525252520	-FRACTION --48 EXP. AND 0101 ETC.	00302525252525252520	025142.00
DPMA5	%8□DD%BU□,0000035673567356735600	-FRACTION -ZERO EXP. AND	0000035673567356735600	025143.00
DPMA6	%8□DD%BU□,0000004210421042104200	-0011101110111 ETC. FRACT. -ZERO EXP. AND	0000004210421042104200	025144.00
DPMA7	%8□DD%BU□,48□,3567356735673567	-0000100010001 ETC. FRACT.	3567356735673567	025145.00
DPMA8	DD%U□,1	-TO REALIGN LOC. CTR. ON -WORD BDY.	14000.00 00 000000.00 10	025146.00
DPMA9	%8□DD%BU□,0030304210421042104200	--48 EXP.	0030304210421042104200	025147.00
DPMA10	%8□DD%BU□,0000042104210421042000		0000042104210421042000	025150.00
DPMA11	%8□DD%BU□,0000031463146314631460		0000031463146314631460	025151.00
DPMA12	%8□DD%BU□,0000010421042104210420		0000010421042104210420	025152.00
DPMA13	%8□DD%BU□,0000042104210421042100	+%U□ SUM OF DPMA11 AND -DPMA12	0000042104210421042100	025153.00
DPMA14	%8□DD%BU□,0030210421042104210420	-SAME AS DPMA12 EXCEPT --48 EXP.	0030210421042104210420	025154.00
DPMA15	%8□DD%BU□,0000021042104210421040	-0 EXP. AND -00100010001 ETC. FRACT.	0000021042104210421040	025155.00
DPMA16	%8□DD%BU□,0030221042104210421040	-SAME AS DPMA15 EXCEPT --48 EXP.	0030221042104210421040	025156.00
DPMA17	%8□DD%BU□,0030242104210421042100	-SAME AS DPMA 13 EXCEPT --48 EXP.	0030242104210421042100	025157.00
DPMA18	%8□DD%BU□,0000063146314631463140	-0 EXP. AND -01100110011 ETC. FRACT.	0000063146314631463140	025160.00
DPMA19	%8□DD%BU□,0000073567356735673560	-0 EXP. AND -011101110111 ETC. FRACT.	0000073567356735673560	025161.00
DPMA20	%8□DD%BU□,0000074170360741703600		0000074170360741703600	025162.00
DPMA21	%8□DD%BU□,0000004010020040100200		0000004010020040100200	025163.00
DPMA22	%8□DD%BU□,0000100200401002004000	+%U□ SUM + DPMA20 AND -DPMA21	0000100200401002004000	025164.00
DPMA23	%8□DD%BU□,0030204010020040100200	-SAME AS DPMA21 EXCEPT --48 EXP.	0030204010020040100200	025165.00
DPMA24	%8□DD%BU□,0000000200401002004000		0000000200401002004000	025166.00
DPMA25	%8□DD%BU□,000000040100200401000000		000000040100200401000000	025167.00
DPMA26	%8□DD%BU□,0030200200401002004000	--48 EXPONENT	0030200200401002004000	025170.00
DPMA27	%8□DD%BU□,0000002004010020040100		0000002004010020040100	025171.00
DPMA28	%8□DD%BU□,0000003707617437076000		0000003707617437076000	025172.00
DPMA29	%8□DD%BU□,0030200100200401002000		0030200100200401002000	025173.00
DPMA30	%8□DD%BU□,0000000100200401002000		0000000100200401002000	025174.00
DPMA31	%8□DD%BU□,0001743707617437076000		0001743707617437076000	025175.00
DPMA32	%8□DD%BU□,0030240100200401002000		0030240100200401002000	025176.00
DPMA33	%8□DD%BU□,0002004010020040100000		0002004010020040100000	025177.00
DPMA34	%8□DD%BU□,0000042104210421042100		0000042104210421042100	025200.00
DPMA35	%8□DD%BU□,0030242104210421042100	-SAME AS DPMA34 EXCEPT --48 EXP.	0030242104210421042100	025201.00
DPMA36	%8□DD%BU□,0000006314631463146300		0000006314631463146300	025202.00
DPMA37	%8□DD%BU□,0000002104210421042100		0000002104210421042100	025203.00
DPMA38	%8□DD%BU□,0000010421042104210400	-SUM OF DPMA36 AND -DPMA37	0000010421042104210400	025204.00
DPMA39	%8□DD%BU□,0000146314631463146300		0000146314631463146300	025205.00
DPMA40	%8□DD%BU□,0030242104210421042100		0030242104210421042100	025206.00
DPMA41	%8□DD%BU□,0000210421042104210400	-SUM OF DPMA39 AND -DPMA40	0000210421042104210400	025207.00
DPMA42	%8□DD%BU□,0000016735673567356700		0000016735673567356700	025210.00

DPMA43	%8HDD%BUH,0000002104210421042100	0000002104210421042100	025211.00
DPMA44	%8HDD%BUH,0000021042104210421000	0000021042104210421000	025212.00
DPMA45	%8HDD%BUH,0000356735673567356700	0000356735673567356700	025213.00
DPMA46	%8HDD%BUH,0000036074170360741700	0000036074170360741700	025214.00
DPMA47	%8HDD%BUH,0000002004010020040100	0000002004010020040100	025215.00
DPMA48	%8HDD%BUH,0000040100200401002000	0000040100200401002000	025216.00
	-SUM OF DPMA46 AND		
	-DPMA47		
DPMA49	%8HDD%BUH,0030202004010020040100	0030202004010020040100	025217.00
	-SAME AS DPMA47 EXCEPT		
	-FOR -48 EXP.		
DPMA50	%8HDD%BUH,0000000100200401002000	0000000100200401002000	025220.00
DPMA51	%8HDD%BUH,0030240100200401002000	0030240100200401002000	025221.00
DPMA52	%8HDD%BUH,0000003774377437740000	0000003774377437740000	025222.00
DPMA53	%8HDD%BUH,0000000040004000400000	0000000040004000400000	025223.00
DPMA54	%8HDD%BUH,0000004000400040000000	0000004000400040000000	025224.00
	+%UH SUM OF DPMA52 AND		
	-DPMA53		
DPMA55	%8HDD%BUH,0037743774377437740000	0037743774377437740000	025225.00
DPMA56	%8HDD%BUH,0030240004000400040000	0030240004000400040000	025226.00
DPMA57	%8HDD%BUH,0040004000400040000000	0040004000400040000000	025227.00
	-D+%UH SUM OF DPMA55		
	-AND DPMA56		
DPMA58	%8HDD%BUH,0000001703607417036000	0000001703607417036000	025230.00
DPMA59	%8HDD%BUH,0000002004010020040000	0000002004010020040000	025231.00
DPMA60	%8HDD%BUH,0000076174370761743700	0000076174370761743700	025232.00
DPMA61	%8HDD%BUH,0000077707770777077700	0000077707770777077700	025233.00
DPMA62	%8HDD%BUH,0000000100010001000100	0000000100010001000100	025234.00
DPMA63	%8HDD%BUH,0000100010001000100000	0000100010001000100000	025235.00
DPMA64	%8HDD%BUH,0030200100010001000100	0030200100010001000100	025236.00
	-SAME AS DPMA62 EXCEPT		
	-FOR -48 EXP.		
DPMA65	%8HDD%BUH,0000000000017761776000	0000000000017761776000	025237.00
DPMA66	%8HDD%BUH,0000000000000020002000	0000000000000020002000	025240.00
DPMA67	%8HDD%BUH,0000000000020002000000	0000000000020002000000	025241.00
DPMA68	%8HDD%BUH, 0 001 776 177 617 761 776 000	0001776177617761776000	025242.00
DPMA69	%8HDD%BUH,0030202000200020002000	0030202000200020002000	025243.00
DPMA70	%8HDD%BUH,0000200020002000200000	0000200020002000200000	025244.00
DPMAX	%8HDD%BUH, 0 000 100 200 401 002 000 000	0000100200401002000000	025245.00
DPMAY	%8HDD%BUH, 0 030 202 004 010 020 040 000	0030202004010020040000	025246.00
PMAD1	%8HDD%BUH,0000100000000000000000	0000100000000000000000	025247.00
PMAD2	%8HDD%BUH,0000040000000000000000	0000040000000000000000	025250.00
PMAD3	%8HDD%BUH,0000140000000000000000	0000140000000000000000	025251.00
PMAD4	%8HDD%BUH,000067777777777777760	000067777777777777760	025252.00
PMAD5	%8HDD%BUH,000007777777777777760	000007777777777777760	025253.00
PMAD6	%8HDD%BUH,0000002000000000000000	0000002000000000000000	025254.00
PMAD7	%8HDD%BUH,000060377777777777760	000060377777777777760	025255.00
PMAD8	%8HDD%BUH,0000000100000000000000	0000000100000000000000	025256.00
PMAD9	%8HDD%BUH,000060017777777777760	000060017777777777760	025257.00
PMAD10	%8HDD%BUH,0000000004000000000000	0000000004000000000000	025260.00
PMAD11	%8HDD%BUH,000060000777777777760	000060000777777777760	025261.00
PMAD12	%8HDD%BUH,000060000037777777760	000060000037777777760	025262.00
PMAD13	%8HDD%BUH,0000000000200000000000	0000000000200000000000	025263.00
PMAD14	%8HDD%BUH,000077777777777777760	000077777777777777760	025264.00
PMAD15	%8HDD%BUH,0000177777777600000000	0000177777777600000000	025265.00
PMAD16	%8HDD%BUH,0000100000000000000000	0000100000000000000000	025266.00
PMAD17	%8HDD%BUH,0000000000000100000000	0000000000000100000000	025267.00
PMAD18	%8HDD%BUH,0030200177777760000000	0030200177777760000000	025270.00
PMAD19	%8HDD%BUH,0030200100000000000000	0030200100000000000000	025271.00
PMAD20	%8HDD%BUH,0000000000377777740000	0000000000377777740000	025272.00
PMAD21	%8HDD%BUH,000000000000000040000	000000000000000040000	025273.00
PMAD22	%8HDD%BUH,0000000000400000000000	0000000000400000000000	025274.00
PMAD23	%8HDD%BUH,000060000000000077760	000060000000000077760	025275.00
PMAD24	%8HDD%BUH,000000000000000040000	000000000000000040000	025276.00
PMAD25	%8HDD%BUH,000000000000000000020	000000000000000000020	025277.00
PMAD26	%8HDD%BUH, 0 000 600 000 377 777 777 760	000060000037777777760	025300.00
PMAD27	%8HDD%BUH,0000000000200000000000	0000000000200000000000	025301.00
PMAD28	%8HDD%BUH,0000177777777000000000	0000177777777000000000	025302.00
PMAD29	%8HDD%BUH,0000000000000400000000	0000000000000400000000	025303.00
PMAD30	%8HDD%BUH,000077777777777777760	000077777777777777760	025304.00
PMAD31	%8HDD%BUH,0000177400000000000000	0000177400000000000000	025305.00

PMAD32	%8HDD%BUH,0000000200000000000000	00000020000000000000	025306.00
PMAD33	%8HDD%BUH,00001777777760000000	00001777777776000000	025307.00
PMAD34	%8HDD%BUH,000000000000000077760	000000000000000077760	025310.00
PMAD35	%8HDD%BUH,00302000000002000000	00302000000002000000	025311.00
PMAD36	%8HDD%BUH,00000000000000100000	00000000000000100000	025312.00
PMAD37	%8HDD%BUH,00001777000000000000	00001777000000000000	025313.00
PMAD38	%8HDD%BUH,000000000377777777760	000000000377777777760	025314.00
PMAD39	%8HDD%BUH,00302001000000000000	00302001000000000000	025315.00
PMAD40	%8HDD%BUH,00000000040000000000	00000000040000000000	025316.00
PMAD41	%8HDD%BUH,003020007777777777760	003020007777777777760	025317.00
PMAD42	%8HDD%BUH,0000000000000000020	0000000000000000020	025320.00
PMAD43	%8HDD%BUH,0 000 600 000 000 000 077 760	000060000000000077760	025321.00
PMAD44	%8HDD%BUH,0000177777777000000000	0000177777777000000000	025322.00
PMAD45	%8HDD%BUH,00000000000040000000	00000000000040000000	025323.00
PMAD46	%8HDD%BUH,0000600000377777777760	0000600000377777777760	025324.00
PMAD47	%8HDD%BUH,0000177400000000000000	0000177400000000000000	025325.00
PMAD48	%8HDD%BUH,00007777777777600000	00007777777777600000	025326.00
PMAD49	%8HDD%BUH,0000177777777600000000	0000177777777600000000	025327.00
PMAD50	%8HDD%BUH,0000000000377777777760	0000000000377777777760	025330.00
PMAD51	%8HDD%BUH,00302000000002000000	00302000000002000000	025331.00
PMAD52	%8HDD%BUH,003020000000017777760	003020000000017777760	025332.00
PMAD53	%8HDD%BUH,0030200077777740000000	0030200077777740000000	025333.00
PMAD54	%8HDD%BUH,000060000000000077760	000060000000000077760	025334.00
PMAD55	%8HDD%BUH,0000177400000000000000	0000177400000000000000	025335.00
PMAD56	%8HDD%BUH,0000600000377777600000	0000600000377777600000	025336.00
PMAD57	%8HDD%BUH,0000777770000000000000	0000777770000000000000	025337.00
PMAD60	%8HDD%BUH,0003176000000000000000	0003176000000000000000	025340.00
PMAD61	%8HDD%BUH,0002110000000000000000	0002110000000000000000	025341.00
PMAD62	%8HDD%BUH,0001560000000000000000	0001560000000000000000	025342.00
PMAD63	%8HDD%BUH,003010000000000000240	003010000000000000240	025343.00
PMAD64	%8HDD%BUH,003002000000000000040	003002000000000000040	025344.00
PMAD65	%8HDD%BUH,000003777777777777760	000003777777777777760	025345.00
PMAD66	%8HDD%BUH,0 030 020 000 000 000 000 120	003002000000000000120	025346.00
PMAD67	%8HDD%BUH,0 030 100 000 000 000 000 120	003010000000000000120	025347.00
PMAD68	%8HDD%BUH,0 030 060 000 000 000 000 000	003006000000000000000	025350.00
PMAD69	%8HDD%BUH,003010000000000000060	003010000000000000060	025351.00
PMAD70	%8HDD%BUH,0 000 137 777 777 777 777 660	0000137777777777777660	025352.00
PMAD71	%8HDD%BUH,003006000000000000100	003006000000000000100	025353.00
PMAD72	%8HDD%BUH,003010000000000000140	003010000000000000140	025354.00
PMAD73	%8HDD%BUH,0 000 137 777 777 777 777 760	0000137777777777777760	025355.00
PMAD74	%8HDD%BUH,003006000000000000120	003006000000000000120	025356.00
PMAD75	%8HDD%BUH,003010000000000000160	003010000000000000160	025357.00
PMAD76	%8HDD%BUH,0 000 137 777 777 777 777 760	0000137777777777777760	025360.00
PMAD77	%8HDD%BUH,003006000000000000040	003006000000000000040	025361.00
PMAD78	%8HDD%BUH,003010000000000000060	003010000000000000060	025362.00
PMAD79	%8HDD%BUH,0 025 200 020 002 000 200 020	002520002000200020020	025363.00
PMDA65	%8HDD%BUH,0 000 040 000 000 000 000 160	000004000000000000160	025364.00
F302ZZ	NOP	0.30 00	025365.00
	CNOP	0.30 00	025365.40
	B,S+1.	25367.10 00	025366.00
	B,F302ZD	25121.10 00	025366.40
	SIC,SENO+.32	1311.40 80	025367.00
	B,SSW	1301.10 00	025367.40

- F303 MULTIPLICAND GATING

- THE FORTY-EIGHT TESTS FROM MP301 THROUGH MP308 SEND A
- ONE BIT, ONE POSITION AT A TIME, THROUGH EACH POSITION
- OF THE MULTIPLICAND GATE ASSOCIATED WITH THE LOW ORDER
- OCTAL DIGIT OF EACH 12 BIT MULTIPLIER GROUP.
- MP309 THROUGH MP316 DO THE SAME FOR THE SECOND OCTAL DIGIT.
- MP317 THROUGH MP324 DO THE SAME FOR THE THIRD OCTAL DIGIT
- MP325 THROUGH MP332 DO THE SAME FOR THE FOURTH OCTAL DIGIT

MLGAT1	BD,\$+.32		25370.44	00		025370.00
	LX,\$X13,MLGAT		22002.32	10		025370.40
	SX,\$X13,DPET13		1437.33	10		025371.00
	SIC,RET1		1306.40	80		025371.40
		B,IDF1	1443.10	00		025372.00
MP301	DL%UH,DMY61		30032.44	60		025372.40
	D*%UH,DMY12	-1 IN POS 12	27751.45	A0		025373.00
	CT0110%BU,48H,DMY12+.12,20		27751.14	80	060012.15 70	025373.40
	SIC,SEN		1310.00	80		025374.40
		BRGZ,SERS	1304.35	42		025375.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025375.40
	SIC,SEN		1310.00	80		025376.40
		BRGZ,SERS	1304.35	42		025377.00
	DL%UH,DMY61		30032.44	60		025377.40
	D*%UH,DMY13	-1 IN POS 13	27752.45	A0		025400.00
	CT0110%BU,48H,DMY13+.12,20		27752.14	80	060012.15 70	025400.40
	SIC,SEN		1310.00	80		025401.40
		BRGZ,SERS	1304.35	42		025402.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025402.40
	SIC,SEN		1310.00	80		025403.40
		BRGZ,SERS	1304.35	42		025404.00
	DL%UH,DMY61		30032.44	60		025404.40
	D*%UH,DMY14	-1 IN POS 14	27753.45	A0		025405.00
	CT0110%BU,48H,DMY14+.12,20		27753.14	80	060012.15 70	025405.40
	SIC,SEN		1310.00	80		025406.40
		BRGZ,SERS	1304.35	42		025407.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025407.40
	SIC,SEN		1310.00	80		025410.40
		BRGZ,SERS	1304.35	42		025411.00
	DL%UH,DMY61		30032.44	60		025411.40
	D*%UH,DMY15	-1 IN POS 15	27754.45	A0		025412.00
	CT0110%BU,48H,DMY15+.12,20		27754.14	80	060012.15 70	025412.40
	SIC,SEN		1310.00	80		025413.40
		BRGZ,SERS	1304.35	42		025414.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025414.40
	SIC,SEN		1310.00	80		025415.40
		BRGZ,SERS	1304.35	42		025416.00
	DL%UH,DMY61		30032.44	60		025416.40
	D*%UH,DMY16	-1 IN POS 16	27755.45	A0		025417.00
	CT0110%BU,48H,DMY16+.12,20		27755.14	80	060012.15 70	025417.40
	SIC,SEN		1310.00	80		025420.40
		BRGZ,SERS	1304.35	42		025421.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025421.40
	SIC,SEN		1310.00	80		025422.40
		BRGZ,SERS	1304.35	42		025423.00
	DL%UH,DMY61		30032.44	60		025423.40
	D*%UH,DMY17	-1 IN POS 17	27756.45	A0		025424.00
	CT0110%BU,48H,DMY17+.12,20		27756.14	80	060012.15 70	025424.40
	SIC,SEN		1310.00	80		025425.40
		BRGZ,SERS	1304.35	42		025426.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025426.40
	SIC,SEN		1310.00	80		025427.40

	BRGZ,SERS	1304.35	42	025430.00
DL%U□,DMY61		30032.44	60	025430.40
D*%U□,DMY18	-1 IN POS 18	27757.45	A0	025431.00
CT0110%BU,48□,DMY18+.12,20		27757.14	80 060012.15 70	025431.40
SIC,SEN		1310.00	80	025432.40
	BRGZ,SERS	1304.35	42	025433.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025433.40
SIC,SEN		1310.00	80	025434.40
	BRGZ,SERS	1304.35	42	025435.00
DL%U□,DMY61		30032.44	60	025435.40
D*%U□,DMY19	-1 IN POS 19	27760.45	A0	025436.00
CT0110%BU,48□,DMY19+.12,20		27760.14	80 060012.15 70	025436.40
SIC,SEN		1310.00	80	025437.40
	BRGZ,SERS	1304.35	42	025440.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025440.40
SIC,SEN		1310.00	80	025441.40
	BRGZ,SERS	1304.35	42	025442.00
DL%U□,DMY61		30032.44	60	025442.40
D*%U□,DMY20	-1 IN POS 20	27761.45	A0	025443.00
CT0110%BU,48□,DMY20+.12,20		27761.14	80 060012.15 70	025443.40
SIC,SEN		1310.00	80	025444.40
	BRGZ,SERS	1304.35	42	025445.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025445.40
SIC,SEN		1310.00	80	025446.40
	BRGZ,SERS	1304.35	42	025447.00
DL%U□,DMY61		30032.44	60	025447.40
D*%U□,DMY21	-1 IN POS 21	27762.45	A0	025450.00
CT0110%BU,48□,DMY21+.12,20		27762.14	80 060012.15 70	025450.40
SIC,SEN		1310.00	80	025451.40
	BRGZ,SERS	1304.35	42	025452.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025452.40
SIC,SEN		1310.00	80	025453.40
	BRGZ,SERS	1304.35	42	025454.00
DL%U□,DMY61		30032.44	60	025454.40
D*%U□,DMY22	-1 IN POS 22	27763.45	A0	025455.00
CT0110%BU,48□,DMY22+.12,20		27763.14	80 060012.15 70	025455.40
SIC,SEN		1310.00	80	025456.40
	BRGZ,SERS	1304.35	42	025457.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025457.40
SIC,SEN		1310.00	80	025460.40
	BRGZ,SERS	1304.35	42	025461.00
DL%U□,DMY61		30032.44	60	025461.40
D*%U□,DMY23	-1 IN POS 23	27764.45	A0	025462.00
CT0110%BU,48□,DMY23+.12,20		27764.14	80 060012.15 70	025462.40
SIC,SEN		1310.00	80	025463.40
	BRGZ,SERS	1304.35	42	025464.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025464.40
SIC,SEN		1310.00	80	025465.40
	BRGZ,SERS	1304.35	42	025466.00
DL%U□,DMY61		30032.44	60	025466.40
D*%U□,DMY24	-1 IN POS 24	27765.45	A0	025467.00
CT0110%BU,48□,DMY24+.12,20		27765.14	80 060012.15 70	025467.40
SIC,SEN		1310.00	80	025470.40
	BRGZ,SERS	1304.35	42	025471.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025471.40
SIC,SEN		1310.00	80	025472.40
	BRGZ,SERS	1304.35	42	025473.00
DL%U□,DMY61		30032.44	60	025473.40
D*%U□,DMY25	-1 IN POS 25	27766.45	A0	025474.00
CT0110%BU,48□,DMY25+.12,20		27766.14	80 060012.15 70	025474.40
SIC,SEN		1310.00	80	025475.40
	BRGZ,SERS	1304.35	42	025476.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	025476.40
SIC,SEN		1310.00	80	025477.40
	BRGZ,SERS	1304.35	42	025500.00
DL%U□,DMY61		30032.44	60	025500.40

D*%UH,DMY26	-1 IN POS 26	27767.45	AO	025501.00
CT0110%BU,48H,DMY26+.12,20		27767.14	80 060012.15 70	025501.40
SIC,SEN		1310.00	80	025502.40
BRGZ,SERS		1304.35	42	025503.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025503.40
SIC,SEN		1310.00	80	025504.40
BRGZ,SERS		1304.35	42	025505.00
DL%UH,DMY61		30032.44	60	025505.40
D*%UH,DMY27	-1 IN POS 27	27770.45	AO	025506.00
CT0110%BU,48H,DMY27+.12,20		27770.14	80 060012.15 70	025506.40
SIC,SEN		1310.00	80	025507.40
BRGZ,SERS		1304.35	42	025510.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025510.40
SIC,SEN		1310.00	80	025511.40
BRGZ,SERS		1304.35	42	025512.00
DL%UH,DMY61		30032.44	60	025512.40
D*%UH,DMY28	-1 IN POS 28	27771.45	AO	025513.00
CT0110%BU,48H,DMY28+.12,20		27771.14	80 060012.15 70	025513.40
SIC,SEN		1310.00	80	025514.40
BRGZ,SERS		1304.35	42	025515.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025515.40
SIC,SEN		1310.00	80	025516.40
BRGZ,SERS		1304.35	42	025517.00
DL%UH,DMY61		30032.44	60	025517.40
D*%UH,DMY29	-1 IN POS 29	27772.45	AO	025520.00
CT0110%BU,48H,DMY29+.12,20		27772.14	80 060012.15 70	025520.40
SIC,SEN		1310.00	80	025521.40
BRGZ,SERS		1304.35	42	025522.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025522.40
SIC,SEN		1310.00	80	025523.40
BRGZ,SERS		1304.35	42	025524.00
DL%UH,DMY61		30032.44	60	025524.40
D*%UH,DMY30	-1 IN POS 30	27773.45	AO	025525.00
CT0110%BU,48H,DMY30+.12,20		27773.14	80 060012.15 70	025525.40
SIC,SEN		1310.00	80	025526.40
BRGZ,SERS		1304.35	42	025527.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025527.40
SIC,SEN		1310.00	80	025530.40
BRGZ,SERS		1304.35	42	025531.00
DL%UH,DMY61		30032.44	60	025531.40
D*%UH,DMY31	-1 IN POS 31	27774.45	AO	025532.00
CT0110%BU,48H,DMY31+.12,20		27774.14	80 060012.15 70	025532.40
SIC,SEN		1310.00	80	025533.40
BRGZ,SERS		1304.35	42	025534.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025534.40
SIC,SEN		1310.00	80	025535.40
BRGZ,SERS		1304.35	42	025536.00
DL%UH,DMY61		30032.44	60	025536.40
D*%UH,DMY32	-1 IN POS 32	27775.45	AO	025537.00
CT0110%BU,48H,DMY32+.12,20		27775.14	80 060012.15 70	025537.40
SIC,SEN		1310.00	80	025540.40
BRGZ,SERS		1304.35	42	025541.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025541.40
SIC,SEN		1310.00	80	025542.40
BRGZ,SERS		1304.35	42	025543.00
DL%UH,DMY61		30032.44	60	025543.40
D*%UH,DMY33	-1 IN POS 33	27776.45	AO	025544.00
CT0110%BU,48H,DMY33+.12,20		27776.14	80 060012.15 70	025544.40
SIC,SEN		1310.00	80	025545.40
BRGZ,SERS		1304.35	42	025546.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025546.40
SIC,SEN		1310.00	80	025547.40
BRGZ,SERS		1304.35	42	025550.00
DL%UH,DMY61		30032.44	60	025550.40
D*%UH,DMY34	-1 IN POS 34	27777.45	AO	025551.00
CT0110%BU,48H,DMY34+.12,20		27777.14	80 060012.15 70	025551.40

SIC,SEN		1310.00	80		025552.40
BRGZ,SERS		1304.35	42		025553.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025553.40
SIC,SEN		1310.00	80		025554.40
BRGZ,SERS		1304.35	42		025555.00
DL%UH,DMY61		30032.44	60		025555.40
D*%UH,DMY35	-1 IN POS 35	30000.45	AO		025556.00
CT0110%BU,48H,DMY35+.12,20		30000.14	80	060012.15 70	025556.40
SIC,SEN		1310.00	80		025557.40
BRGZ,SERS		1304.35	42		025560.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025560.40
SIC,SEN		1310.00	80		025561.40
BRGZ,SERS		1304.35	42		025562.00
DL%UH,DMY61		30032.44	60		025562.40
D*%UH,DMY36	-1 IN POS 36	30001.45	AO		025563.00
CT0110%BU,48H,DMY36+.12,20		30001.14	80	060012.15 70	025563.40
SIC,SEN		1310.00	80		025564.40
BRGZ,SERS		1304.35	42		025565.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025565.40
SIC,SEN		1310.00	80		025566.40
BRGZ,SERS		1304.35	42		025567.00
DL%UH,DMY61		30032.44	60		025567.40
D*%UH,DMY37	-1 IN POS 37	30002.45	AO		025570.00
CT0110%BU,48H,DMY37+.12,20		30002.14	80	060012.15 70	025570.40
SIC,SEN		1310.00	80		025571.40
BRGZ,SERS		1304.35	42		025572.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025572.40
SIC,SEN		1310.00	80		025573.40
BRGZ,SERS		1304.35	42		025574.00
DL%UH,DMY61		30032.44	60		025574.40
D*%UH,DMY38	-1 IN POS 38	30003.45	AO		025575.00
CT0110%BU,48H,DMY38+.12,20		30003.14	80	060012.15 70	025575.40
SIC,SEN		1310.00	80		025576.40
BRGZ,SERS		1304.35	42		025577.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025577.40
SIC,SEN		1310.00	80		025600.40
BRGZ,SERS		1304.35	42		025601.00
DL%UH,DMY61		30032.44	60		025601.40
D*%UH,DMY39	-1 IN POS 39	30004.45	AO		025602.00
CT0110%BU,48H,DMY39+.12,20		30004.14	80	060012.15 70	025602.40
SIC,SEN		1310.00	80		025603.40
BRGZ,SERS		1304.35	42		025604.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025604.40
SIC,SEN		1310.00	80		025605.40
BRGZ,SERS		1304.35	42		025606.00
DL%UH,DMY61		30032.44	60		025606.40
D*%UH,DMY40	-1 IN POS 40	30005.45	AO		025607.00
CT0110%BU,48H,DMY40+.12,20		30005.14	80	060012.15 70	025607.40
SIC,SEN		1310.00	80		025610.40
BRGZ,SERS		1304.35	42		025611.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025611.40
SIC,SEN		1310.00	80		025612.40
BRGZ,SERS		1304.35	42		025613.00
DL%UH,DMY61		30032.44	60		025613.40
D*%UH,DMY41	-1 IN POS 41	30006.45	AO		025614.00
CT0110%BU,48H,DMY41+.12,20		30006.14	80	060012.15 70	025614.40
SIC,SEN		1310.00	80		025615.40
BRGZ,SERS		1304.35	42		025616.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025616.40
SIC,SEN		1310.00	80		025617.40
BRGZ,SERS		1304.35	42		025620.00
DL%UH,DMY61		30032.44	60		025620.40
D*%UH,DMY42	-1 IN POS 42	30007.45	AO		025621.00
CT0110%BU,48H,DMY42+.12,20		30007.14	80	060012.15 70	025621.40
SIC,SEN		1310.00	80		025622.40
BRGZ,SERS		1304.35	42		025623.00

CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025623.40
SIC,SEN	1310.00	80			025624.40
BRGZ,SERS	1304.35	42			025625.00
DL%U#,DMY61	30032.44	60			025625.40
D*%U#,DMY43 -1 IN POS 43	30010.45	A0			025626.00
CT0110%BU,48#,DMY43+.12,20	30010.14	80	060012.15	70	025626.40
SIC,SEN	1310.00	80			025627.40
BRGZ,SERS	1304.35	42			025630.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025630.40
SIC,SEN	1310.00	80			025631.40
BRGZ,SERS	1304.35	42			025632.00
DL%U#,DMY61	30032.44	60			025632.40
D*%U#,DMY44 -1 IN POS 44	30011.45	A0			025633.00
CT0110%BU,48#,DMY44+.12,20	30011.14	80	060012.15	70	025633.40
SIC,SEN	1310.00	80			025634.40
BRGZ,SERS	1304.35	42			025635.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025635.40
SIC,SEN	1310.00	80			025636.40
BRGZ,SERS	1304.35	42			025637.00
DL%U#,DMY61	30032.44	60			025637.40
D*%U#,DMY45 -1 IN POS 45	30012.45	A0			025640.00
CT0110%BU,48#,DMY45+.12,20	30012.14	80	060012.15	70	025640.40
SIC,SEN	1310.00	80			025641.40
BRGZ,SERS	1304.35	42			025642.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025642.40
SIC,SEN	1310.00	80			025643.40
BRGZ,SERS	1304.35	42			025644.00
DL%U#,DMY61	30032.44	60			025644.40
D*%U#,DMY46 -1 IN POS 46	30013.45	A0			025645.00
CT0110%BU,48#,DMY46+.12,20	30013.14	80	060012.15	70	025645.40
SIC,SEN	1310.00	80			025646.40
BRGZ,SERS	1304.35	42			025647.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025647.40
SIC,SEN	1310.00	80			025650.40
BRGZ,SERS	1304.35	42			025651.00
DL%U#,DMY61	30032.44	60			025651.40
D*%U#,DMY47 -1 IN POS 47	30014.45	A0			025652.00
CT0110%BU,48#,DMY47+.12,20	30014.14	80	060012.15	70	025652.40
SIC,SEN	1310.00	80			025653.40
BRGZ,SERS	1304.35	42			025654.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025654.40
SIC,SEN	1310.00	80			025655.40
BRGZ,SERS	1304.35	42			025656.00
DL%U#,DMY61	30032.44	60			025656.40
D*%U#,DMY48 -1 IN POS 48	30015.45	A0			025657.00
CT0110%BU,48#,DMY48+.12,20	30015.14	80	060012.15	70	025657.40
SIC,SEN	1310.00	80			025660.40
BRGZ,SERS	1304.35	42			025661.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025661.40
SIC,SEN	1310.00	80			025662.40
BRGZ,SERS	1304.35	42			025663.00
DL%U#,DMY61	30032.44	60			025663.40
D*%U#,DMY49 -1 IN POS 49	30016.45	A0			025664.00
CT0110%BU,48#,DMY49+.12,20	30016.14	80	060012.15	70	025664.40
SIC,SEN	1310.00	80			025665.40
BRGZ,SERS	1304.35	42			025666.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025666.40
SIC,SEN	1310.00	80			025667.40
BRGZ,SERS	1304.35	42			025670.00
DL%U#,DMY61	30032.44	60			025670.40
D*%U#,DMY50 -1 IN POS 50	30017.45	A0			025671.00
CT0110%BU,48#,DMY50+.12,20	30017.14	80	060012.15	70	025671.40
SIC,SEN	1310.00	80			025672.40
BRGZ,SERS	1304.35	42			025673.00
CT0110%BU,60#,DMY122,68	30126.00	80	074042.15	70	025673.40
SIC,SEN	1310.00	80			025674.40

BRGZ,SERS	1304.35	42	025675.00
DL%UH,DMY61	30032.44	60	025675.40
D*%UH,DMY51 -1 IN POS 51	30020.45	A0	025676.00
CT0110%BU,48H,DMY51+.12,20	30020.14	80 060012.15 70	025676.40
SIC,SEN	1310.00	80	025677.40
BRGZ,SERS	1304.35	42	025700.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025700.40
SIC,SEN	1310.00	80	025701.40
BRGZ,SERS	1304.35	42	025702.00
DL%UH,DMY61	30032.44	60	025702.40
D*%UH,DMY52 -1 IN POS 52	30021.45	A0	025703.00
CT0110%BU,48H,DMY52+.12,20	30021.14	80 060012.15 70	025703.40
SIC,SEN	1310.00	80	025704.40
BRGZ,SERS	1304.35	42	025705.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025705.40
SIC,SEN	1310.00	80	025706.40
BRGZ,SERS	1304.35	42	025707.00
DL%UH,DMY61	30032.44	60	025707.40
D*%UH,DMY53 -1 IN POS 53	30022.45	A0	025710.00
CT0110%BU,48H,DMY53+.12,20	30022.14	80 060012.15 70	025710.40
SIC,SEN	1310.00	80	025711.40
BRGZ,SERS	1304.35	42	025712.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025712.40
SIC,SEN	1310.00	80	025713.40
BRGZ,SERS	1304.35	42	025714.00
DL%UH,DMY61	30032.44	60	025714.40
D*%UH,DMY54 -1 IN POS 54	30023.45	A0	025715.00
CT0110%BU,48H,DMY54+.12,20	30023.14	80 060012.15 70	025715.40
SIC,SEN	1310.00	80	025716.40
BRGZ,SERS	1304.35	42	025717.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025717.40
SIC,SEN	1310.00	80	025720.40
BRGZ,SERS	1304.35	42	025721.00
DL%UH,DMY61	30032.44	60	025721.40
D*%UH,DMY55 -1 IN POS 55	30024.45	A0	025722.00
CT0110%BU,48H,DMY55+.12,20	30024.14	80 060012.15 70	025722.40
SIC,SEN	1310.00	80	025723.40
BRGZ,SERS	1304.35	42	025724.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025724.40
SIC,SEN	1310.00	80	025725.40
BRGZ,SERS	1304.35	42	025726.00
DL%UH,DMY61	30032.44	60	025726.40
D*%UH,DMY56 -1 IN POS 56	30025.45	A0	025727.00
CT0110%BU,48H,DMY56+.12,20	30025.14	80 060012.15 70	025727.40
SIC,SEN	1310.00	80	025730.40
BRGZ,SERS	1304.35	42	025731.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025731.40
SIC,SEN	1310.00	80	025732.40
BRGZ,SERS	1304.35	42	025733.00
DL%UH,DMY61	30032.44	60	025733.40
D*%UH,DMY57 -1 IN POS 57	30026.45	A0	025734.00
CT0110%BU,48H,DMY57+.12,20	30026.14	80 060012.15 70	025734.40
SIC,SEN	1310.00	80	025735.40
BRGZ,SERS	1304.35	42	025736.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025736.40
SIC,SEN	1310.00	80	025737.40
BRGZ,SERS	1304.35	42	025740.00
DL%UH,DMY61	30032.44	60	025740.40
D*%UH,DMY58 -1 IN POS 58	30027.45	A0	025741.00
CT0110%BU,48H,DMY58+.12,20	30027.14	80 060012.15 70	025741.40
SIC,SEN	1310.00	80	025742.40
BRGZ,SERS	1304.35	42	025743.00
CT0110%BU,60H,DMY122,68	30126.00	80 074042.15 70	025743.40
SIC,SEN	1310.00	80	025744.40
BRGZ,SERS	1304.35	42	025745.00
DL%UH,DMY61	30032.44	60	025745.40

D*%UH,DMY59	-1 IN POS 59	30030.45	AO	025746.00
CT0110%BU,48H,DMY59+,12,20		30030.14	80 060012.15 70	025746.40
SIC,SEN		1310.00	80	025747.40
	BRGZ,SERS	1304.35	42	025750.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	025750.40
SIC,SEN		1310.00	80	025751.40
	BRGZ,SERS	1304.35	42	025752.00
BD,S+1.0		25753.44	00	025752.40
	B,MLGAT1	25370.10	00	025753.00
SIC,SEN0+.32		1311.40	80	025753.40
	E,SSW	1301.10	00	025754.00
MP301A DL%UH,DMY76		30051.44	60	025754.40

D*%UH,DMY12	-1 IN POS 12	27751.45	A0		025755.00
CT0110%BU,48H,DMY122,20		30126.00	80	060012.15 70	025755.40
SIC,SEN		1310.00	80		025756.40
	BRGZ,SERS	1304.35	42		025757.00
CT0110%BU,60H,DMY57,68		30026.00	80	074042.15 70	025757.40
SIC,SEN		1310.00	80		025760.40
	BRGZ,SERS	1304.35	42		025761.00
DL%UH,DMY76		30051.44	60		025761.40
D*%UH,DMY13	-1 IN POS 13	27752.45	A0		025762.00
CT0110%BU,48H,DMY122,20		30126.00	80	060012.15 70	025762.40
SIC,SEN		1310.00	80		025763.40
	BRGZ,SERS	1304.35	42		025764.00
CT0110%BU,60H,DMY58,68		30027.00	80	074042.15 70	025764.40
SIC,SEN		1310.00	80		025765.40
	BRGZ,SERS	1304.35	42		025766.00
DL%UH,DMY76		30051.44	60		025766.40
D*%UH,DMY14	-1 IN POS 14	27753.45	A0		025767.00
CT0110%BU,48H,DMY122,20		30126.00	80	060012.15 70	025767.40
SIC,SEN		1310.00	80		025770.40
	BRGZ,SERS	1304.35	42		025771.00
CT0110%BU,60H,DMY59,68		30030.00	80	074042.15 70	025771.40
SIC,SEN		1310.00	80		025772.40
	BRGZ,SERS	1304.35	42		025773.00
DL%UH,DMY76		30051.44	60		025773.40
D*%UH,DMY15	-1 IN POS 15	27754.45	A0		025774.00
CT0110%BU,48H,DMY12+.12,20		27751.14	80	060012.15 70	025774.40
SIC,SEN		1310.00	80		025775.40
	BRGZ,SERS	1304.35	42		025776.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	025776.40
SIC,SEN		1310.00	80		025777.40
	BRGZ,SERS	1304.35	42		026000.00
DL%UH,DMY76		30051.44	60		026000.40
D*%UH,DMY16	-1 IN POS 16	27755.45	A0		026001.00
CT0110%BU,48H,DMY13+.12,20		27752.14	80	060012.15 70	026001.40
SIC,SEN		1310.00	80		026002.40
	BRGZ,SERS	1304.35	42		026003.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026003.40
SIC,SEN		1310.00	80		026004.40
	BRGZ,SERS	1304.35	42		026005.00
DL%UH,DMY76		30051.44	60		026005.40
D*%UH,DMY17	-1 IN POS 17	27756.45	A0		026006.00
CT0110%BU,48H,DMY14+.12,20		27753.14	80	060012.15 70	026006.40
SIC,SEN		1310.00	80		026007.40
	BRGZ,SERS	1304.35	42		026010.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026010.40
SIC,SEN		1310.00	80		026011.40
	BRGZ,SERS	1304.35	42		026012.00
DL%UH,DMY76		30051.44	60		026012.40
D*%UH,DMY18	-1 IN POS 18	27757.45	A0		026013.00
CT0110%BU,48H,DMY15+.12,20		27754.14	80	060012.15 70	026013.40
SIC,SEN		1310.00	80		026014.40
	BRGZ,SERS	1304.35	42		026015.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026015.40
SIC,SEN		1310.00	80		026016.40
	BRGZ,SERS	1304.35	42		026017.00
DL%UH,DMY76		30051.44	60		026017.40
D*%UH,DMY19	-1 IN POS 19	27760.45	A0		026020.00
CT0110%BU,48H,DMY16+.12,20		27755.14	80	060012.15 70	026020.40
SIC,SEN		1310.00	80		026021.40
	BRGZ,SERS	1304.35	42		026022.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026022.40
SIC,SEN		1310.00	80		026023.40

BRGZ,SERS		1304.35	42	026024.00
DL%U□,DMY76		30051.44	60	026024.40
D*%U□,DMY20	-1 IN POS 20	27761.45	A0	026025.00
CT0110%BU,48□,DMY17+.12,20		27756.14	80 060012.15 70	026025.40
SIC,SEN		1310.00	80	026026.40
	BRGZ,SERS	1304.35	42	026027.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026027.40
SIC,SEN		1310.00	80	026030.40
	BRGZ,SERS	1304.35	42	026031.00
DL%U□,DMY76		30051.44	60	026031.40
D*%U□,DMY21	-1 IN POS 21	27762.45	A0	026032.00
CT0110%BU,48□,DMY18+.12,20		27757.14	80 060012.15 70	026032.40
SIC,SEN		1310.00	80	026033.40
	BRGZ,SERS	1304.35	42	026034.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026034.40
SIC,SEN		1310.00	80	026035.40
	BRGZ,SERS	1304.35	42	026036.00
DL%U□,DMY76		30051.44	60	026036.40
D*%U□,DMY22	-1 IN POS 22	27763.45	A0	026037.00
CT0110%BU,48□,DMY19+.12,20		27760.14	80 060012.15 70	026037.40
SIC,SEN		1310.00	80	026040.40
	BRGZ,SERS	1304.35	42	026041.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026041.40
SIC,SEN		1310.00	80	026042.40
	BRGZ,SERS	1304.35	42	026043.00
DL%U□,DMY76		30051.44	60	026043.40
D*%U□,DMY23	-1 IN POS 23	27764.45	A0	026044.00
CT0110%BU,48□,DMY20+.12,20		27761.14	80 060012.15 70	026044.40
SIC,SEN		1310.00	80	026045.40
	BRGZ,SERS	1304.35	42	026046.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026046.40
SIC,SEN		1310.00	80	026047.40
	BRGZ,SERS	1304.35	42	026050.00
DL%U□,DMY76		30051.44	60	026050.40
D*%U□,DMY24	-1 IN POS 24	27765.45	A0	026051.00
CT0110%BU,48□,DMY21+.12,20		27762.14	80 060012.15 70	026051.40
SIC,SEN		1310.00	80	026052.40
	BRGZ,SERS	1304.35	42	026053.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026053.40
SIC,SEN		1310.00	80	026054.40
	BRGZ,SERS	1304.35	42	026055.00
DL%U□,DMY76		30051.44	60	026055.40
D*%U□,DMY25	-1 IN POS 25	27766.45	A0	026056.00
CT0110%BU,48□,DMY22+.12,20		27763.14	80 060012.15 70	026056.40
SIC,SEN		1310.00	80	026057.40
	BRGZ,SERS	1304.35	42	026060.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026060.40
SIC,SEN		1310.00	80	026061.40
	BRGZ,SERS	1304.35	42	026062.00
DL%U□,DMY76		30051.44	60	026062.40
D*%U□,DMY26	-1 IN POS 26	27767.45	A0	026063.00
CT0110%BU,48□,DMY23+.12,20		27764.14	80 060012.15 70	026063.40
SIC,SEN		1310.00	80	026064.40
	BRGZ,SERS	1304.35	42	026065.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026065.40
SIC,SEN		1310.00	80	026066.40
	BRGZ,SERS	1304.35	42	026067.00
DL%U□,DMY76		30051.44	60	026067.40
D*%U□,DMY27	-1 IN POS 27	27770.45	A0	026070.00
CT0110%BU,48□,DMY24+.12,20		27765.14	80 060012.15 70	026070.40
SIC,SEN		1310.00	80	026071.40
	BRGZ,SERS	1304.35	42	026072.00
CT0110%BU,60□,DMY122,68		30126.00	80 074042.15 70	026072.40
SIC,SEN		1310.00	80	026073.40
	BRGZ,SERS	1304.35	42	026074.00
DL%U□,DMY76		30051.44	60	026074.40

D*%U□,DMY28	-1 IN POS 28	27771.45	A0		026075.00
CT0110%BU,48□,DMY25+.12,20		27766.14	80	060012.15 70	026075.40
SIC,SEN		1310.00	80		026076.40
BRGZ,SERS		1304.35	42		026077.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026077.40
SIC,SEN		1310.00	80		026100.40
BRGZ,SERS		1304.35	42		026101.00
DL%U□,DMY76		30051.44	60		026101.40
D*%U□,DMY29	-1 IN POS 29	27772.45	A0		026102.00
CT0110%BU,48□,DMY26+.12,20		27767.14	80	060012.15 70	026102.40
SIC,SEN		1310.00	80		026103.40
BRGZ,SERS		1304.35	42		026104.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026104.40
SIC,SEN		1310.00	80		026105.40
BRGZ,SERS		1304.35	42		026106.00
DL%U□,DMY76		30051.44	60		026106.40
D*%U□,DMY30	-1 IN POS 30	27773.45	A0		026107.00
CT0110%BU,48□,DMY27+.12,20		27770.14	80	060012.15 70	026107.40
SIC,SEN		1310.00	80		026110.40
BRGZ,SERS		1304.35	42		026111.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026111.40
SIC,SEN		1310.00	80		026112.40
BRGZ,SERS		1304.35	42		026113.00
DL%U□,DMY76		30051.44	60		026113.40
D*%U□,DMY31	-1 IN POS 31	27774.45	A0		026114.00
CT0110%BU,48□,DMY28+.12,20		27771.14	80	060012.15 70	026114.40
SIC,SEN		1310.00	80		026115.40
BRGZ,SERS		1304.35	42		026116.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026116.40
SIC,SEN		1310.00	80		026117.40
BRGZ,SERS		1304.35	42		026120.00
DL%U□,DMY76		30051.44	60		026120.40
D*%U□,DMY32	-1 IN POS 32	27775.45	A0		026121.00
CT0110%BU,48□,DMY29+.12,20		27772.14	80	060012.15 70	026121.40
SIC,SEN		1310.00	80		026122.40
BRGZ,SERS		1304.35	42		026123.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026123.40
SIC,SEN		1310.00	80		026124.40
BRGZ,SERS		1304.35	42		026125.00
DL%U□,DMY76		30051.44	60		026125.40
D*%U□,DMY33	-1 IN POS 33	27776.45	A0		026126.00
CT0110%BU,48□,DMY30+.12,20		27773.14	80	060012.15 70	026126.40
SIC,SEN		1310.00	80		026127.40
BRGZ,SERS		1304.35	42		026130.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026130.40
SIC,SEN		1310.00	80		026131.40
BRGZ,SERS		1304.35	42		026132.00
DL%U□,DMY76		30051.44	60		026132.40
D*%U□,DMY34	-1 IN POS 34	27777.45	A0		026133.00
CT0110%BU,48□,DMY31+.12,20		27774.14	80	060012.15 70	026133.40
SIC,SEN		1310.00	80		026134.40
BRGZ,SERS		1304.35	42		026135.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026135.40
SIC,SEN		1310.00	80		026136.40
BRGZ,SERS		1304.35	42		026137.00
DL%U□,DMY76		30051.44	60		026137.40
D*%U□,DMY35	-1 IN POS 35	30000.45	A0		026140.00
CT0110%BU,48□,DMY32+.12,20		27775.14	80	060012.15 70	026140.40
SIC,SEN		1310.00	80		026141.40
BRGZ,SERS		1304.35	42		026142.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026142.40
SIC,SEN		1310.00	80		026143.40
BRGZ,SERS		1304.35	42		026144.00
DL%U□,DMY76		30051.44	60		026144.40
D*%U□,DMY36	-1 IN POS 36	30001.45	A0		026145.00
CT0110%BU,48□,DMY33+.12,20		27776.14	80	060012.15 70	026145.40

SIC,SEN		1310.00	80		026146.40
BRGZ,SERS		1304.35	42		026147.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026147.40
SIC,SEN		1310.00	80		026150.40
BRGZ,SERS		1304.35	42		026151.00
DL%UH,DMY76		30051.44	60		026151.40
D*%UH,DMY37	-1 IN POS 37	30002.45	A0		026152.00
CT0110%BU,48H,DMY34+.12,20		27777.14	80	060012.15 70	026152.40
SIC,SEN		1310.00	80		026153.40
BRGZ,SERS		1304.35	42		026154.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026154.40
SIC,SEN		1310.00	80		026155.40
BRGZ,SERS		1304.35	42		026156.00
DL%UH,DMY76		30051.44	60		026156.40
D*%UH,DMY38	-1 IN POS 38	30003.45	A0		026157.00
CT0110%BU,48H,DMY35+.12,20		30000.14	80	060012.15 70	026157.40
SIC,SEN		1310.00	80		026160.40
BRGZ,SERS		1304.35	42		026161.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026161.40
SIC,SEN		1310.00	80		026162.40
BRGZ,SERS		1304.35	42		026163.00
DL%UH,DMY76		30051.44	60		026163.40
D*%UH,DMY39	-1 IN POS 39	30004.45	A0		026164.00
CT0110%BU,48H,DMY36+.12,20		30001.14	80	060012.15 70	026164.40
SIC,SEN		1310.00	80		026165.40
BRGZ,SERS		1304.35	42		026166.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026166.40
SIC,SEN		1310.00	80		026167.40
BRGZ,SERS		1304.35	42		026170.00
DL%UH,DMY76		30051.44	60		026170.40
D*%UH,DMY40	-1 IN POS 40	30005.45	A0		026171.00
CT0110%BU,48H,DMY37+.12,20		30002.14	80	060012.15 70	026171.40
SIC,SEN		1310.00	80		026172.40
BRGZ,SERS		1304.35	42		026173.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026173.40
SIC,SEN		1310.00	80		026174.40
BRGZ,SERS		1304.35	42		026175.00
DL%UH,DMY76		30051.44	60		026175.40
D*%UH,DMY41	-1 IN POS 41	30006.45	A0		026176.00
CT0110%BU,48H,DMY38+.12,20		30003.14	80	060012.15 70	026176.40
SIC,SEN		1310.00	80		026177.40
BRGZ,SERS		1304.35	42		026200.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026200.40
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026201.40
SIC,SEN		1310.00	80		026202.40
BRGZ,SERS		1304.35	42		026203.00
DL%UH,DMY76		30051.44	60		026203.40
D*%UH,DMY42	-1 IN POS 42	30007.45	A0		026204.00
CT0110%BU,48H,DMY39+.12,20		30004.14	80	060012.15 70	026204.40
SIC,SEN		1310.00	80		026205.40
BRGZ,SERS		1304.35	42		026206.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026206.40
SIC,SEN		1310.00	80		026207.40
BRGZ,SERS		1304.35	42		026210.00
DL%UH,DMY76		30051.44	60		026210.40
D*%UH,DMY43	-1 IN POS 43	30010.45	A0		026211.00
CT0110%BU,48H,DMY40+.12,20		30005.14	80	060012.15 70	026211.40
SIC,SEN		1310.00	80		026212.40
BRGZ,SERS		1304.35	42		026213.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026213.40
SIC,SEN		1310.00	80		026214.40
BRGZ,SERS		1304.35	42		026215.00
DL%UH,DMY76		30051.44	60		026215.40
D*%UH,DMY44	-1 IN POS 44	30011.45	A0		026216.00
CT0110%BU,48H,DMY41+.12,20		30006.14	80	060012.15 70	026216.40
SIC,SEN		1310.00	80		026217.40

	BRGZ,SERS	1304.35	42			026220.40
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026220.40
SIC,SEN		1310.00	80			026221.40
	BRGZ,SERS	1304.35	42			026222.00
DL%UH,DMY76		30051.44	60			026222.40
D*%UH,DMY45	-1 IN POS 45	30012.45	A0			026223.00
CT0110%BU,48H,DMY42+.12,20		30007.14	80	060012.15	70	026223.40
SIC,SEN		1310.00	80			026224.40
	BRGZ,SERS	1304.35	42			026225.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026225.40
SIC,SEN		1310.00	80			026226.40
	BRGZ,SERS	1304.35	42			026227.00
DL%UH,DMY76		30051.44	60			026227.40
D*%UH,DMY46	-1 IN POS 46	30013.45	A0			026230.00
CT0110%BU,48H,DMY43+.12,20		30010.14	80	060012.15	70	026230.40
SIC,SEN		1310.00	80			026231.40
	BRGZ,SERS	1304.35	42			026232.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026232.40
SIC,SEN		1310.00	80			026233.40
	BRGZ,SERS	1304.35	42			026234.00
DL%UH,DMY76		30051.44	60			026234.40
D*%UH,DMY47	-1 IN POS 47	30014.45	A0			026235.00
CT0110%BU,48H,DMY44+.12,20		30011.14	80	060012.15	70	026235.40
SIC,SEN		1310.00	80			026236.40
	BRGZ,SERS	1304.35	42			026237.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026237.40
SIC,SEN		1310.00	80			026240.40
	BRGZ,SERS	1304.35	42			026241.00
DL%UH,DMY76		30051.44	60			026241.40
D*%UH,DMY48	-1 IN POS 48	30015.45	A0			026242.00
CT0110%BU,48H,DMY45+.12,20		30012.14	80	060012.15	70	026242.40
SIC,SEN		1310.00	80			026243.40
	BRGZ,SERS	1304.35	42			026244.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026244.40
SIC,SEN		1310.00	80			026245.40
	BRGZ,SERS	1304.35	42			026246.00
DL%UH,DMY76		30051.44	60			026246.40
D*%UH,DMY49	-1 IN POS 49	30016.45	A0			026247.00
CT0110%BU,48H,DMY46+.12,20		30013.14	80	060012.15	70	026247.40
SIC,SEN		1310.00	80			026250.40
	BRGZ,SERS	1304.35	42			026251.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026251.40
SIC,SEN		1310.00	80			026252.40
	BRGZ,SERS	1304.35	42			026253.00
DL%UH,DMY76		30051.44	60			026253.40
D*%UH,DMY50	-1 IN POS 50	30017.45	A0			026254.00
CT0110%BU,48H,DMY47+.12,20		30014.14	80	060012.15	70	026254.40
SIC,SEN		1310.00	80			026255.40
	BRGZ,SERS	1304.35	42			026256.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026256.40
SIC,SEN		1310.00	80			026257.40
	BRGZ,SERS	1304.35	42			026260.00
DL%UH,DMY76		30051.44	60			026260.40
D*%UH,DMY51	-1 IN POS 51	30020.45	A0			026261.00
CT0110%BU,48H,DMY48+.12,20		30015.14	80	060012.15	70	026261.40
SIC,SEN		1310.00	80			026262.40
	BRGZ,SERS	1304.35	42			026263.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026263.40
SIC,SEN		1310.00	80			026264.40
	BRGZ,SERS	1304.35	42			026265.00
DL%UH,DMY76		30051.44	60			026265.40
D*%UH,DMY52	-1 IN POS 52	30021.45	A0			026266.00
CT0110%BU,48H,DMY49+.12,20		30016.14	80	060012.15	70	026266.40
SIC,SEN		1310.00	80			026267.40
	BRGZ,SERS	1304.35	42			026270.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	026270.40

SIC,SEN		1310.00	80		026271.40
BRGZ,SERS		1304.35	42		026272.00
DL%U#,DMY76		30051.44	60		026272.40
D*%U#,DMY53	-1 IN POS 53	30022.45	A0		026273.00
CT0110%BU,48#,DMY50+.12,20		30017.14	80	060012.15 70	026273.40
SIC,SEN		1310.00	80		026274.40
BRGZ,SERS		1304.35	42		026275.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026275.40
SIC,SEN		1310.00	80		026276.40
BRGZ,SERS		1304.35	42		026277.00
DL%U#,DMY76		30051.44	60		026277.40
D*%U#,DMY54	-1 IN POS 54	30023.45	A0		026300.00
CT0110%BU,48#,DMY51+.12,20		30020.14	80	060012.15 70	026300.40
SIC,SEN		1310.00	80		026301.40
BRGZ,SERS		1304.35	42		026302.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026302.40
SIC,SEN		1310.00	80		026303.40
BRGZ,SERS		1304.35	42		026304.00
DL%U#,DMY76		30051.44	60		026304.40
D*%U#,DMY55	-1 IN POS 55	30024.45	A0		026305.00
CT0110%BU,48#,DMY52+.12,20		30021.14	80	060012.15 70	026305.40
SIC,SEN		1310.00	80		026306.40
BRGZ,SERS		1304.35	42		026307.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026307.40
SIC,SEN		1310.00	80		026310.40
BRGZ,SERS		1304.35	42		026311.00
DL%U#,DMY76		30051.44	60		026311.40
D*%U#,DMY56	-1 IN POS 56	30025.45	A0		026312.00
CT0110%BU,48#,DMY53+.12,20		30022.14	80	060012.15 70	026312.40
SIC,SEN		1310.00	80		026313.40
BRGZ,SERS		1304.35	42		026314.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026314.40
SIC,SEN		1310.00	80		026315.40
BRGZ,SERS		1304.35	42		026316.00
DL%U#,DMY76		30051.44	60		026316.40
D*%U#,DMY57	-1 IN POS 57	30026.45	A0		026317.00
CT0110%BU,48#,DMY54+.12,20		30023.14	80	060012.15 70	026317.40
SIC,SEN		1310.00	80		026320.40
BRGZ,SERS		1304.35	42		026321.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026321.40
SIC,SEN		1310.00	80		026322.40
BRGZ,SERS		1304.35	42		026323.00
DL%U#,DMY76		30051.44	60		026323.40
D*%U#,DMY58	-1 IN POS 58	30027.45	A0		026324.00
CT0110%BU,48#,DMY55+.12,20		30024.14	80	060012.15 70	026324.40
SIC,SEN		1310.00	80		026325.40
BRGZ,SERS		1304.35	42		026326.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026326.40
SIC,SEN		1310.00	80		026327.40
BRGZ,SERS		1304.35	42		026330.00
DL%U#,DMY76		30051.44	60		026330.40
D*%U#,DMY59	-1 IN POS 59	30030.45	A0		026331.00
CT0110%BU,48#,DMY56+.12,20		30025.14	80	060012.15 70	026331.40
SIC,SEN		1310.00	80		026332.40
BRGZ,SERS		1304.35	42		026333.00
CT0110%BU,60#,DMY122,68		30126.00	80	074042.15 70	026333.40
SIC,SEN		1310.00	80		026334.40
BRGZ,SERS		1304.35	42		026335.00
B,S+1.		26336.50	00		026335.40
B,MP301A		25754.50	00		026336.00
SIC,SEN0+.32		1311.40	80		026336.40
B,SSW		1301.10	00		026337.00

MP301B	DL%U□,DMY77		30052.44	60		026337.40
	D*%U□,DMY12	-1 IN POS 12	27751.45	A0		026340.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026340.40
	SIC,SEN		1310.00	80		026341.40
	BRGZ,SERS		1304.35	42		026342.00
	CT0110%BU,60□,DMY54,68		30023.00	80	074042.15 70	026342.40
	SIC,SEN		1310.00	80		026343.40
	BRGZ,SERS		1304.35	42		026344.00
	DL%U□,DMY77		30052.44	60		026344.40
	D*%U□,DMY13	-1 IN POS 13	27752.45	A0		026345.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026345.40
	SIC,SEN		1310.00	80		026346.40
	BRGZ,SERS		1304.35	42		026347.00
	CT0110%BU,60□,DMY55,68		30024.00	80	074042.15 70	026347.40
	SIC,SEN		1310.00	80		026350.40
	BRGZ,SERS		1304.35	42		026351.00
	DL%U□,DMY77		30052.44	60		026351.40
	D*%U□,DMY14	-1 IN POS 14	27753.45	A0		026352.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026352.40
	SIC,SEN		1310.00	80		026353.40
	BRGZ,SERS		1304.35	42		026354.00
	CT0110%BU,60□,DMY56,68		30025.00	80	074042.15 70	026354.40
	SIC,SEN		1310.00	80		026355.40
	BRGZ,SERS		1304.35	42		026356.00
	DL%U□,DMY77		30052.44	60		026356.40
	D*%U□,DMY15	-1 IN POS 15	27754.45	A0		026357.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026357.40
	SIC,SEN		1310.00	80		026360.40
	BRGZ,SERS		1304.35	42		026361.00
	CT0110%BU,60□,DMY57,68		30026.00	80	074042.15 70	026361.40
	SIC,SEN		1310.00	80		026362.40
	BRGZ,SERS		1304.35	42		026363.00
	DL%U□,DMY77		30052.44	60		026363.40
	D*%U□,DMY16	-1 IN POS 16	27755.45	A0		026364.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026364.40
	SIC,SEN		1310.00	80		026365.40
	BRGZ,SERS		1304.35	42		026366.00
	CT0110%BU,60□,DMY58,68		30027.00	80	074042.15 70	026366.40
	SIC,SEN		1310.00	80		026367.40
	BRGZ,SERS		1304.35	42		026370.00
	DL%U□,DMY77		30052.44	60		026370.40
	D*%U□,DMY17	-1 IN POS 17	27756.45	A0		026371.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026371.40
	SIC,SEN		1310.00	80		026372.40
	BRGZ,SERS		1304.35	42		026373.00
	CT0110%BU,60□,DMY59,68		30030.00	80	074042.15 70	026373.40
	SIC,SEN		1310.00	80		026374.40
	BRGZ,SERS		1304.35	42		026375.00
	DL%U□,DMY77		30052.44	60		026375.40
	D*%U□,DMY18	-1 IN POS 18	27757.45	A0		026376.00
	CT0110%BU,48□,DMY12+,12,20		27751.14	80	060012.15 70	026376.40
	SIC,SEN		1310.00	80		026377.40
	BRGZ,SERS		1304.35	42		026400.00
	CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026400.40
	SIC,SEN		1310.00	80		026401.40
	BRGZ,SERS		1304.35	42		026402.00
	DL%U□,DMY77		30052.44	60		026402.40
	D*%U□,DMY19	-1 IN POS 19	27760.45	A0		026403.00
	CT0110%BU,48□,DMY13+,12,20		27752.14	80	060012.15 70	026403.40
	SIC,SEN		1310.00	80		026404.40
	BRGZ,SERS		1304.35	42		026405.00
	CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	026405.40

SIC,SEN		1310.00	80	026406.40
BRGZ,SERS		1304.35	42	026407.00
DL%UH,DMY77		30052.44	60	026407.40
D*%UH,DMY20	-1 IN POS 20	27761.45	A0	026410.00
CT0110%BU,48H,DMY14+.12,20		27753.14	80 060012.15 70	026410.40
SIC,SEN		1310.00	80	026411.40
BRGZ,SERS		1304.35	42	026412.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026412.40
SIC,SEN		1310.00	80	026413.40
BRGZ,SERS		1304.35	42	026414.00
DL%UH,DMY77		30052.44	60	026414.40
D*%UH,DMY21	-1 IN POS 21	27762.45	A0	026415.00
CT0110%BU,48H,DMY15+.12,20		27754.14	80 060012.15 70	026415.40
SIC,SEN		1310.00	80	026416.40
BRGZ,SERS		1304.35	42	026417.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026417.40
SIC,SEN		1310.00	80	026420.40
BRGZ,SERS		1304.35	42	026421.00
DL%UH,DMY77		30052.44	60	026421.40
D*%UH,DMY22	-1 IN POS 22	27763.45	A0	026422.00
CT0110%BU,48H,DMY16+.12,20		27755.14	80 060012.15 70	026422.40
SIC,SEN		1310.00	80	026423.40
BRGZ,SERS		1304.35	42	026424.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026424.40
SIC,SEN		1310.00	80	026425.40
BRGZ,SERS		1304.35	42	026426.00
DL%UH,DMY77		30052.44	60	026426.40
D*%UH,DMY23	-1 IN POS 23	27764.45	A0	026427.00
CT0110%BU,48H,DMY17+.12,20		27756.14	80 060012.15 70	026427.40
SIC,SEN		1310.00	80	026430.40
BRGZ,SERS		1304.35	42	026431.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026431.40
SIC,SEN		1310.00	80	026432.40
BRGZ,SERS		1304.35	42	026433.00
DL%UH,DMY77		30052.44	60	026433.40
D*%UH,DMY24	-1 IN POS 24	27765.45	A0	026434.00
CT0110%BU,48H,DMY18+.12,20		27757.14	80 060012.15 70	026434.40
SIC,SEN		1310.00	80	026435.40
BRGZ,SERS		1304.35	42	026436.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026436.40
SIC,SEN		1310.00	80	026437.40
BRGZ,SERS		1304.35	42	026440.00
DL%UH,DMY77		30052.44	60	026440.40
D*%UH,DMY25	-1 IN POS 25	27766.45	A0	026441.00
CT0110%BU,48H,DMY19+.12,20		27760.14	80 060012.15 70	026441.40
SIC,SEN		1310.00	80	026442.40
BRGZ,SERS		1304.35	42	026443.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026443.40
SIC,SEN		1310.00	80	026444.40
BRGZ,SERS		1304.35	42	026445.00
DL%UH,DMY77		30052.44	60	026445.40
D*%UH,DMY26	-1 IN POS 26	27767.45	A0	026446.00
CT0110%BU,48H,DMY20+.12,20		27761.14	80 060012.15 70	026446.40
SIC,SEN		1310.00	80	026447.40
BRGZ,SERS		1304.35	42	026450.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026450.40
SIC,SEN		1310.00	80	026451.40
BRGZ,SERS		1304.35	42	026452.00
DL%UH,DMY77		30052.44	60	026452.40
D*%UH,DMY27	-1 IN POS 27	27770.45	A0	026453.00
CT0110%BU,48H,DMY21+.12,20		27762.14	80 060012.15 70	026453.40
SIC,SEN		1310.00	80	026454.40
BRGZ,SERS		1304.35	42	026455.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026455.40
SIC,SEN		1310.00	80	026456.40
BRGZ,SERS		1304.35	42	026457.00

DL%UH,DMY77		30052.44	60		026457.40
D*%UH,DMY28	-1 IN POS 28	27771.45	A0		026460.00
CT0110%BU,48H,DMY22+.12,20		27763.14	80	060012.15 70	026450.40
SIC,SEN		1310.00	80		026451.40
	BRGZ,SERS	1304.35	42		026452.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026452.40
SIC,SEN		1310.00	80		026463.40
	BRGZ,SERS	1304.35	42		026464.00
DL%UH,DMY77		30052.44	60		026464.40
D*%UH,DMY29	-1 IN POS 29	27772.45	A0		026465.00
CT0110%BU,48H,DMY23+.12,20		27764.14	80	060012.15 70	026465.40
SIC,SEN		1310.00	80		026466.40
	BRGZ,SERS	1304.35	42		026467.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026467.40
SIC,SEN		1310.00	80		026470.40
	BRGZ,SERS	1304.35	42		026471.00
DL%UH,DMY77		30052.44	60		026471.40
D*%UH,DMY30	-1 IN POS 30	27773.45	A0		026472.00
CT0110%BU,48H,DMY24+.12,20		27765.14	80	060012.15 70	026472.40
SIC,SEN		1310.00	80		026473.40
	BRGZ,SERS	1304.35	42		026474.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026474.40
SIC,SEN		1310.00	80		026475.40
	BRGZ,SERS	1304.35	42		026476.00
DL%UH,DMY77		30052.44	60		026476.40
D*%UH,DMY31	-1 IN POS 31	27774.45	A0		026477.00
CT0110%BU,48H,DMY25+.12,20		27766.14	80	060012.15 70	026477.40
SIC,SEN		1310.00	80		026500.40
	BRGZ,SERS	1304.35	42		026501.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026501.40
SIC,SEN		1310.00	80		026502.40
	BRGZ,SERS	1304.35	42		026503.00
DL%UH,DMY77		30052.44	60		026503.40
D*%UH,DMY32	-1 IN POS 32	27775.45	A0		026504.00
CT0110%BU,48H,DMY26+.12,20		27767.14	80	060012.15 70	026504.40
SIC,SEN		1310.00	80		026505.40
	BRGZ,SERS	1304.35	42		026506.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026506.40
SIC,SEN		1310.00	80		026507.40
	BRGZ,SERS	1304.35	42		026510.00
DL%UH,DMY77		30052.44	60		026510.40
D*%UH,DMY33	-1 IN POS 33	27776.45	A0		026511.00
CT0110%BU,48H,DMY27+.12,20		27770.14	80	060012.15 70	026511.40
SIC,SEN		1310.00	80		026512.40
	BRGZ,SERS	1304.35	42		026513.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026513.40
SIC,SEN		1310.00	80		026514.40
	BRGZ,SERS	1304.35	42		026515.00
DL%UH,DMY77		30052.44	60		026515.40
D*%UH,DMY34	-1 IN POS 34	27777.45	A0		026516.00
CT0110%BU,48H,DMY28+.12,20		27771.14	80	060012.15 70	026516.40
SIC,SEN		1310.00	80		026517.40
	BRGZ,SERS	1304.35	42		026520.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026520.40
SIC,SEN		1310.00	80		026521.40
	BRGZ,SERS	1304.35	42		026522.00
DL%UH,DMY77		30052.44	60		026522.40
D*%UH,DMY35	-1 IN POS 35	30000.45	A0		026523.00
CT0110%BU,48H,DMY29+.12,20		27772.14	80	060012.15 70	026523.40
SIC,SEN		1310.00	80		026524.40
	BRGZ,SERS	1304.35	42		026525.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	026525.40
SIC,SEN		1310.00	80		026526.40
	BRGZ,SERS	1304.35	42		026527.00
DL%UH,DMY77		30052.44	60		026527.40
D*%UH,DMY36	-1 IN POS 36	30001.45	A0		026530.00

CT0110%BU,48H,DMY30+.12,20	27773.14	80	060012.15	70	026530.40
SIC,SEN	1310.00	80			026531.40
BRGZ,SERS	1304.35	42			026532.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026532.40
SIC,SEN	1310.00	80			026533.40
BRGZ,SERS	1304.35	42			026534.00
DL%UH,DMY77	30052.44	60			026534.40
D*%UH,DMY37 -1 IN POS 37	30002.45	A0			026535.00
CT0110%BU,48H,DMY31+.12,20	27774.14	80	060012.15	70	026535.40
SIC,SEN	1310.00	80			026536.40
BRGZ,SERS	1304.35	42			026537.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026537.40
SIC,SEN	1310.00	80			026540.40
BRGZ,SERS	1304.35	42			026541.00
DL%UH,DMY77	30052.44	60			026541.40
D*%UH,DMY38 -1 IN POS 38	30003.45	A0			026542.00
CT0110%BU,48H,DMY32+.12,20	27775.14	80	060012.15	70	026542.40
SIC,SEN	1310.00	80			026543.40
BRGZ,SERS	1304.35	42			026544.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026544.40
SIC,SEN	1310.00	80			026545.40
BRGZ,SERS	1304.35	42			026546.00
DL%UH,DMY77	30052.44	60			026546.40
D*%UH,DMY39 -1 IN POS 39	30004.45	A0			026547.00
CT0110%BU,48H,DMY33+.12,20	27776.14	80	060012.15	70	026547.40
SIC,SEN	1310.00	80			026550.40
BRGZ,SERS	1304.35	42			026551.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026551.40
SIC,SEN	1310.00	80			026552.40
BRGZ,SERS	1304.35	42			026553.00
DL%UH,DMY77	30052.44	60			026553.40
D*%UH,DMY40 -1 IN POS 40	30005.45	A0			026554.00
CT0110%BU,48H,DMY34+.12,20	27777.14	80	060012.15	70	026554.40
SIC,SEN	1310.00	80			026555.40
BRGZ,SERS	1304.35	42			026556.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026556.40
SIC,SEN	1310.00	80			026557.40
BRGZ,SERS	1304.35	42			026560.00
DL%UH,DMY77	30052.44	60			026560.40
D*%UH,DMY41 -1 IN POS 41	30006.45	A0			026561.00
CT0110%BU,48H,DMY35+.12,20	30000.14	80	060012.15	70	026561.40
SIC,SEN	1310.00	80			026562.40
BRGZ,SERS	1304.35	42			026563.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026563.40
SIC,SEN	1310.00	80			026564.40
BRGZ,SERS	1304.35	42			026565.00
DL%UH,DMY77	30052.44	60			026565.40
D*%UH,DMY42 -1 IN POS 42	30007.45	A0			026566.00
CT0110%BU,48H,DMY36+.12,20	30001.14	80	060012.15	70	026566.40
SIC,SEN	1310.00	80			026567.40
BRGZ,SERS	1304.35	42			026570.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026570.40
SIC,SEN	1310.00	80			026571.40
BRGZ,SERS	1304.35	42			026572.00
DL%UH,DMY77	30052.44	60			026572.40
D*%UH,DMY43 -1 IN POS 43	30010.45	A0			026573.00
CT0110%BU,48H,DMY37+.12,20	30002.14	80	060012.15	70	026573.40
SIC,SEN	1310.00	80			026574.40
BRGZ,SERS	1304.35	42			026575.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	026575.40
SIC,SEN	1310.00	80			026576.40
BRGZ,SERS	1304.35	42			026577.00
DL%UH,DMY77	30052.44	60			026577.40
D*%UH,DMY44 -1 IN POS 44	30011.45	A0			026600.00
CT0110%BU,48H,DMY38+.12,20	30003.14	80	060012.15	70	026600.40
SIC,SEN	1310.00	80			026601.40

BRGZ,SERS	1304,35	42		026602,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026602,40
SIC,SEN	1310,00	80		026603,40
BRGZ,SERS	1304,35	42		026604,00
DL%UH,DMY77	30052,44	60		026604,40
D*%UH,DMY45 -1 IN POS 45	30012,45	A0		026605,00
CT0110%BU,48H,DMY39+,12,20	30004,14	80	060012,15 70	026605,40
SIC,SEN	1310,00	80		026606,40
BRGZ,SERS	1304,35	42		026607,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026607,40
SIC,SEN	1310,00	80		026610,40
BRGZ,SERS	1304,35	42		026611,00
DL%UH,DMY77	30052,44	60		026611,40
D*%UH,DMY46 -1 IN POS 46	30013,45	A0		026612,00
CT0110%BU,48H,DMY40+,12,20	30005,14	80	060012,15 70	026612,40
SIC,SEN	1310,00	80		026613,40
BRGZ,SERS	1304,35	42		026614,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026614,40
SIC,SEN	1310,00	80		026615,40
BRGZ,SERS	1304,35	42		026616,00
DL%UH,DMY77	30052,44	60		026616,40
D*%UH,DMY47 -1 IN POS 47	30014,45	A0		026617,00
CT0110%BU,48H,DMY41+,12,20	30006,14	80	060012,15 70	026617,40
SIC,SEN	1310,00	80		026620,40
BRGZ,SERS	1304,35	42		026621,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026621,40
SIC,SEN	1310,00	80		026622,40
BRGZ,SERS	1304,35	42		026623,00
DL%UH,DMY77	30052,44	60		026623,40
D*%UH,DMY48 -1 IN POS 48	30015,45	A0		026624,00
CT0110%BU,48H,DMY42+,12,20	30007,14	80	060012,15 70	026624,40
SIC,SEN	1310,00	80		026625,40
BRGZ,SERS	1304,35	42		026626,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026626,40
SIC,SEN	1310,00	80		026627,40
BRGZ,SERS	1304,35	42		026630,00
DL%UH,DMY77	30052,44	60		026630,40
D*%UH,DMY49 -1 IN POS 49	30016,45	A0		026631,00
CT0110%BU,48H,DMY43+,12,20	30010,14	80	060012,15 70	026631,40
SIC,SEN	1310,00	80		026632,40
BRGZ,SERS	1304,35	42		026633,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026633,40
SIC,SEN	1310,00	80		026634,40
BRGZ,SERS	1304,35	42		026635,00
DL%UH,DMY77	30052,44	60		026635,40
D*%UH,DMY50 -1 IN POS 50	30017,45	A0		026636,00
CT0110%BU,48H,DMY44+,12,20	30011,14	80	060012,15 70	026636,40
SIC,SEN	1310,00	80		026637,40
BRGZ,SERS	1304,35	42		026640,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026640,40
SIC,SEN	1310,00	80		026641,40
BRGZ,SERS	1304,35	42		026642,00
DL%UH,DMY77	30052,44	60		026642,40
D*%UH,DMY51 -1 IN POS 51	30020,45	A0		026643,00
CT0110%BU,48H,DMY45+,12,20	30012,14	80	060012,15 70	026643,40
SIC,SEN	1310,00	80		026644,40
BRGZ,SERS	1304,35	42		026645,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026645,40
SIC,SEN	1310,00	80		026646,40
BRGZ,SERS	1304,35	42		026647,00
DL%UH,DMY77	30052,44	60		026647,40
D*%UH,DMY52 -1 IN POS 52	30021,45	A0		026650,00
CT0110%BU,48H,DMY46+,12,20	30013,14	80	060012,15 70	026650,40
SIC,SEN	1310,00	80		026651,40
BRGZ,SERS	1304,35	42		026652,00
CT0110%BU,60H,DMY122,68	30126,00	80	074042,15 70	026652,40

SIC,SEN		1310.00	80	026653.40
BRGZ,SERS		1304.35	42	026654.00
DL%UH,DMY77		30052.44	60	026654.40
D*%UH,DMY53	-1 IN POS 53	30022.45	A0	026655.00
CT0110%BU,48H,DMY47+.12,20		30014.14	80 060012.15 70	026655.40
SIC,SEN		1310.00	80	026656.40
BRGZ,SERS		1304.35	42	026657.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026657.40
SIC,SEN		1310.00	80	026660.40
BRGZ,SERS		1304.35	42	026661.00
DL%UH,DMY77		30052.44	60	026661.40
D*%UH,DMY54	-1 IN POS 54	30023.45	A0	026662.00
CT0110%BU,48H,DMY48+.12,20		30015.14	80 060012.15 70	026662.40
SIC,SEN		1310.00	80	026663.40
BRGZ,SERS		1304.35	42	026664.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026664.40
SIC,SEN		1310.00	80	026665.40
BRGZ,SERS		1304.35	42	026666.00
DL%UH,DMY77		30052.44	60	026666.40
D*%UH,DMY55	-1 IN POS 55	30024.45	A0	026667.00
CT0110%BU,48H,DMY49+.12,20		30016.14	80 060012.15 70	026667.40
SIC,SEN		1310.00	80	026670.40
BRGZ,SERS		1304.35	42	026671.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026671.40
SIC,SEN		1310.00	80	026672.40
BRGZ,SERS		1304.35	42	026673.00
DL%UH,DMY77		30052.44	60	026673.40
D*%UH,DMY56	-1 IN POS 56	30025.45	A0	026674.00
CT0110%BU,48H,DMY50+.12,20		30017.14	80 060012.15 70	026674.40
SIC,SEN		1310.00	80	026675.40
BRGZ,SERS		1304.35	42	026676.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026676.40
SIC,SEN		1310.00	80	026677.40
BRGZ,SERS		1304.35	42	026700.00
DL%UH,DMY77		30052.44	60	026700.40
D*%UH,DMY57	-1 IN POS 57	30026.45	A0	026701.00
CT0110%BU,48H,DMY51+.12,20		30020.14	80 060012.15 70	026701.40
SIC,SEN		1310.00	80	026702.40
BRGZ,SERS		1304.35	42	026703.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026703.40
SIC,SEN		1310.00	80	026704.40
BRGZ,SERS		1304.35	42	026705.00
DL%UH,DMY77		30052.44	60	026705.40
D*%UH,DMY58	-1 IN POS 58	30027.45	A0	026706.00
CT0110%BU,48H,DMY52+.12,20		30021.14	80 060012.15 70	026706.40
SIC,SEN		1310.00	80	026707.40
BRGZ,SERS		1304.35	42	026710.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026710.40
SIC,SEN		1310.00	80	026711.40
BRGZ,SERS		1304.35	42	026712.00
DL%UH,DMY77		30052.44	60	026712.40
D*%UH,DMY59	-1 IN POS 59	30030.45	A0	026713.00
CT0110%BU,48H,DMY53+.12,20		30022.14	80 060012.15 70	026713.40
SIC,SEN		1310.00	80	026714.40
BRGZ,SERS		1304.35	42	026715.00
CT0110%BU,60H,DMY122,68		30126.00	80 074042.15 70	026715.40
SIC,SEN		1310.00	80	026716.40
BRGZ,SERS		1304.35	42	026717.00
B,\$+1.		26720.50	00	026717.40
B,MP301B		26337.50	00	026720.00
SIC,SEN0+.32		1311.40	80	026720.40
B,SSW		1301.10	00	026721.00

MP301C	DL%U□,DMY78		30053.44	60		026721.40
	D*%U□,DMY12	-1 IN POS 12	27751.45	A0		026722.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026722.40
	SIC,SEN		1310.00	80		026723.40
	BRGZ,SERS		1304.35	42		026724.00
	CT0110%BU,60□,DMY51,68		30020.00	80	074042.15 70	026724.40
	SIC,SEN		1310.00	80		026725.40
	BRGZ,SERS		1304.35	42		026726.00
	DL%U□,DMY78		30053.44	60		026726.40
	D*%U□,DMY13	-1 IN POS 13	27752.45	A0		026727.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026727.40
	SIC,SEN		1310.00	80		026730.40
	BRGZ,SERS		1304.35	42		026731.00
	CT0110%BU,60□,DMY52,68		30021.00	80	074042.15 70	026731.40
	SIC,SEN		1310.00	80		026732.40
	BRGZ,SERS		1304.35	42		026733.00
	DL%U□,DMY78		30053.44	60		026733.40
	D*%U□,DMY14	-1 IN POS 14	27753.45	A0		026734.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026734.40
	SIC,SEN		1310.00	80		026735.40
	BRGZ,SERS		1304.35	42		026736.00
	CT0110%BU,60□,DMY53,68		30022.00	80	074042.15 70	026736.40
	SIC,SEN		1310.00	80		026737.40
	BRGZ,SERS		1304.35	42		026740.00
	DL%U□,DMY78		30053.44	60		026740.40
	D*%U□,DMY15	-1 IN POS 15	27754.45	A0		026741.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026741.40
	SIC,SEN		1310.00	80		026742.40
	BRGZ,SERS		1304.35	42		026743.00
	CT0110%BU,60□,DMY54,68		30023.00	80	074042.15 70	026743.40
	SIC,SEN		1310.00	80		026744.40
	BRGZ,SERS		1304.35	42		026745.00
	DL%U□,DMY78		30053.44	60		026745.40
	D*%U□,DMY16	-1 IN POS 16	27755.45	A0		026746.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026746.40
	SIC,SEN		1310.00	80		026747.40
	BRGZ,SERS		1304.35	42		026750.00
	CT0110%BU,60□,DMY55,68		30024.00	80	074042.15 70	026750.40
	SIC,SEN		1310.00	80		026751.40
	BRGZ,SERS		1304.35	42		026752.00
	DL%U□,DMY78		30053.44	60		026752.40
	D*%U□,DMY17	-1 IN POS 17	27756.45	A0		026753.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026753.40
	SIC,SEN		1310.00	80		026754.40
	BRGZ,SERS		1304.35	42		026755.00
	CT0110%BU,60□,DMY56,68		30025.00	80	074042.15 70	026755.40
	SIC,SEN		1310.00	80		026756.40
	BRGZ,SERS		1304.35	42		026757.00
	DL%U□,DMY78		30053.44	60		026757.40
	D*%U□,DMY18	-1 IN POS 18	27757.45	A0		026760.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026760.40
	SIC,SEN		1310.00	80		026761.40
	BRGZ,SERS		1304.35	42		026762.00
	CT0110%BU,60□,DMY57,68		30026.00	80	074042.15 70	026762.40
	SIC,SEN		1310.00	80		026763.40
	BRGZ,SERS		1304.35	42		026764.00 ←
	DL%U□,DMY78		30053.44	60		026764.40
	D*%U□,DMY19	-1 IN POS 19	27760.45	A0		026765.00
	CT0110%BU,48□,DMY122,20		30126.00	80	060012.15 70	026765.40
	SIC,SEN		1310.00	80		026766.40
	BRGZ,SERS		1304.35	42		026767.00
	CT0110%BU,60□,DMY58,68		30027.00	80	074042.15 70	026767.40
	SIC,SEN		1310.00	80		026770.40

DL%UH,DMY78	1304.35 42	026771.00
D*%UH,DMY20 -1 IN POS 20	30053.44 60	026771.40
CT0110%BU,48H,DMY122,20	27761.45 A0	026772.00
SIC,SEN	30126.00 80 060012.15 70	026772.40
BRGZ,SERS	1310.00 80	026773.40
CT0110%BU,60H,DMY59,68	1304.35 42	026774.00
SIC,SEN	30030.00 80 074042.15 70	026774.40
BRGZ,SERS	1310.00 80	026775.40
DL%UH,DMY78	1304.35 42	026776.00
D*%UH,DMY21 -1 IN POS 21	30053.44 60	026776.40
CT0110%BU,48H,DMY12+.12,20	27762.45 A0	026777.00
SIC,SEN	27751.14 80 060012.15 70	026777.40
BRGZ,SERS	1310.00 80	027000.40
CT0110%BU,60H,DMY122,68	1304.35 42	027001.00
SIC,SEN	30126.00 80 074042.15 70	027001.40
BRGZ,SERS	1310.00 80	027002.40
DL%UH,DMY78	1304.35 42	027003.00
D*%UH,DMY22 -1 IN POS 22	30053.44 60	027003.40
CT0110%BU,48H,DMY13+.12,20	27763.45 A0	027004.00
SIC,SEN	27752.14 80 060012.15 70	027004.40
BRGZ,SERS	1310.00 80	027005.40
CT0110%BU,60H,DMY122,68	1304.35 42	027006.00
SIC,SEN	30126.00 80 074042.15 70	027006.40
BRGZ,SERS	1310.00 80	027007.40
DL%UH,DMY78	1304.35 42	027010.00
D*%UH,DMY23 -1 IN POS 23	30053.44 60	027010.40
CT0110%BU,48H,DMY14+.12,20	27764.45 A0	027011.00
SIC,SEN	27753.14 80 060012.15 70	027011.40
BRGZ,SERS	1310.00 80	027012.40
CT0110%BU,60H,DMY122,68	1304.35 42	027013.00
SIC,SEN	30126.00 80 074042.15 70	027013.40
BRGZ,SERS	1310.00 80	027014.40
DL%UH,DMY78	1304.35 42	027015.00
D*%UH,DMY24 -1 IN POS 24	30053.44 60	027015.40
CT0110%BU,48H,DMY15+.12,20	27765.45 A0	027016.00
SIC,SEN	27754.14 80 060012.15 70	027016.40
BRGZ,SERS	1310.00 80	027017.40
CT0110%BU,60H,DMY122,68	1304.35 42	027020.00
SIC,SEN	30126.00 80 074042.15 70	027020.40
BRGZ,SERS	1310.00 80	027021.40
DL%UH,DMY78	1304.35 42	027022.00
D*%UH,DMY25 -1 IN POS 25	30053.44 60	027022.40
CT0110%BU,48H,DMY16+.12,20	27766.45 A0	027023.00
SIC,SEN	27755.14 80 060012.15 70	027023.40
BRGZ,SERS	1310.00 80	027024.40
CT0110%BU,60H,DMY122,68	1304.35 42	027025.00
SIC,SEN	30126.00 80 074042.15 70	027025.40
BRGZ,SERS	1310.00 80	027026.40
DL%UH,DMY78	1304.35 42	027027.00
D*%UH,DMY26 -1 IN POS 26	30053.44 60	027027.40
CT0110%BU,48H,DMY17+.12,20	27767.45 A0	027030.00
SIC,SEN	27756.14 80 060012.15 70	027030.40
BRGZ,SERS	1310.00 80	027031.40
CT0110%BU,60H,DMY122,68	1304.35 42	027032.00
SIC,SEN	30126.00 80 074042.15 70	027032.40
BRGZ,SERS	1310.00 80	027033.40
DL%UH,DMY78	1304.35 42	027034.00
D*%UH,DMY27 -1 IN POS 27	30053.44 60	027034.40
CT0110%BU,48H,DMY18+.12,20	27770.45 A0	027035.00
SIC,SEN	27757.14 80 060012.15 70	027035.40
BRGZ,SERS	1310.00 80	027036.40
CT0110%BU,60H,DMY122,68	1304.35 42	027037.00
SIC,SEN	30126.00 80 074042.15 70	027037.40
BRGZ,SERS	1310.00 80	027040.40
DL%UH,DMY78	1304.35 42	027041.00
	30053.44 60	027041.40

D*%UH,DMY28	-1 IN POS 28	27771.45	A0		027042.00
CT0110%BU,48H,DMY19+.12,20		27760.14	80	060012.15 70	027042.40
SIC,SEN		1310.00	80		027043.40
	BRGZ,SERS	1304.35	42		027044.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027044.40
SIC,SEN		1310.00	80		027045.40
	BRGZ,SERS	1304.35	42		027046.00
DL%UH,DMY78		30053.44	60		027046.40
D*%UH,DMY29	-1 IN POS 29	27772.45	A0		027047.00
CT0110%BU,48H,DMY20+.12,20		27761.14	80	060012.15 70	027047.40
SIC,SEN		1310.00	80		027050.40
	BRGZ,SERS	1304.35	42		027051.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027051.40
SIC,SEN		1310.00	80		027052.40
	BRGZ,SERS	1304.35	42		027053.00
DL%UH,DMY78		30053.44	60		027053.40
D*%UH,DMY30	-1 IN POS 30	27773.45	A0		027054.00
CT0110%BU,48H,DMY21+.12,20		27762.14	80	060012.15 70	027054.40
SIC,SEN		1310.00	80		027055.40
	BRGZ,SERS	1304.35	42		027056.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027056.40
SIC,SEN		1310.00	80		027057.40
	BRGZ,SERS	1304.35	42		027060.00
DL%UH,DMY78		30053.44	60		027060.40
D*%UH,DMY31	-1 IN POS 31	27774.45	A0		027061.00
CT0110%BU,48H,DMY22+.12,20		27763.14	80	060012.15 70	027061.40
SIC,SEN		1310.00	80		027062.40
	BRGZ,SERS	1304.35	42		027063.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027063.40
SIC,SEN		1310.00	80		027064.40
	BRGZ,SERS	1304.35	42		027065.00
DL%UH,DMY78		30053.44	60		027065.40
D*%UH,DMY32	-1 IN POS 32	27775.45	A0		027066.00
CT0110%BU,48H,DMY23+.12,20		27764.14	80	060012.15 70	027066.40
SIC,SEN		1310.00	80		027067.40
	BRGZ,SERS	1304.35	42		027070.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027070.40
SIC,SEN		1310.00	80		027071.40
	BRGZ,SERS	1304.35	42		027072.00
DL%UH,DMY78		30053.44	60		027072.40
D*%UH,DMY33	-1 IN POS 33	27776.45	A0		027073.00
CT0110%BU,48H,DMY24+.12,20		27765.14	80	060012.15 70	027073.40
SIC,SEN		1310.00	80		027074.40
	BRGZ,SERS	1304.35	42		027075.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027075.40
SIC,SEN		1310.00	80		027076.40
	BRGZ,SERS	1304.35	42		027077.00
DL%UH,DMY78		30053.44	60		027077.40
D*%UH,DMY34	-1 IN POS 34	27777.45	A0		027100.00
CT0110%BU,48H,DMY25+.12,20		27766.14	80	060012.15 70	027100.40
SIC,SEN		1310.00	80		027101.40
	BRGZ,SERS	1304.35	42		027102.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027102.40
SIC,SEN		1310.00	80		027103.40
	BRGZ,SERS	1304.35	42		027104.00
DL%UH,DMY78		30053.44	60		027104.40
D*%UH,DMY35	-1 IN POS 35	30000.45	A0		027105.00
CT0110%BU,48H,DMY26+.12,20		27767.14	80	060012.15 70	027105.40
SIC,SEN		1310.00	80		027106.40
	BRGZ,SERS	1304.35	42		027107.00
CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027107.40
SIC,SEN		1310.00	80		027110.40
	BRGZ,SERS	1304.35	42		027111.00
DL%UH,DMY78		30053.44	60		027111.40
D*%UH,DMY36	-1 IN POS 36	30001.45	A0		027112.00
CT0110%BU,48H,DMY27+.12,20		27770.14	80	060012.15 70	027112.40

SIC,SEN		1310.00	80		027113.40
	BRGZ,SERS	1304.35	42		027114.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027114.40
SIC,SEN		1310.00	80		027115.40
	BRGZ,SERS	1304.35	42		027116.00
DL%U□,DMY78		30053.44	60		027116.40
D*%U□,DMY37	-1 IN POS 37	30002.45	A0		027117.00
CT0110%BU,48□,DMY28+.12,20		27771.14	80	060012.15 70	027117.40
SIC,SEN		1310.00	80		027120.40
	BRGZ,SERS	1304.35	42		027121.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027121.40
SIC,SEN		1310.00	80		027122.40
	BRGZ,SERS	1304.35	42		027123.00
DL%U□,DMY78		30053.44	60		027123.40
D*%U□,DMY38	-1 IN POS 38	30003.45	A0		027124.00
CT0110%BU,48□,DMY29+.12,20		27772.14	80	060012.15 70	027124.40
SIC,SEN		1310.00	80		027125.40
	BRGZ,SERS	1304.35	42		027126.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027126.40
SIC,SEN		1310.00	80		027127.40
	BRGZ,SERS	1304.35	42		027130.00
DL%U□,DMY78		30053.44	60		027130.40
D*%U□,DMY39	-1 IN POS 39	30004.45	A0		027131.00
CT0110%BU,48□,DMY30+.12,20		27773.14	80	060012.15 70	027131.40
SIC,SEN		1310.00	80		027132.40
	BRGZ,SERS	1304.35	42		027133.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027133.40
SIC,SEN		1310.00	80		027134.40
	BRGZ,SERS	1304.35	42		027135.00
DL%U□,DMY78		30053.44	60		027135.40
D*%U□,DMY40	-1 IN POS 40	30005.45	A0		027136.00
CT0110%BU,48□,DMY31+.12,20		27774.14	80	060012.15 70	027136.40
SIC,SEN		1310.00	80		027137.40
	BRGZ,SERS	1304.35	42		027140.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027140.40
SIC,SEN		1310.00	80		027141.40
	BRGZ,SERS	1304.35	42		027142.00
DL%U□,DMY78		30053.44	60		027142.40
D*%U□,DMY41	-1 IN POS 41	30006.45	A0		027143.00
CT0110%BU,48□,DMY32+.12,20		27775.14	80	060012.15 70	027143.40
SIC,SEN		1310.00	80		027144.40
	BRGZ,SERS	1304.35	42		027145.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027145.40
SIC,SEN		1310.00	80		027146.40
	BRGZ,SERS	1304.35	42		027147.00
DL%U□,DMY78		30053.44	60		027147.40
D*%U□,DMY42	-1 IN POS 42	30007.45	A0		027150.00
CT0110%BU,48□,DMY33+.12,20		27776.14	80	060012.15 70	027150.40
SIC,SEN		1310.00	80		027151.40
	BRGZ,SERS	1304.35	42		027152.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027152.40
SIC,SEN		1310.00	80		027153.40
	BRGZ,SERS	1304.35	42		027154.00
DL%U□,DMY78		30053.44	60		027154.40
D*%U□,DMY43	-1 IN POS 43	30010.45	A0		027155.00
CT0110%BU,48□,DMY34+.12,20		27777.14	80	060012.15 70	027155.40
SIC,SEN		1310.00	80		027156.40
	BRGZ,SERS	1304.35	42		027157.00
CT0110%BU,60□,DMY122,68		30126.00	80	074042.15 70	027157.40
SIC,SEN		1310.00	80		027160.40
	BRGZ,SERS	1304.35	42		027161.00
DL%U□,DMY78		30053.44	60		027161.40
D*%U□,DMY44	-1 IN POS 44	30011.45	A0		027162.00
CT0110%BU,48□,DMY35+.12,20		30000.14	80	060012.15 70	027162.40
SIC,SEN		1310.00	80		027163.40
	BRGZ,SERS	1304.35	42		027164.00

CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027164.40
SIC,SEN	1310.00	80			027165.40
BRGZ,SERS	1304.35	42			027166.00
DL%UH,DMY78	30053.44	60			027166.40
D*%UH,DMY45 -1 IN POS 45	30012.45	A0			027167.00
CT0110%BU,48H,DMY36+.12,20	30001.14	80	060012.15	70	027167.40
SIC,SEN	1310.00	80			027170.40
BRGZ,SERS	1304.35	42			027171.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027171.40
SIC,SEN	1310.00	80			027172.40
BRGZ,SERS	1304.35	42			027173.00
DL%UH,DMY78	30053.44	60			027173.40
D*%UH,DMY46 -1 IN POS 46	30013.45	A0			027174.00
CT0110%BU,48H,DMY37+.12,20	30002.14	80	060012.15	70	027174.40
SIC,SEN	1310.00	80			027175.40
BRGZ,SERS	1304.35	42			027176.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027176.40
SIC,SEN	1310.00	80			027177.40
BRGZ,SERS	1304.35	42			027200.00
DL%UH,DMY78	30053.44	60			027200.40
D*%UH,DMY47 -1 IN POS 47	30014.45	A0			027201.00
CT0110%BU,48H,DMY38+.12,20	30003.14	80	060012.15	70	027201.40
SIC,SEN	1310.00	80			027202.40
BRGZ,SERS	1304.35	42			027203.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027203.40
SIC,SEN	1310.00	80			027204.40
BRGZ,SERS	1304.35	42			027205.00
DL%UH,DMY78	30053.44	60			027205.40
D*%UH,DMY48 -1 IN POS 48	30015.45	A0			027206.00
CT0110%BU,48H,DMY39+.12,20	30004.14	80	060012.15	70	027206.40
SIC,SEN	1310.00	80			027207.40
BRGZ,SERS	1304.35	42			027210.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027210.40
SIC,SEN	1310.00	80			027211.40
BRGZ,SERS	1304.35	42			027212.00
DL%UH,DMY78	30053.44	60			027212.40
D*%UH,DMY49 -1 IN POS 49	30016.45	A0			027213.00
CT0110%BU,48H,DMY40+.12,20	30005.14	80	060012.15	70	027213.40
SIC,SEN	1310.00	80			027214.40
BRGZ,SERS	1304.35	42			027215.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027215.40
SIC,SEN	1310.00	80			027216.40
BRGZ,SERS	1304.35	42			027217.00
DL%UH,DMY78	30053.44	60			027217.40
D*%UH,DMY50 -1 IN POS 50	30017.45	A0			027220.00
CT0110%BU,48H,DMY41+.12,20	30006.14	80	060012.15	70	027220.40
SIC,SEN	1310.00	80			027221.40
BRGZ,SERS	1304.35	42			027222.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027222.40
SIC,SEN	1310.00	80			027223.40
BRGZ,SERS	1304.35	42			027224.00
DL%UH,DMY78	30053.44	60			027224.40
D*%UH,DMY51 -1 IN POS 51	30020.45	A0			027225.00
CT0110%BU,48H,DMY42+.12,20	30007.14	80	060012.15	70	027225.40
SIC,SEN	1310.00	80			027226.40
BRGZ,SERS	1304.35	42			027227.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027227.40
SIC,SEN	1310.00	80			027230.40
BRGZ,SERS	1304.35	42			027231.00
DL%UH,DMY78	30053.44	60			027231.40
D*%UH,DMY52 -1 IN POS 52	30021.45	A0			027232.00
CT0110%BU,48H,DMY43+.12,20	30010.14	80	060012.15	70	027232.40
SIC,SEN	1310.00	80			027233.40
BRGZ,SERS	1304.35	42			027234.00
CT0110%BU,60H,DMY122,68	30126.00	80	074042.15	70	027234.40
SIC,SEN	1310.00	80			027235.40

BRGZ,SERS	1304.35 42	027236.00
DL%UH,DMY78	30053.44 60	027236.40
D*%UH,DMY53 -1 IN POS 53	30022.45 A0	027237.00
CT0110%BU,48H,DMY44+.12,20	30011.14 80 060012.15 70	027237.40
SIC,SEN	1310.00 80	027240.40
BRGZ,SERS	1304.35 42	027241.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027241.40
SIC,SEN	1310.00 80	027242.40
BRGZ,SERS	1304.35 42	027243.00
DL%UH,DMY78	30053.44 60	027243.40
D*%UH,DMY54 -1 IN POS 54	30023.45 A0	027244.00
CT0110%BU,48H,DMY45+.12,20	30012.14 80 060012.15 70	027244.40
SIC,SEN	1310.00 80	027245.40
BRGZ,SERS	1304.35 42	027246.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027246.40
SIC,SEN	1310.00 80	027247.40
BRGZ,SERS	1304.35 42	027250.00
DL%UH,DMY78	30053.44 60	027250.40
D*%UH,DMY55 -1 IN POS 55	30024.45 A0	027251.00
CT0110%BU,48H,DMY46+.12,20	30013.14 80 060012.15 70	027251.40
SIC,SEN	1310.00 80	027252.40
BRGZ,SERS	1304.35 42	027253.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027253.40
SIC,SEN	1310.00 80	027254.40
BRGZ,SERS	1304.35 42	027255.00
DL%UH,DMY78	30053.44 60	027255.40
D*%UH,DMY56 -1 IN POS 56	30025.45 A0	027256.00
CT0110%BU,48H,DMY47+.12,20	30014.14 80 060012.15 70	027256.40
SIC,SEN	1310.00 80	027257.40
BRGZ,SERS	1304.35 42	027260.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027260.40
SIC,SEN	1310.00 80	027261.40
BRGZ,SERS	1304.35 42	027262.00
DL%UH,DMY78	30053.44 60	027262.40
D*%UH,DMY57 -1 IN POS 57	30026.45 A0	027263.00
CT0110%BU,48H,DMY48+.12,20	30015.14 80 060012.15 70	027263.40
SIC,SEN	1310.00 80	027264.40
BRGZ,SERS	1304.35 42	027265.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027265.40
DL%UH,DMY78	30053.44 60	027266.40
D*%UH,DMY58 -1 IN POS 58	30027.45 A0	027267.00
CT0110%BU,48H,DMY49+.12,20	30016.14 80 060012.15 70	027267.40
SIC,SEN	1310.00 80	027270.40
BRGZ,SERS	1304.35 42	027271.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027271.40
SIC,SEN	1310.00 80	027272.40
BRGZ,SERS	1304.35 42	027273.00
DL%UH,DMY78	30053.44 60	027273.40
D*%UH,DMY59 -1 IN POS 59	30030.45 A0	027274.00
CT0110%BU,48H,DMY50+.12,20	30017.14 80 060012.15 70	027274.40
SIC,SEN	1310.00 80	027275.40
BRGZ,SERS	1304.35 42	027276.00
CT0110%BU,60H,DMY122,68	30126.00 80 074042.15 70	027276.40
SIC,SEN	1310.00 80	027277.40
BRGZ,SERS	1304.35 42	027300.00
B,S+1.	27301.50 00	027300.40
B,MP301C	26721.50 00	027301.00
SIC,SEN0+.32	1311.40 80	027301.40
B,SSW	1301.10 00	027302.00

-MULTIPLIER DECODING

-THE SIXTEEN TESTS MP333 THROUGH MP348 CHECK THE
 -DO THE SAME THING FOR THE SECOND MULTIPLIER DIGIT.
 -SIXTEEN POSSIBLE COMBINATIONS OF THE LOW ORDER OCTAL
 -DIGIT AND THE NEXT HIGHER ORDER DIGIT OF A 12 BIT
 -MULTIPLIER GROUP. TESTS MP349 THROUGH MP362
 -MP363 THROUGH MP376 DO THE SAME FOR THE THIRD, AND
 -MP377 THROUGH MP390 DO THE SAME FOR THE FOURTH./

MP333	DL%UH,DMY60	-LOW ORDER MULTIPLIER DIGIT 0000	30031.44	60		027302.40
	D*%UH,DMY61		30032.45	A0		027303.00
	CT0110%BU,48H,DMY60+.12,20		30031.14	80	060012.15 70	027303.40
	SIC,SEN		1310.00	80		027304.40
	BRGZ,SERS		1304.35	42		027305.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027305.40
	SIC,SEN		1310.00	80		027306.40
	BRGZ,SERS		1304.35	42		027307.00
MP334	DL%UH,DMY61	-LOW ORDER MULTIPLIER DIGIT 0001	30032.44	60		027307.40
	D*%UH,DMY61		30032.45	A0		027310.00
	CT0110%BU,48H,DMY61+.12,20		30032.14	80	060012.15 70	027310.40
	SIC,SEN		1310.00	80		027311.40
	BRGZ,SERS		1304.35	42		027312.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027312.40
	SIC,SEN		1310.00	80		027313.40
	BRGZ,SERS		1304.35	42		027314.00
MP335	DL%UH,DMY62	-LOW ORDER MULTIPLIER DIGIT 0010	30033.44	60		027314.40
	D*%UH,DMY61		30032.45	A0		027315.00
	CT0110%BU,48H,DMY62+.12,20		30033.14	80	060012.15 70	027315.40
	SIC,SEN		1310.00	80		027316.40
	BRGZ,SERS		1304.35	42		027317.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027317.40
	SIC,SEN		1310.00	80		027320.40
	BRGZ,SERS		1304.35	42		027321.00
MP336	DL%UH,DMY63	-LOW ORDER MULTIPLIER DIGIT 0011	30034.44	60		027321.40
	D*%UH,DMY61		30032.45	A0		027322.00
	CT0110%BU,48H,DMY63+.12,20		30034.14	80	060012.15 70	027322.40
	SIC,SEN		1310.00	80		027323.40
	BRGZ,SERS		1304.35	42		027324.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027324.40
	SIC,SEN		1310.00	80		027325.40
	BRGZ,SERS		1304.35	42		027326.00
MP337	DL%UH,DMY64	-LOW ORDER MULTIPLIER DIGIT 0100	30035.44	60		027326.40
	D*%UH,DMY61		30032.45	A0		027327.00
	CT0110%BU,48H,DMY64+.12,20		30035.14	80	060012.15 70	027327.40
	SIC,SEN		1310.00	80		027330.40
	BRGZ,SERS		1304.35	42		027331.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027331.40
	SIC,SEN		1310.00	80		027332.40
	BRGZ,SERS		1304.35	42		027333.00
MP338	DL%UH,DMY65	-LOW ORDER MULTIPLIER DIGIT 0101	30036.44	60		027333.40
	D*%UH,DMY61		30032.45	A0		027334.00
	CT0110%BU,48H,DMY65+.12,20		30036.14	80	060012.15 70	027334.40
	SIC,SEN		1310.00	80		027335.40
	BRGZ,SERS		1304.35	42		027336.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15 70	027336.40
	SIC,SEN		1310.00	80		027337.40
	BRGZ,SERS		1304.35	42		027340.00
MP339	DL%UH,DMY66	-LOW ORDER MULTIPLIER DIGIT 0110	30037.44	60		027340.40
	D*%UH,DMY61		30032.45	A0		027341.00
	CT0110%BU,48H,DMY66+.12,20		30037.14	80	060012.15 70	027341.40
	SIC,SEN		1310.00	80		027342.40
	BRGZ,SERS		1304.35	42		027343.00

	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027343.40
	SIC,SEN		1310.00	80			027344.40
	BRGZ,SERS		1304.35	42			027345.00
MP340	DL%UH,DMY67	-LOW ORDER MULTIPLIER DIGIT 0111	30040.44	60			027345.40
	D*%UH,DMY61		30032.45	A0			027346.00
	CT0110%BU,48H,DMY67+.12,20		30040.14	80	060012.15	70	027346.40
	SIC,SEN		1310.00	80			027347.40
	BRGZ,SERS		1304.35	42			027350.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027350.40
	SIC,SEN		1310.00	80			027351.40
	BRGZ,SERS		1304.35	42			027352.00
MP341	DL%UH,DMY68	-LOW ORDER MULTIPLIER DIGIT 1000	30041.44	60			027352.40
	D*%UH,DMY61		30032.45	A0			027353.00
	CT0110%BU,48H,DMY68+.12,20		30041.14	80	060012.15	70	027353.40
	SIC,SEN		1310.00	80			027354.40
	BRGZ,SERS		1304.35	42			027355.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027355.40
	SIC,SEN		1310.00	80			027356.40
	BRGZ,SERS		1304.35	42			027357.00
MP342	DL%UH,DMY69	-LOW ORDER MULTIPLIER DIGIT 1001	30042.44	60			027357.40
	D*%UH,DMY61		30032.45	A0			027360.00
	CT0110%BU,48H,DMY69+.12,20		30042.14	80	060012.15	70	027360.40
	SIC,SEN		1310.00	80			027361.40
	BRGZ,SERS		1304.35	42			027362.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027362.40
	SIC,SEN		1310.00	80			027363.40
	BRGZ,SERS		1304.35	42			027364.00
MP343	DL%UH,DMY70	-LOW ORDER MULTIPLIER DIGIT 1010	30043.44	60			027364.40
	D*%UH,DMY61		30032.45	A0			027365.00
	CT0110%BU,48H,DMY70+.12,20		30043.14	80	060012.15	70	027365.40
	SIC,SEN		1310.00	80			027366.40
	BRGZ,SERS		1304.35	42			027367.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027367.40
	SIC,SEN		1310.00	80			027370.40
	BRGZ,SERS		1304.35	42			027371.00
MP344	DL%UH,DMY71	-LOW ORDER MULTIPLIER DIGIT 1011	30044.44	60			027371.40
	D*%UH,DMY61		30032.45	A0			027372.00
	CT0110%BU,48H,DMY71+.12,20		30044.14	80	060012.15	70	027372.40
	SIC,SEN		1310.00	80			027373.40
	BRGZ,SERS		1304.35	42			027374.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027374.40
	SIC,SEN		1310.00	80			027375.40
	BRGZ,SERS		1304.35	42			027376.00
MP345	DL%UH,DMY72	-LOW ORDER MULTIPLIER DIGIT 1100	30045.44	60			027376.40
	D*%UH,DMY61		30032.45	A0			027377.00
	CT0110%BU,48H,DMY72+.12,20		30045.14	80	060012.15	70	027377.40
	SIC,SEN		1310.00	80			027400.40
	BRGZ,SERS		1304.35	42			027401.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027401.40
	SIC,SEN		1310.00	80			027402.40
	BRGZ,SERS		1304.35	42			027403.00
MP346	DL%UH,DMY73	-LOW ORDER MULTIPLIER DIGIT 1101	30046.44	60			027403.40
	D*%UH,DMY61		30032.45	A0			027404.00
	CT0110%BU,48H,DMY73+.12,20		30046.14	80	060012.15	70	027404.40
	SIC,SEN		1310.00	80			027405.40
	BRGZ,SERS		1304.35	42			027406.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027406.40
	SIC,SEN		1310.00	80			027407.40
	BRGZ,SERS		1304.35	42			027410.00
MP347	DL%UH,DMY74	-LOW ORDER MULTIPLIER DIGIT 1110	30047.44	60			027410.40
	D*%UH,DMY61		30032.45	A0			027411.00
	CT0110%BU,48H,DMY74+.12,20		30047.14	80	060012.15	70	027411.40
	SIC,SEN		1310.00	80			027412.40
	BRGZ,SERS		1304.35	42			027413.00
	CT0110%BU,60H,DMY122,68		30126.00	80	074042.15	70	027413.40
	SIC,SEN		1310.00	80			027414.40

		BRGZ,SERS		1304.35	42		027415.00
MP348	DL%U□,DMY75	-LOW ORDER MULTIPLIER DIGIT 1111		30050.44	60		027415.40
	D*%U□,DMY61			30032.45	A0		027416.00
	CT0110%BU,48□,DMY75+.12,20			30050.14	80	060012.15 70	027416.40
	SIC,SEN			1310.00	80		027417.40
		BRGZ,SERS		1304.35	42		027420.00
	CT0110%BU,60□,DMY122,68			30126.00	80	074042.15 70	027420.40
	SIC,SEN			1310.00	80		027421.40
		BRGZ,SERS		1304.35	42		027422.00
MP349	DL%U□,DMY79	-SECOND MULTIPLIER DIGIT IS 0010		30054.44	60		027422.40
	D*%U□,DMY61			30032.45	A0		027423.00
	CT0110%BU,48□,DMY79+.12,20			30054.14	80	060012.15 70	027423.40
	SIC,SEN			1310.00	80		027424.40
		BRGZ,SERS		1304.35	42		027425.00
	CT0110%BU,48□,DMY122,68			30126.00	80	060042.15 70	027425.40
	SIC,SEN			1310.00	80		027426.40
		BRGZ,SERS		1304.35	42		027427.00
	B,\$+1.			27430.50	00		027427.40
		B,MP333		27302.50	00		027430.00
	SIC,SEN	+ .32		1311.40	80		027430.40
		B,SSW		1301.10	00		027431.00
MP350	DL%U□,DMY80	-SECOND MULTIPLIER DIGIT IS 0011		30055.44	60		027431.40
	D*%U□,DMY61			30032.45	A0		027432.00
	CT0110%BU,48□,DMY80+.12,20			30055.14	80	060012.15 70	027432.40
	SIC,SEN			1310.00	80		027433.40
		BRGZ,SERS		1304.35	42		027434.00
	CT0110%BU,48□,DMY122,68			30126.00	80	060042.15 70	027434.40
	SIC,SEN			1310.00	80		027435.40
		BRGZ,SERS		1304.35	42		027436.00
MP351	DL%U□,DMY81	-SECOND MULTIPLIER DIGIT IS 0100		30056.44	60		027436.40
	D*%U□,DMY61			30032.45	A0		027437.00
	CT0110%BU,48□,DMY81+.12,20			30056.14	80	060012.15 70	027437.40
	SIC,SEN			1310.00	80		027440.40
		BRGZ,SERS		1304.35	42		027441.00
	CT0110%BU,48□,DMY122,68			30126.00	80	060042.15 70	027441.40
	SIC,SEN			1310.00	80		027442.40
		BRGZ,SERS		1304.35	42		027443.00
MP352	DL%U□,DMY82	-SECOND MULTIPLIER DIGIT IS 0101		30057.44	60		027443.40
	D*%U□,DMY61			30032.45	A0		027444.00
	CT0110%BU,48□,DMY82+.12,20			30057.14	80	060012.15 70	027444.40
	SIC,SEN			1310.00	80		027445.40
		BRGZ,SERS		1304.35	42		027446.00
	CT0110%BU,48□,DMY122,68			30126.00	80	060042.15 70	027446.40
	SIC,SEN			1310.00	80		027447.40
		BRGZ,SERS		1304.35	42		027450.00
MP353	DL%U□,DMY83	-SECOND MULTIPLIER DIGIT IS 0110		30060.44	60		027450.40
	D*%U□,DMY61			30032.45	A0		027451.00
	CT0110%BU,48□,DMY83+.12,20			30060.14	80	060012.15 70	027451.40
	SIC,SEN			1310.00	80		027452.40
		BRGZ,SERS		1304.35	42		027453.00
	CT0110%BU,48□,DMY122,68			30126.00	80	060042.15 70	027453.40
	SIC,SEN			1310.00	80		027454.40
		BRGZ,SERS		1304.35	42		027455.00
MP354	DL%U□,DMY84	-SECOND MULTIPLIER DIGIT IS 0111		30061.44	60		027455.40
	D*%U□,DMY61			30032.45	A0		027456.00
	CT0110%BU,48□,DMY84+.12,20			30061.14	80	060012.15 70	027456.40
	SIC,SEN			1310.00	80		027457.40
		BRGZ,SERS		1304.35	42		027460.00
	CT0110%BU,48□,DMY122,68			30126.00	80	060042.15 70	027460.40
	SIC,SEN			1310.00	80		027461.40
		BRGZ,SERS		1304.35	42		027462.00
MP355	DL%U□,DMY85	-SECOND MULTIPLIER DIGIT IS 1000		30062.44	60		027462.40
	D*%U□,DMY61			30032.45	A0		027463.00
	CT0110%BU,48□,DMY85+.12,20			30062.14	80	060012.15 70	027463.40
	SIC,SEN			1310.00	80		027464.40
		BRGZ,SERS		1304.35	42		027465.00

	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027465.40
	SIC,SEN		1310.00	80			027466.40
	BRGZ,SERS		1304.35	42			027467.00
MP356	DL%U#,DMY86	-SECOND MULTIPLIER DIGIT IS 1001	30063.44	60			027467.40
	D*%U#,DMY61		30032.45	A0			027470.00
	CT0110%BU,48#,DMY86+.12,20		30063.14	80	060012.15	70	027470.40
	SIC,SEN		1310.00	80			027471.40
	BRGZ,SERS		1304.35	42			027472.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027472.40
	SIC,SEN		1310.00	80			027473.40
	BRGZ,SERS		1304.35	42			027474.00
MP357	DL%U#,DMY87	-SECOND MULTIPLIER DIGIT IS 1010	30064.44	60			027474.40
	D*%U#,DMY61		30032.45	A0			027475.00
	CT0110%BU,48#,DMY87+.12,20		30064.14	80	060012.15	70	027475.40
	SIC,SEN		1310.00	80			027476.40
	BRGZ,SERS		1304.35	42			027477.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027477.40
	SIC,SEN		1310.00	80			027500.40
	BRGZ,SERS		1304.35	42			027501.00
MP358	DL%U#,DMY88	-SECOND MULTIPLIER DIGIT IS 1011	30065.44	60			027501.40
	D*%U#,DMY61		30032.45	A0			027502.00
	CT0110%BU,48#,DMY88+.12,20		30065.14	80	060012.15	70	027502.40
	SIC,SEN		1310.00	80			027503.40
	BRGZ,SERS		1304.35	42			027504.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027504.40
	SIC,SEN		1310.00	80			027505.40
	BRGZ,SERS		1304.35	42			027506.00
MP359	DL%U#,DMY89	-SECOND MULTIPLIER DIGIT IS 1100	30066.44	60			027506.40
	D*%U#,DMY61		30032.45	A0			027507.00
	CT0110%BU,48#,DMY89+.12,20		30066.14	80	060012.15	70	027507.40
	SIC,SEN		1310.00	80			027510.40
	BRGZ,SERS		1304.35	42			027511.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027511.40
	SIC,SEN		1310.00	80			027512.40
	BRGZ,SERS		1304.35	42			027513.00
MP360	DL%U#,DMY90	-SECOND MULTIPLIER DIGIT IS 1101	30067.44	60			027513.40
	D*%U#,DMY61		30032.45	A0			027514.00
	CT0110%BU,48#,DMY90+.12,20		30067.14	80	060012.15	70	027514.40
	SIC,SEN		1310.00	80			027515.40
	BRGZ,SERS		1304.35	42			027516.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027516.40
	SIC,SEN		1310.00	80			027517.40
	BRGZ,SERS		1304.35	42			027520.00
MP361	DL%U#,DMY91	-SECOND MULTIPLIER DIGIT IS 1110	30070.44	60			027520.40
	D*%U#,DMY61		30032.45	A0			027521.00
	CT0110%BU,48#,DMY91+.12,20		30070.14	80	060012.15	70	027521.40
	SIC,SEN		1310.00	80			027522.40
	BRGZ,SERS		1304.35	42			027523.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027523.40
	SIC,SEN		1310.00	80			027524.40
	BRGZ,SERS		1304.35	42			027525.00
MP362	DL%U#,DMY92	-SECOND MULTIPLIER DIGIT IS 1111	30071.44	60			027525.40
	D*%U#,DMY61		30032.45	A0			027526.00
	CT0110%BU,48#,DMY92+.12,20		30071.14	80	060012.15	70	027526.40
	SIC,SEN		1310.00	80			027527.40
	BRGZ,SERS		1304.35	42			027530.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027530.40
	SIC,SEN		1310.00	80			027531.40
	BRGZ,SERS		1304.35	42			027532.00
MP363	DL%U#,DMY93	-THIRD MULTIPLIER DIGIT IS 0010	30072.44	60			027532.40
	D*%U#,DMY61		30032.45	A0			027533.00
	CT0110%BU,48#,DMY93+.12,20		30072.14	80	060012.15	70	027533.40
	SIC,SEN		1310.00	80			027534.40
	BRGZ,SERS		1304.35	42			027535.00
	CT0110%BU,48#,DMY122,68		30126.00	80	060042.15	70	027535.40
	SIC,SEN		1310.00	80			027536.40

		BRGZ,SERS		1304.35 42	027537.00
MP364	DL%UH,DMY94	-THIRD MULTIPLIER DIGIT IS 0011		30073.44 60	027537.40
	D*%UH,DMY61			30032.45 A0	027540.00
	CT0110%BU,48H,DMY94+.12,20			30073.14 80 060012.15 70	027540.40
	SIC,SEN			1310.00 80	027541.40
		BRGZ,SERS		1304.35 42	027542.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027542.40
	SIC,SEN			1310.00 80	027543.40
		BRGZ,SERS		1304.35 42	027544.00
MP365	DL%UH,DMY95	-THIRD MULTIPLIER DIGIT IS 0100		30074.44 60	027544.40
	D*%UH,DMY61			30032.45 A0	027545.00
	CT0110%BU,48H,DMY95+.12,20			30074.14 80 060012.15 70	027545.40
	SIC,SEN			1310.00 80	027546.40
		BRGZ,SERS		1304.35 42	027547.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027547.40
	SIC,SEN			1310.00 80	027550.40
		BRGZ,SERS		1304.35 42	027551.00
MP366	DL%UH,DMY96	-THIRD MULTIPLIER DIGIT IS 0101		30075.44 60	027551.40
	D*%UH,DMY61			30032.45 A0	027552.00
	CT0110%BU,48H,DMY96+.12,20			30075.14 80 060012.15 70	027552.40
	SIC,SEN			1310.00 80	027553.40
		BRGZ,SERS		1304.35 42	027554.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027554.40
	SIC,SEN			1310.00 80	027555.40
		BRGZ,SERS		1304.35 42	027556.00
MP367	DL%UH,DMY97	-THIRD MULTIPLIER DIGIT IS 0110		30076.44 60	027556.40
	D*%UH,DMY61			30032.45 A0	027557.00
	CT0110%BU,48H,DMY97+.12,20			30076.14 80 060012.15 70	027557.40
	SIC,SEN			1310.00 80	027560.40
		BRGZ,SERS		1304.35 42	027561.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027561.40
	SIC,SEN			1310.00 80	027562.40
		BRGZ,SERS		1304.35 42	027563.00
MP368	DL%UH,DMY98	-THIRD MULTIPLIER DIGIT IS 0111		30077.44 60	027563.40
	D*%UH,DMY61			30032.45 A0	027564.00
	CT0110%BU,48H,DMY98+.12,20			30077.14 80 060012.15 70	027564.40
	SIC,SEN			1310.00 80	027565.40
		BRGZ,SERS		1304.35 42	027566.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027566.40
	SIC,SEN			1310.00 80	027567.40
		BRGZ,SERS		1304.35 42	027570.00
MP369	DL%UH,DMY99	-THIRD MULTIPLIER DIGIT IS 1000		30100.44 60	027570.40
	D*%UH,DMY61			30032.45 A0	027571.00
	CT0110%BU,48H,DMY99+.12,20			30100.14 80 060012.15 70	027571.40
	SIC,SEN			1310.00 80	027572.40
		BRGZ,SERS		1304.35 42	027573.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027573.40
	SIC,SEN			1310.00 80	027574.40
		BRGZ,SERS		1304.35 42	027575.00
	B,\$+1.			27576.50 00	027575.40
		B,MP350		27431.50 00	027576.00
	SIC,SEN0+.32			1311.40 80	027576.40
		B,SSW		1301.10 00	027577.00
MP370	DL%UH,DMY100	-THIRD MULTIPLIER DIGIT IS 1001		30101.44 60	027577.40
	D*%UH,DMY61			30032.45 A0	027600.00
	CT0110%BU,48H,DMY100+.12,20			30101.14 80 060012.15 70	027600.40
	SIC,SEN			1310.00 80	027601.40
		BRGZ,SERS		1304.35 42	027602.00
	CT0110%BU,48H,DMY122,68			30126.00 80 060042.15 70	027602.40
	SIC,SEN			1310.00 80	027603.40
		BRGZ,SERS		1304.35 42	027604.00
MP371	DL%UH,DMY101	-THIRD MULTIPLIER DIGIT IS 1010		30102.44 60	027604.40
	D*%UH,DMY61			30032.45 A0	027605.00
	CT0110%BU,48H,DMY101+.12,20			30102.14 80 060012.15 70	027605.40
	SIC,SEN			1310.00 80	027606.40
		BRGZ,SERS		1304.35 42	027607.00

	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027607.40
	SIC,SEN		1310.00	80			027610.40
	BRGZ,SERS		1304.35	42			027611.00
MP372	DL%UH,DMY102	-THIRD MULTIPLIER DIGIT IS 1011	30103.44	60			027611.40
	D*%UH,DMY61		30032.45	A0			027612.00
	CT0110%BU,48H,DMY102+.12,20		30103.14	80	060012.15	70	027612.40
	SIC,SEN		1310.00	80			027613.40
	BRGZ,SERS		1304.35	42			027614.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027614.40
	SIC,SEN		1310.00	80			027615.40
	BRGZ,SERS		1304.35	42			027616.00
MP373	DL%UH,DMY103	-THIRD MULTIPLIER DIGIT IS 1100	30104.44	60			027616.40
	D*%UH,DMY61		30032.45	A0			027617.00
	CT0110%BU,48H,DMY103+.12,20		30104.14	80	060012.15	70	027617.40
	SIC,SEN		1310.00	80			027620.40
	BRGZ,SERS		1304.35	42			027621.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027621.40
	SIC,SEN		1310.00	80			027622.40
	BRGZ,SERS		1304.35	42			027623.00
MP374	DL%UH,DMY104	-THIRD MULTIPLIER DIGIT IS 1101	30105.44	60			027623.40
	D*%UH,DMY61		30032.45	A0			027624.00
	CT0110%BU,48H,DMY104+.12,20		30105.14	80	060012.15	70	027624.40
	SIC,SEN		1310.00	80			027625.40
	BRGZ,SERS		1304.35	42			027626.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027626.40
	SIC,SEN		1310.00	80			027627.40
	BRGZ,SERS		1304.35	42			027630.00
MP375	DL%UH,DMY105	-THIRD MULTIPLIER DIGIT IS 1110	30106.44	60			027630.40
	D*%UH,DMY61		30032.45	A0			027631.00
	CT0110%BU,48H,DMY105+.12,20		30106.14	80	060012.15	70	027631.40
	SIC,SEN		1310.00	80			027632.40
	BRGZ,SERS		1304.35	42			027633.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027633.40
	SIC,SEN		1310.00	80			027634.40
	BRGZ,SERS		1304.35	42			027635.00
MP376	DL%UH,DMY106	-THIRD MULTIPLIER DIGIT IS 1111	30107.44	60			027635.40
	D*%UH,DMY61		30032.45	A0			027636.00
	CT0110%BU,48H,DMY106+.12,20		30107.14	80	060012.15	70	027636.40
	SIC,SEN		1310.00	80			027637.40
	BRGZ,SERS		1304.35	42			027640.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027640.40
	SIC,SEN		1310.00	80			027641.40
	BRGZ,SERS		1304.35	42			027642.00
MP377	DL%UH,DMY107	-FOURTH MULTIPLIER DIGIT IS 0010	30110.44	60			027642.40
	D*%UH,DMY61		30032.45	A0			027643.00
	CT0110%BU,48H,DMY107+.12,20		30110.14	80	060012.15	70	027643.40
	SIC,SEN		1310.00	80			027644.40
	BRGZ,SERS		1304.35	42			027645.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027645.40
	SIC,SEN		1310.00	80			027646.40
	BRGZ,SERS		1304.35	42			027647.00
MP378	DL%UH,DMY108	-FOURTH MULTIPLIER DIGIT IS 0011	30111.44	60			027647.40
	D*%UH,DMY61		30032.45	A0			027650.00
	CT0110%BU,48H,DMY108+.12,20		30111.14	80	060012.15	70	027650.40
	SIC,SEN		1310.00	80			027651.40
	BRGZ,SERS		1304.35	42			027652.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027652.40
	SIC,SEN		1310.00	80			027653.40
	BRGZ,SERS		1304.35	42			027654.00
MP379	DL%UH,DMY109	-FOURTH MULTIPLIER DIGIT IS 0100	30112.44	60			027654.40
	D*%UH,DMY61		30032.45	A0			027655.00
	CT0110%BU,48H,DMY109+.12,20		30112.14	80	060012.15	70	027655.40
	SIC,SEN		1310.00	80			027656.40
	BRGZ,SERS		1304.35	42			027657.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15	70	027657.40
	SIC,SEN		1310.00	80			027660.40

		BRGZ,SERS	1304.35	42		027661.00
MP380	DL%UH,DMY110	-FOURTH MULTIPLIER DIGIT IS 0101	30113.44	60		027661.40
	D*%UH,DMY61		30032.45	A0		027662.00
	CT0110%BU,48H,DMY110+.12,20		30113.14	80	060012.15 70	027662.40
	SIC,SEN		1310.00	80		027663.40
		BRGZ,SERS	1304.35	42		027664.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027664.40
	SIC,SEN		1310.00	80		027665.40
		BRGZ,SERS	1304.35	42		027666.00
MP381	DL%UH,DMY111	-FOURTH MULTIPLIER DIGIT IS 0110	30114.44	60		027666.40
	D*%UH,DMY61		30032.45	A0		027667.00
	CT0110%BU,48H,DMY111+.12,20		30114.14	80	060012.15 70	027667.40
	SIC,SEN		1310.00	80		027670.40
		BRGZ,SERS	1304.35	42		027671.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027671.40
	SIC,SEN		1310.00	80		027672.40
		BRGZ,SERS	1304.35	42		027673.00
MP382	DL%UH,DMY112	-FOURTH MULTIPLIER DIGIT IS 0111	30115.44	60		027673.40
	D*%UH,DMY61		30032.45	A0		027674.00
	CT0110%BU,48H,DMY112+.12,20		30115.14	80	060012.15 70	027674.40
	SIC,SEN		1310.00	80		027675.40
		BRGZ,SERS	1304.35	42		027676.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027676.40
	SIC,SEN		1310.00	80		027677.40
		BRGZ,SERS	1304.35	42		027700.00
MP383	DL%UH,DMY113	-FOURTH MULTIPLIER DIGIT IS 1000	30116.44	60		027700.40
	D*%UH,DMY61		30032.45	A0		027701.00
	CT0110%BU,48H,DMY113+.12,20		30116.14	80	060012.15 70	027701.40
	SIC,SEN		1310.00	80		027702.40
		BRGZ,SERS	1304.35	42		027703.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027703.40
	SIC,SEN		1310.00	80		027704.40
		BRGZ,SERS	1304.35	42		027705.00
MP384	DL%UH,DMY114	-FOURTH MULTIPLIER DIGIT IS 1001	30117.44	60		027705.40
	D*%UH,DMY61		30032.45	A0		027706.00
	CT0110%BU,48H,DMY114+.12,20		30117.14	80	060012.15 70	027706.40
	SIC,SEN		1310.00	80		027707.40
		BRGZ,SERS	1304.35	42		027710.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027710.40
	SIC,SEN		1310.00	80		027711.40
		BRGZ,SERS	1304.35	42		027712.00
MP385	DL%UH,DMY115	-FOURTH MULTIPLIER DIGIT IS 1010	30120.44	60		027712.40
	D*%UH,DMY61		30032.45	A0		027713.00
	CT0110%BU,48H,DMY115+.12,20		30120.14	80	060012.15 70	027713.40
	SIC,SEN		1310.00	80		027714.40
		BRGZ,SERS	1304.35	42		027715.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027715.40
	SIC,SEN		1310.00	80		027716.40
		BRGZ,SERS	1304.35	42		027717.00
MP386	DL%UH,DMY116	-FOURTH MULTIPLIER DIGIT IS 1011	30121.44	60		027717.40
	D*%UH,DMY61		30032.45	A0		027720.00
	CT0110%BU,48H,DMY116+.12,20		30121.14	80	060012.15 70	027720.40
	SIC,SEN		1310.00	80		027721.40
		BRGZ,SERS	1304.35	42		027722.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027722.40
	SIC,SEN		1310.00	80		027723.40
		BRGZ,SERS	1304.35	42		027724.00
MP387	DL%UH,DMY117	-FOURTH MULTIPLIER DIGIT I* 1100	30122.44	60		027724.40
	D*%UH,DMY61		30032.45	A0		027725.00
	CT0110%BU,48H,DMY117+.12,20		30122.14	80	060012.15 70	027725.40
	SIC,SEN		1310.00	80		027726.40
		BRGZ,SERS	1304.35	42		027727.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027727.40
	SIC,SEN		1310.00	80		027730.40
		BRGZ,SERS	1304.35	42		027731.00
MP388	DL%UH,DMY118	-FOURTH MULTIPLIER DIGIT I* 1101	30123.44	60		027731.40

	D*%UH,DMY61		30032.45	A0		027732.00
	CT0110%BU,48H,DMY118+.12,20		30123.14	80	060012.15 70	027732.40
	SIC,SEN		1310.00	80		027733.40
		BRGZ,SERS	1304.35	42		027734.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027734.40
	SIC,SEN		1310.00	80		027735.40
		BRGZ,SERS	1304.35	42		027736.00
MP389	DL%UH,DMY119	-FOURTH MULTIPLIER DIGIT I* 1110	30124.44	60		027736.40
	D*%UH,DMY61		30032.45	A0		027737.00
	CT0110%BU,48H,DMY119+.12,20		30124.14	80	060012.15 70	027737.40
	SIC,SEN		1310.00	80		027740.40
		BRGZ,SERS	1304.35	42		027741.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027741.40
	SIC,SEN		1310.00	80		027742.40
		BRGZ,SERS	1304.35	42		027743.00
MP390	DL%UH,DMY120	-FOURTH MULTIPLIER DIGIT I* 1111	30125.44	60		027743.40
	D*%UH,DMY61		30032.45	A0		027744.00
	CT0110%BU,48H,DMY120+.12,20		30125.14	80	060012.15 70	027744.40
	SIC,SEN		1310.00	80		027745.40
		BRGZ,SERS	1304.35	42		027746.00
	CT0110%BU,48H,DMY122,68		30126.00	80	060042.15 70	027746.40
	SIC,SEN		1310.00	80		027747.40
		BRGZ,SERS	1304.35	42		027750.00
	BD,MP391		30127.04	00		027750.40
	CNOP					

DMY12	%8HDD%BUH, 0	000 100 000 000 000 000 000 000	000010000000000000000000	027751.00
DMY13	%8HDD%BUH, 0	000 040 000 000 000 000 000 000	000004000000000000000000	027752.00
DMY14	%8HDD%BUH,	20 000 000 000 000 000 000	000002000000000000000000	027753.00
DMY15	%8HDD%BUH,	10 000 000 000 000 000 000	000001000000000000000000	027754.00
DMY16	%8HDD%BUH,	4 000 000 000 000 000 000	000000400000000000000000	027755.00
DMY17	%8HDD%BUH,	2 000 000 000 000 000 000	000000200000000000000000	027756.00
DMY18	%8HDD%BUH,	1 000 000 000 000 000 000	000000100000000000000000	027757.00
DMY19	%8HDD%BUH,	400 000 000 000 000 000	000000040000000000000000	027760.00
DMY20	%8HDD%BUH,	200 000 000 000 000 000	000000020000000000000000	027761.00
DMY21	%8HDD%BUH,	100 000 000 000 000 000	000000010000000000000000	027762.00
DMY22	%8HDD%BUH,	40 000 000 000 000 000	000000004000000000000000	027763.00
DMY23	%8HDD%BUH,	20 000 000 000 000 000	000000002000000000000000	027764.00
DMY24	%8HDD%BUH,	10 000 000 000 000 000	000000001000000000000000	027765.00
DMY25	%8HDD%BUH, 4	000 000 000 000	000000000400000000000000	027766.00
DMY26	%8HDD%BUH, 2	000 000 000 000	000000000200000000000000	027767.00
DMY27	%8HDD%BUH, 1	000 000 000 000	000000000100000000000000	027770.00
DMY28	%8HDD%BUH,	400 000 000 000	000000000040000000000000	027771.00
DMY29	%8HDD%BUH,	200 000 000 000	000000000020000000000000	027772.00
DMY30	%8HDD%BUH,	100 000 000 000	000000000010000000000000	027773.00
DMY31	%8HDD%BUH,	40 000 000 000	000000000004000000000000	027774.00
DMY32	%8HDD%BUH,	20 000 000 000	000000000002000000000000	027775.00
DMY33	%8HDD%BUH,	10 000 000 000	000000000001000000000000	027776.00
DMY34	%8HDD%BUH,	4 000 000 000	000000000000400000000000	027777.00
DMY35	%8HDD%BUH,	2 000 000 000	000000000000200000000000	030000.00
DMY36	%8HDD%BUH,	1 000 000 000	000000000000100000000000	030001.00
DMY37	%8HDD%BUH,	400 000 000	000000000000040000000000	030002.00
DMY38	%8HDD%BUH,	200 000 000	000000000000020000000000	030003.00
DMY39	%8HDD%BUH,	100 000 000	000000000000010000000000	030004.00
DMY40	%8HDD%BUH,	40 000 000	000000000000004000000000	030005.00
DMY41	%8HDD%BUH,	20 000 000	000000000000002000000000	030006.00
DMY42	%8HDD%BUH,	10 000 000	000000000000001000000000	030007.00
DMY43	%8HDD%BUH,	4 000 000	000000000000000400000000	030010.00
DMY44	%8HDD%BUH,	2 000 000	000000000000000200000000	030011.00
DMY45	%8HDD%BUH,	1 000 000	000000000000000100000000	030012.00
DMY46	%8HDD%BUH,	400 000	000000000000000040000000	030013.00
DMY47	%8HDD%BUH,	200 000	000000000000000020000000	030014.00
DMY48	%8HDD%BUH,	100 000	000000000000000010000000	030015.00
DMY49	%8HDD%BUH,	40 000	000000000000000004000000	030016.00
DMY50	%8HDD%BUH,	20000	000000000000000000200000	030017.00
DMY51	%8HDD%BUH,	10000	000000000000000000100000	030020.00
DMY52	%8HDD%BUH,	4000	000000000000000000040000	030021.00
DMY53	%8HDD%BUH,	2000	000000000000000000020000	030022.00
DMY54	%8HDD%BUH,	1000	000000000000000000010000	030023.00
DMY55	%8HDD%BUH,	400	000000000000000000004000	030024.00
DMY56	%8HDD%BUH,	200	000000000000000000002000	030025.00
DMY57	%8HDD%BUH,	100	000000000000000000001000	030026.00
DMY58	DD%BUH,	40	000000000000000000000050	030027.00
DMY59	%8HDD%BUH,	20	000000000000000000000020	030030.00
DMY60	%8HDD%BUH, 0	-FRACTION IS 000---0000	000000000000000000000000	030031.00
DMY61	%8HDD%BUH, 0	000 000 000 000 000 000 000 020	000000000000000000000020	030032.00
DMY62	%8HDD%BUH, 40	-FRACTION IS 000---0010	000000000000000000000040	030033.00
DMY63	%8HDD%BUH, 60	-FRACTION IS 000---0011	000000000000000000000060	030034.00
DMY64	%8HDD%BUH, 100	-FRACTION IS 000---0100	000000000000000000000100	030035.00
DMY65	%8HDD%BUH, 120	-FRACTION IS 000---0101	000000000000000000000120	030036.00
DMY66	%8HDD%BUH, 140	-FRACTION IS 000---0110	000000000000000000000140	030037.00
DMY67	%8HDD%BUH, 160	-FRACTION IS 000---0111	000000000000000000000160	030040.00
DMY68	%8HDD%BUH, 200	-FRACTION IS 000---1000	000000000000000000000200	030041.00
DMY69	%8HDD%BUH, 220	-FRACTION IS 000---1001	000000000000000000000220	030042.00
DMY70	%8HDD%BUH, 240	-FRACTION IS 000---1010	000000000000000000000240	030043.00
DMY71	%8HDD%BUH, 260	-FRACTION IS 000---1011	000000000000000000000260	030044.00
DMY72	%8HDD%BUH, 300	-FRACTION IS 000---1100	000000000000000000000300	030045.00
DMY73	%8HDD%BUH, 320	-FRACTION IS 000---1101	000000000000000000000320	030046.00

DMY74	%8HDD%BUH,340	-FRACTION IS 000---1110	00000000000000000000340	030047.00
DMY75	%8HDD%BUH,360	-FRACTION IS 000---1111	00000000000000000000360	030050.00
DMY76	%8HDD%BUH, 0 000 000 000 000 000 000 200		00000000000000000000200	030051.00
DMY77	%8HDD%BUH, 0 000 000 000 000 000 000 000		00000000000000000000200	030052.00
DMY78	%8HDD%BUH, 0 000 000 000 000 000 000 020 000		0000000000000000000020000	030053.00
DMY79	%8HDD%BUH, 0 026 400 000 000 000 000 000 400		002640000000000000000400	030054.00
DMY80	%8HDD%BUH, 0 026 400 000 000 000 000 000 600		002640000000000000000600	030055.00
DMY81	%8HDD%BUH, 0 026 400 000 000 000 000 001 000		0026400000000000000001000	030056.00
DMY82	%8HDD%BUH, 0 026 400 000 000 000 000 001 200		0026400000000000000001200	030057.00
DMY83	%8HDD%BUH, 0 026 400 000 000 000 000 001 400		0026400000000000000001400	030060.00
DMY84	%8HDD%BUH, 0 026 400 000 000 000 000 001 600		0026400000000000000001600	030061.00
DMY85	%8HDD%BUH, 0 026 400 000 000 000 000 002 000		0026400000000000000002000	030062.00
DMY86	%8HDD%BUH, 0 026 400 000 000 000 000 002 200		0026400000000000000002200	030063.00
DMY87	%8HDD%BUH, 0 026 400 000 000 000 000 002 400		0026400000000000000002400	030064.00
DMY88	%8HDD%BUH, 0 026 400 000 000 000 000 002 600		0026400000000000000002600	030065.00
DMY89	%8HDD%BUH, 0 026 400 000 000 000 000 003 000		0026400000000000000003000	030066.00
DMY90	%8HDD%BUH, 0 026 400 000 000 000 000 003 200		0026400000000000000003200	030067.00
DMY91	%8HDD%BUH, 0 026 400 000 000 000 000 003 400		0026400000000000000003400	030070.00
DMY92	%8HDD%BUH, 0 026 400 000 000 000 000 003 600		0026400000000000000003600	030071.00
DMY93	%8HDD%BUH, 0 025 000 000 000 000 000 004 000		0025000000000000000004000	030072.00
DMY94	%8HDD%BUH, 0 025 000 000 000 000 000 006 000		0025000000000000000006000	030073.00
DMY95	%8HDD%BUH, 0 025 000 000 000 000 000 010 000		00250000000000000000010000	030074.00
DMY96	%8HDD%BUH, 0 025 000 000 000 000 000 012 000		00250000000000000000012000	030075.00
DMY97	%8HDD%BUH, 0 025 000 000 000 000 000 014 000		00250000000000000000014000	030076.00
DMY98	%8HDD%BUH, 0 025 000 000 000 000 000 016 000		00250000000000000000016000	030077.00
DMY99	%8HDD%BUH, 0 025 000 000 000 000 000 020 000		00250000000000000000020000	030100.00
DMY100	%8HDD%BUH, 0 025 000 000 000 000 000 022 000		00250000000000000000022000	030101.00
DMY101	%8HDD%BUH, 0 025 000 000 000 000 000 024 000		00250000000000000000024000	030102.00
DMY102	%8HDD%BUH, 0 025 000 000 000 000 000 026 000		00250000000000000000026000	030103.00
DMY103	%8HDD%BUH, 0 025 000 000 000 000 000 030 000		00250000000000000000030000	030104.00
DMY104	%8HDD%BUH, 0 025 000 000 000 000 000 032 000		00250000000000000000032000	030105.00
DMY105	%8HDD%BUH, 0 025 000 000 000 000 000 034 000		00250000000000000000034000	030106.00
DMY106	%8HDD%BUH, 0 025 000 000 000 000 000 036 000		00250000000000000000036000	030107.00
DMY107	%8HDD%BUH, 0 023 400 000 000 000 000 040 000		00234000000000000000040000	030110.00
DMY108	%8HDD%BUH, 0 023 400 000 000 000 000 060 000		00234000000000000000060000	030111.00
DMY109	%8HDD%BUH, 0 023 400 000 000 000 000 100 000		002340000000000000000100000	030112.00
DMY110	%8HDD%BUH, 0 023 400 000 000 000 000 120 000		002340000000000000000120000	030113.00
DMY111	%8HDD%BUH, 0 023 400 000 000 000 000 140 000		002340000000000000000140000	030114.00
DMY112	%8HDD%BUH, 0 023 400 000 000 000 000 160 000		002340000000000000000160000	030115.00
DMY113	%8HDD%BUH, 0 023 400 000 000 000 000 200 000		002340000000000000000200000	030116.00
DMY114	%8HDD%BUH, 0 023 400 000 000 000 000 220 000		002340000000000000000220000	030117.00
DMY115	%8HDD%BUH, 0 023 400 000 000 000 000 240 000		002340000000000000000240000	030120.00
DMY116	%8HDD%BUH, 0 023 400 000 000 000 000 260 000		002340000000000000000260000	030121.00
DMY117	%8HDD%BUH, 0 023 400 000 000 000 000 300 000		002340000000000000000300000	030122.00
DMY118	%8HDD%BUH, 0 023 400 000 000 000 000 320 000		002340000000000000000320000	030123.00
DMY119	%8HDD%BUH, 0 023 400 000 000 000 000 340 000		002340000000000000000340000	030124.00
DMY120	%8HDD%BUH, 0 023 400 000 000 000 000 360 000		002340000000000000000360000	030125.00
DMY122	DD%BUH,0		0000000000000000000000000	030126.00
MP391	NOP		0.30 00	030127.00
	CNOP		0.30 00	030127.40
	B,s+1.		30131.10 00	030130.00
	B,MP370		27577.50 00	030130.40
	SIC,SENO+.32		1311.40 80	030131.00
	B,SSW		1301.10 00	030131.40

-IN THE COMMENTS FOR THIS ROUTINE G1 REFERS TO THE
 -MULTIPLICAND INPUT BITS CORRESPONDING TO THE FIRST
 -OCTAL MULTIPLIER DIGIT,G2 FOR THE SECOND,ETC.
 -SP AND CP ARE THE PARTIAL PRODUCT SUM AND CARRY
 -BITS RESPECTIVELY

- F304 TEST ROUTINE FOR THE CARRY SAVE ADDERS

146163.4

-THIS ROUTINE CHECKS THE CARRY SAVE ADDERS BY PROVIDING,
 -WHERE POSSIBLE, ALL EIGHT COMBINATIONS OF INPUTS TO
 -EACH POSITION OF ALL FOUR ADDERS.

CSADR1	BD,S+,32		30132.44 00	030132.00
	LX,SX13,CSADR		22003.32 10	030132.40
	SX,SX13,DPET13		1437.33 10	030133.00
	SIC,RET1		1306.40 80	030133.40
	B,IDE1		1443.10 00	030134.00
CSA1	L%UH,DCSA0		30341.40 60	030134.40
	*%UH,DCSA0	-ALL INPUTS 0	30341.41 A0	030135.00
	CT0110%BU,60H,DCSA0,68		30341.00 80 074042.15 70	030135.40
	SIC,SEN		1310.00 80	030136.40
	BRGZ,SERS		1304.35 42	030137.00
	L%UH,DCSA3		30344.40 60	030137.40
	D*%UH,DCSA1	-G1 IS 1, SP AND CP ARE 0	30342.45 A0	030140.00
	CT0110%BU,48H,DCSA1+,.12,21		30342.14 80 060012.55 70	030140.40
	SIC,SEN		1310.00 80	030141.40
	BRGZ,SERS		1304.35 42	030142.00
	CT0110%BU,60H,DCSA0,69		30341.00 80 074042.55 70	030142.40 0
	SIC,SEN		1310.00 80	030143.40
	BRGZ,SERS		1304.35 42	030144.00
CSA2	DL%UH,DCSA2		30343.44 60	030144.40
	D*%UH,DCSA0	-SP IS 1,G1 AND CP ARE 0	30341.45 A0	030145.00
	SIC,SEN		1310.00 80	030145.40
	BZRZ,SERS		1304.34 C0	030146.00
CSA3	DL%UH,DCSA4		30345.44 60	030146.40
	D*%UH,DCSA1	-ON SECOND ADD G1 AND SP ARE 0, CP IS 1	30342.45 A0	030147.00
	CT0110%BU,48H,DCSA5+,.12,20		30346.14 80 060012.15 70	030147.40
	SIC,SEN		1310.00 80	030150.40
	BRGZ,SERS		1304.35 42	030151.00
	CT0110%BU,60H,DCSA6,68		30347.00 80 074042.15 70	030151.40
	SIC,SEN		1310.00 80	030152.40
	BRGZ,SERS		1304.35 42	030153.00
CSA4	DL%UH,DCSA7		30350.44 60	030153.40
	D*%UH,DCSA1	-ON SECOND ADD G1 AND SP ARE 1, CP IS 0	30342.45 A0	030154.00
	CT0110%BU,48H,DCSA5+,.12,23		30346.14 80 060012.55 70	030154.40
	SIC,SEN		1310.00 80	030155.40
	BRGZ,SERS		1304.35 42	030156.00
	CT0110%BU,57H,DCSA6+,.3,71		30347.03 80 071043.55 70	030156.40
	SIC,SEN		1310.00 80	030157.40
	BRGZ,SERS		1304.35 42	030160.00
CSA5	DL%UH,DCSA8		30351.44 60	030160.40
	D*%UH,DCSA1	-ON SECOND ADD SP AND GP ARE 1, G1 IS 0	30342.45 A0	030161.00
	CT0110%BU,48H,DCSA9+,.12,20		30352.14 80 060012.15 70	030161.40
	SIC,SEN		1310.00 80	030162.40
	BRGZ,SERS		1304.35 42	030163.00
	CT0110%BU,48H,DCSA27+,.12,68		30374.14 80 060042.15 70	030163.40
	SIC,SEN		1310.00 80	030164.40
	BRGZ,SERS		1304.35 42	030165.00
CSA6	DL%UH,DCSA10		30353.44 60	030165.40
	D*%UH,DCSA1	-ON SECOND ADD G1 AND CP ARE 1, SP IS 0	30342.45 A0	030166.00
	CT0110%BU,48H,DCSA11+,.12,20		30354.14 80 060012.15 70	030166.40

	SIC,SEN		1310.00	80		030167.40
	BRGZ,SERS		1304.35	42		030170.00
	CT0110%BU,48H,DCSA12+.12,68		30355.14	80	060042.15 70	030170.40
	SIC,SEN		1310.00	80		030171.40
CSA8	DL%UH,DCSA15		1304.35	42		030172.00
	D*%UH,DCSA1	-G2 AND G3 ARE 0, G4 IS 1	30360.44	60		030172.40
	CT0110%BU,48H,DCSA13+.12,20		30342.45	A0		030173.00
	SIC,SEN		30356.14	80	060012.15 70	030173.40
	BRGZ,SERS		1310.00	80		030174.40
	CT0110%BU,48H,DCSA14+.12,68		1304.35	42		030175.00
	SIC,SEN		30357.14	80	060042.15 70	030175.40
CSA9	L%BU,48H,DCSA15+.9,68		1310.00	80		030176.40
	D*%UH,DCSA1	-G2 IS 0, G3 IS 1, G4 IS 0	1304.35	42		030177.00
	CT0110%BU,48H,DCSA16+.12,20		30360.11	80	060042.20 50	030177.40
	SIC,SEN		30342.45	A0		030200.40
	BRGZ,SERS		30361.14	80	060012.15 70	030201.00
	CT0110%BU,48H,DCSA17+.12,68		1310.00	80		030202.00
	SIC,SEN		1304.35	42		030202.40
CSA10	DL%UH,DCSA4		30362.14	80	060042.15 70	030203.00
	D*%UH,DCSA1	-G2 IS 0, G3 AND G4 ARE 1	1310.00	80		030204.00
	CT0110%BU,48H,DCSA5+.12,20		1304.35	42		030204.40
	SIC,SEN		30345.44	60		030205.00
	BRGZ,SERS		30342.45	A0		030205.40
	CT0110%BU,48H,DCSA6+.12,68		30346.14	80	060012.15 70	030206.00
	SIC,SEN		1310.00	80		030207.00
	BRGZ,SERS		1304.35	42		030207.40
CSA11	DL%UH,DCSA18		30347.14	80	060042.15 70	030210.00
	D*%UH,DCSA1	-G2 IS 1, G3 AND G4 ARE 0	1310.00	80		030211.00
	CT0110%BU,48H,DCSA19+.12,20		1304.35	42		030211.40
	SIC,SEN		30363.44	60		030212.00
	BRGZ,SERS		30342.45	A0		030212.40
	CT0110%BU,48H,DCSA20+.12,68		30364.14	80	060012.15 70	030213.00
	SIC,SEN		1310.00	80		030214.00
	BRGZ,SERS		1304.35	42		030214.40
CSA12	DL%UH,DCSA21		30365.14	80	060042.15 70	030215.00
	D*%UH,DCSA1	-G2 IS 1, G3 IS 0, G4 IS 1	1310.00	80		030216.00
	CT0110%BU,48H,DCSA22+.12,20		1304.35	42		030216.40
	SIC,SEN		30366.44	60		030217.00
	BRGZ,SERS		30342.45	A0		030217.40
	CT0110%BU,48H,DCSA23+.12,68		30367.14	80	060012.15 70	030220.00
	SIC,SEN		1310.00	80		030221.00
	BRGZ,SERS		1304.35	42		030221.40
CSA13	DL%UH,DCSA24		30370.14	80	060042.15 70	030222.00
	D*%UH,DCSA1	-G2 AND G3 ARE 1, G4 IS 0	1310.00	80		030223.00
	CT0110%BU,48H,DCSA25+.12,20		1304.35	42		030223.40
	SIC,SEN		30371.44	60		030224.00
	BRGZ,SERS		30342.45	A0		030224.40
	CT0110%BU,48H,DCSA26+.12,68		30372.14	80	060012.15 70	030225.00
	SIC,SEN		1310.00	80		030226.00
	BRGZ,SERS		1304.35	42		030226.40
CSA14	DL%UH,DCSA27		30373.14	80	060042.15 70	030227.00
	D*%UH,DCSA1	-G1, G3, AND G4 ARE 1 ON FIRST CYCLE	1310.00	80		030230.00
	CT0110%BU,48H,DCSA28+.12,20	-CP AND SP ARE 1 ON SEC CYCLE	1304.35	42		030230.40
	SIC,SEN	-EXCEPT	30374.44	60		030231.00
	BRGZ,SERS		30342.45	A0		030231.40
	CT0110%BU,48H,DCSA29+.12,68		30375.14	80	060012.15 70	030232.00
	SIC,SEN		1310.00	80		030233.00
	BRGZ,SERS	-FOR FIVE POSITIONS	1304.35	42		030233.40
CSA15	DL%UH,DCSA30		30376.14	80	060042.15 70	030234.00
	D*%UH,DCSA1	-ON THE THIRD ADD CYCLE C1 IS 1,	1310.00	80		030235.00
	SIC,SEN	-S1 AND S2 ARE 0	1304.35	42		030235.40
	BRGZ,SERS		30377.44	60		030236.00
	CT0110%BU,48H,DCSA31+.12,20		30342.45	A0		030236.40

	SIC,SEN		1310.00	80			030240.00
	BRGZ,SERS		1304.35	42			030240.40
	CT0110%BU,48H,DCSA18+,.12,68		30353.14	80	060042.15	70	030241.00
	SIC,SEN		1310.00	80			030242.00
	BRGZ,SERS		1304.35	42			030242.40
CSA16	DL%UH,DCSA2		30343.44	60			030243.00
	D*%UH,DCSA1	-S2 IS 0, S1 IS 1, C1 IS 0 ON SECOND CY	30342.45	A0			030243.40
	CT0110%BU,48H,DCSA1+,.12,20		30342.14	80	060012.15	70	030244.00
	SIC,SEN		1310.00	80			030245.00
	BRGZ,SERS		1304.35	42			030245.40
	CT0110%BU,48H,DCSA0+,.12,68		30341.14	80	060042.15	70	030246.00
	SIC,SEN		1310.00	80			030247.00
	BRGZ,SERS		1304.35	42			030247.40
CSA17	DL%UH,DCSA27		30374.44	60			030250.00
	D*%UH,DCSA32	-GIVES S1 AND C1 ON SECOND CYCLE FOR -THREE	30401.45	A0			030250.40
	CT0110%BU,48H,DCSA28+,.12,20	-OF THE FIVE POSITIONS MISSED BY -TEST CSA14	30375.14	80	060012.15	70	030251.00
	SIC,SEN		1310.00	80			030252.00
	BRGZ,SERS		1304.35	42			030252.40
	CT0110%BU,48H,DCSA38+,.12,68		30407.14	80	060042.15	70	030253.00
	SIC,SEN		1310.00	80			030254.00
	BRGZ,SERS		1304.35	42			030254.40
CSA18	DL%UH,DCSA33		30402.44	60			030255.00
	D*%UH,DCSA1	-ON SECOND ADD CYCLE S2 IS 1, -S1 IS 0, C1 IS 1	30342.45	A0			030255.40
	CT0110%BU,48H,DCSA34+,.12,20		30403.14	80	060012.15	70	030256.00
	SIC,SEN		1310.00	80			030257.00
	BRGZ,SERS		1304.35	42			030257.40
	CT0110%BU,48H,DCSA35+,.12,68		30404.14	80	060042.15	70	030260.00
	SIC,SEN		1310.00	80			030261.00
	BRGZ,SERS		1304.35	42			030261.40
CSA19	DL%UH,DCSA36		30405.44	60			030262.00
	D*%UH,DCSA1	-S2 AND S1 ARE 1, C1 IS 0	30342.45	A0			030262.40
	CT0110%BU,48H,DCSA37+,.12,20		30406.14	80	060012.15	70	030263.00
	SIC,SEN		1310.00	80			030264.00
	BRGZ,SERS		1304.35	42			030264.40
	CT0110%BU,48H,DCSA15+,.12,68		30360.14	80	060042.15	70	030265.00
	SIC,SEN		1310.00	80			030266.00
	BRGZ,SERS		1304.35	42			030266.40
	-THE NEXT TEST GENERATES PSEUDO RANDOM NUMBERS -AND FORMS THEIR PRODUCT USING FP MULTIPLY. -USING THE SAME OPERANDS, THEIR PRODUCT IS FORMED -BY REPEATED VFL ADDITION THE TWO PRODUCTS ARE -THEN COMPARED. IF THEY DISAGREE, BOTH PRODUCTS -ARE STORED IN FOUR CONSECUTIVE WORDS BEGINNING -AT SYMBOLIC LOCATION PRES1. -64000 SUCH PRODUCTS ARE GENERATED.						
	BZB,\$MB+,.46,CSAR3		4.56	80	030410.34	00	030267.00
	LX,\$X3,DMYP3		30326.06	10			030270.00
	L%BU,DMYP0		30324.00	80	000000.20	50	030270.40
	ST%BU,48H,RI+,.12	- INITIALIZE PSEUDO RANDOM NUMBER	30331.14	80	060000.20	D0	030271.40
	B,CSAR1A		30276.10	00			030272.40
CSAR1	BZB,\$MB+,.46,CSAR3		4.56	80	030410.34	00	030273.00
	L%BU,RI+1.		30332.00	80	000000.20	50	030274.00
	ST%BU,RI		30331.00	80	000000.20	D0	030275.00
CSAR1A	L%BU,48H,RI+,.12		30331.14	80	060000.20	50	030276.00
	*%BU,48H,RI+,.12		30331.14	80	060000.21	90	030277.00
	ST%BU,48H,RI+1.12,50	-RI+1. GETS NEXT NUMBER	30332.14	80	060031.20	D0	030300.00
	DL%UH,RI	-RI CONTAINS MULTIPLIER	30331.44	60			030301.00
	D*%UH,RI+1.	-FORM FP PRODUCT	30332.45	A0			030301.40
	ST%UH,PR1		30337.40	E0			030302.00
	SLO%UH,PR2	-THESE PRESERVE THE PRODUCT	30340.44	E0			030302.40
	LX,\$X1,DMYP1		30325.02	10			030303.00
	LX,\$X2,DMYP1		30325.04	10			030303.40
	L%BU,0.	-NOW GENERATE THE SAME	0.00	80	000000.20	50	030304.00

CSAR	BZB,RI+.59%SX1H,\$+2.	-PRODUCT BY VFL	30331.73	81	030207.34	00	030305.00
	+%BU,48H,RI+1.12.20%SX2H	-ADDITION	30332.14	80	060012.20	12	030306.00
	V+,\$X1,DMYP4		30327.02	80			030307.00
	V+,\$X2,DMYP5		30330.04	80			030307.40
	CB,\$X1,CSAR	-LOOK AT NEXT MULTIPLIER BIT	30305.02	48			030310.00
	CT0110%BU,48H,PR2+.12,20	-NOW COMPARE RESULTS	30340.14	80	060012.15	70	030310.40
	BRGZ,RRE		30314.75	42			030311.40
	CT0110%BU,48H,PR1+.12,68		30337.14	80	060042.15	70	030312.00
	BRGZ,RRE		30314.75	42			030313.00
CSAR2	CB,\$X3,CSAR1	-THIS RESULT WAS CORRECT	30273.06	48			030313.40
	B,CSAR3		30410.10	00			030314.00
RRE	ST%BU,48H,PRES1+.12,68	-AN ERROR WAS DISCOVERED	30333.14	80	060042.20	D0	030314.40
	ST%BU,48H,PRES1+2.12,20	-HIGH ORDER VFL FRACTION IN PRES1	30325.14	80	060012.20	D0	030315.40
	L%BUH,PR1	-HIGH ORDER FP FRACTION IN PRES1+1.	30337.00	80	000000.20	50	030316.40
	ST%BUH,PRES1+1.	-LOW ORDER VFL FRACTION IN PRES1+2.	30334.00	80	000000.20	D0	030317.40
	L%BUH,PR2	-LOW ORDER FP FRACTION IN PRES1+3.	30340.00	80	000000.20	50	030320.40
	ST%BUH,PRES1+3.		30336.00	80	000000.20	D0	030321.40
	SIC,SEN		1310.00	80			030322.40
	B,SERS		1304.10	00			030323.00
	B,CSAR2		30313.50	00			030323.40
	CNOP						

DMYP0	%8HDD%BUH, 0 000 137 257 433 562 103 540	0000137257433562103540	030324.00
DMYP1	XW,0,48	0.00 00 001400.00 00	030325.00
DMYP3	XW,0,64000	0.00 03 720000.00 00	030326.00
DMYP4	XW,%8H-0.01	0.01 80 000000.00 00	030327.00
DMYP5	XW,%8H0.40	0.40 00 000000.00 00	030330.00
DI	DR%BUH,2	2.00	030331.00
PRES1	DR%BUH,4	4.00	030333.00
PR1	DR%BUH,1	1.00	030337.00
PR2	DR%BUH,1	1.00	030340.00
DCSA0	DD%BUH,0	0000000000000000000000	030341.00
DCSA1	%8HDD%BUH, 0 000 177 777 777 777 777 760	000017777777777777760	030342.00
DCSA2	%8HDD%BUH, 0 000 000 000 000 000 000 020 -1 IN LOW ORDER	0000000000000000000020	030343.00
	-FRACTION POSITION		
DCSA3	%8HDD%BUH, 0 000 000 000 000 000 000 040 -1 IN NEXT TO LOW	0000000000000000000040	030344.00
	-ORDER FRACTION POSITION		
DCSA4	%8HDD%BUH, 0 000 000 000 000 000 022 000	00000000000000000022000	030345.00
DCSA5	%8HDD%BUH, 0 000 177 777 777 777 756 000	0000177777777777756000	030346.00
DCSA6	%8HDD%BUH, 0 000 000 000 000 000 021 760	00000000000000000021760	030347.00
DCSA7	%8HDD%BUH, 0 000 000 000 000 000 220 000	00000000000000000022000	030350.00
DCSA8	%8HDD%BUH, 0 000 000 000 000 000 022 220	00000000000000000022220	030351.00
DCSA9	%8HDD%BUH, 0 000 177 777 777 777 755 560	0000177777777777755560	030352.00
DCSA10	%8HDD%BUH, 0 000 000 000 000 000 004 440	00000000000000000004440	030353.00
DCSA11	%8HDD%BUH, 0 000 177 777 777 777 773 340	0000177777777777773340	030354.00
DCSA12	%8HDD%BUH, 0 000 000 000 000 000 004 420	00000000000000000004420	030355.00
DCSA13	%8HDD%BUH, 0 000 177 777 777 777 760 000	0000177777777777760000	030356.00
DCSA14	%8HDD%BUH, 0 000 000 000 000 000 017 760	00000000000000000017760	030357.00
DCSA15	%8HDD%BUH, 0 000 000 000 000 000 020 000	00000000000000000020000	030360.00
DCSA16	%8HDD%BUH, 0 000 177 777 777 777 776 000	0000177777777777776000	030361.00
DCSA17	%8HDD%BUH, 0 000 000 000 000 000 001 760	00000000000000000001760	030362.00
DCSA18	%8HDD%BUH, 0 000 000 000 000 000 000 200	00000000000000000000200	030363.00
DCSA19	%8HDD%BUH, 0 000 177 777 777 777 777 600	0000177777777777777600	030364.00
DCSA20	%8HDD%BUH, 0 000 000 000 000 000 000 160	00000000000000000000160	030365.00
DCSA21	%8HDD%BUH, 0 000 000 000 000 000 020 200	000000000000000000020200	030366.00
DCSA22	%8HDD%BUH, 0 000 177 777 777 777 757 600	0000177777777777757600	030367.00
DCSA23	%8HDD%BUH, 0 000 000 000 000 000 020 160	000000000000000000020160	030370.00
DCSA24	%8HDD%BUH, 0 000 000 000 000 000 002 200	000000000000000000002200	030371.00
DCSA25	%8HDD%BUH, 0 000 177 777 777 777 775 600	0000177777777777775600	030372.00
DCSA26	%8HDD%BUH, 0 000 000 000 000 000 002 160	000000000000000000002160	030373.00
DCSA27	%8HDD%BUH, 0 000 000 000 000 000 022 200	000000000000000000022200	030374.00
DCSA28	%8HDD%BUH, 0 000 177 777 777 777 755 600	0000177777777777755600	030375.00
DCSA29	%8HDD%BUH, 0 000 000 000 000 000 022 160	000000000000000000022160	030376.00
DCSA30	%8HDD%BUH, 0 000 000 000 000 000 000 220	00000000000000000000220	030377.00
DCSA31	%8HDD%BUH, 0 000 177 777 777 777 777 560	0000177777777777777560	030400.00
DCSA32	%8HDD%BUH, 0 000 157 777 777 777 777 760	0000157777777777777760	030401.00
DCSA33	%8HDD%BUH, 0 000 000 000 000 200 022 020	00000000000000200022020	030402.00
DCSA34	%8HDD%BUH, 0 000 177 777 777 577 755 760	0000177777777577755760	030403.00
DCSA35	%8HDD%BUH, 0 000 000 000 000 200 022 000	00000000000000200022000	030404.00
DCSA36	%8HDD%BUH, 0 000 000 000 000 000 020 020	000000000000000000020020	030405.00
DCSA37	%8HDD%BUH, 0 000 177 777 777 777 757 760	0000177777777777757760	030406.00
DCSA38	%8HDD%BUH, 0 000 000 000 000 000 017 740	00000000000000000017740	030407.00
CSAR3	NOP	0.30 00	030410.00
	BD,S+1.0	30411.44 00	030410.40
	B,CSADR1	30132.10 00	030411.00
	SIC,SEN0+.32	1311.40 80	030411.40
	B,SSW	- SSW 1301.10 00	030412.00

- F305 TEST ROUTINE FOR PARTIAL REMAINDER-DIVISOR DECODING
 -THIS ROUTINE CHECKS THE DECODING CIRCUITS WHICH ANALYZE
 -THE LEADING PARTIAL REMAINDER AND DIVISOR BITS IN DIVIDE.
 -THE ARE 128 TESTS. THE FIRST 64 TESTS USE PARTIAL REMAINDERS
 -IN TRUE FORM. THE LAST 64 USE COMPLEMENTED PARTIAL REMAINDERS

51, 52, 55
 10, 12, 17, 20

-UNLESS OTHERWISE STATED, THE PARTIAL REMAINDER-DIVISOR
 -COMBINATION GIVEN IN THE COMMENTS FOR A TEST WILL BE USED
 -IN THE SECOND REDUCTION CYCLE OF THE DIVISION IN THAT TEST.

-DV1 THROUGH DV29 CAUSE THE 1X TRUE MULTIPLE TO BE
 -SELECTED ON THE SECOND REDUCTION CYCLE.

-DV30 THROUGH DV49 CAUSE THE 3/4 TRUE MULTIPLE TO
 -BE SELECTED.

-DV50 THROUGH DV64 CAUSE THE 3/2 TRUE MULTIPLE TO
 -BE SELECTED.

PRDID1	BD,S+.32		30413.04 00	030412.40
	LX,SX13,PRDID		22004.32 10	030413.00
	SX,SX13,DPET13		1437.33 10	030413.40
	SIC,RET1		1306.40 80	030414.00
		B,JDF1	1443.10 00	030414.40
DV1	L%UH,DDV1	-PARTIAL REM. BITS 100 ...	31226.40 60	030415.00
	/%UH,DDV2	-DIVISOR BITS 10000 ...	31227.41 E0	030415.40
	CT0110%BU,48H,DDV1+.12,68		31226.14 80	060042.15 70
	SIC,SEN		1310.00 80	030417.00
		BRGZ,SERS	1304.35 42	030417.40
DV2	L%UH,DDV3	-PARTIAL REM. BITS 100 ...	31230.40 60	030420.00
	/%UH,DDV4	-DIVISOR BITS 10001 ...	31231.41 E0	030420.40
	CT0110%BU,48H,DDV5+.12,68		31232.14 80	060042.15 70
	SIC,SEN		1310.00 80	030422.00
		BRGZ,SERS	1304.35 42	030422.40
DV3	L%UH,DDV7	-PARTIAL REM. BITS 100 ...	31234.40 60	030423.00
	/%UH,DDV6	-DIVISOR BITS 10010 ...	31233.41 E0	030423.40
	CT0110%BU,48H,DDV8+.12,68		31235.14 80	060042.15 70
	SIC,SEN		1310.00 80	030425.00
		BRGZ,SERS	1304.35 42	030425.40
DV4	L%UH,DDV9	-PARTIAL REM. BITS 100 ...	31236.40 60	030426.00
	/%UH,DDV10	-DIVISOR BITS 10011 ...	31237.41 E0	030426.40
	CT0110%BU,48H,DDV11+.12,68		31240.14 80	060042.15 70
	SIC,SEN		1310.00 80	030430.00
		BRGZ,SERS	1304.35 42	030430.40
DV5	L%UH,DDV12	-PARTIAL REM. BITS 100 ...	31241.40 60	030431.00
	/%UH,DDV13	-DIVISOR BITS 10100 ...	31242.41 E0	030431.40
	CT0110%BU,48H,DDV14+.12,68		31243.14 80	060042.15 70
	SIC,SEN		1310.00 80	030433.00
		BRGZ,SERS	1304.35 42	030433.40
DV6	L%UH,DDV15	-PARTIAL REM. BITS 100 ...	31244.40 60	030434.00
	/%UH,DDV16	-DIVISOR BITS 10101 ...	31245.41 E0	030434.40
	CT0110%BU,48H,DDV17+.12,68		31246.14 80	060042.15 70
	SIC,SEN		1310.00 80	030436.00
		BRGZ,SERS	1304.35 42	030436.40
DV7	L%UH,DDV18	-PARTIAL REM. BITS 101 ...	31247.40 60	030437.00
	/%UH,DDV19	-DIVISOR BITS 10011 ...	31250.41 E0	030437.40
	CT0110%BU,48H,DDV20+.12,68		31251.14 80	060042.15 70
	SIC,SEN		1310.00 80	030441.00
		BRGZ,SERS	1304.35 42	030441.40
DV8	L%UH,DDV21	-PARTIAL REM. BITS 101 ...	31252.40 60	030442.00
	/%UH,DDV22	-DIVISOR BITS 10100 ...	31253.41 E0	030442.40

	CT0110%BU,48#,DDV23+.12,68		31254.14	80	060042.15	70	030443.00
	SIC,SEN		1310.00	80			030444.00
	BRGZ,SERS		1304.35	42			030444.40
DV9	L%U#,DDV24	-PARTIAL REM. BITS 101 ...	31255.40	60			030445.00
	/%U#,DDV25	-DIVISOR BITS 10101 ...	31256.41	E0			030445.40
	CT0110%BU,48#,DDV26+.12,68		31257.14	80	060042.15	70	030446.00
	SIC,SEN		1310.00	80			030447.00
	BRGZ,SERS		1304.35	42			030447.40
DV10	L%U#,DDV27	-PARTIAL REM. BITS 101 ...	31260.40	60			030450.00
	/%U#,DDV28	-DIVISOR BITS 10110 ...	31261.41	E0			030450.40
	CT0110%BU,48#,DDV29+.12,68		31262.14	80	060042.15	70	030451.00
	SIC,SEN		1310.00	80			030452.00
	BRGZ,SERS		1304.35	42			030452.40
DV11	L%U#,DDV30	-PARTIAL REM. BITS 101 ...	31263.40	60			030453.00
	/%U#,DDV31	-DIVISOR BITS 10111 ...	31264.41	E0			030453.40
	CT0110%BU,48#,DDV32+.12,68		31265.14	80	060042.15	70	030454.00
	SIC,SEN		1310.00	80			030455.00
	BRGZ,SERS		1304.35	42			030455.40
DV12	L%U#,DDV33	-PARTIAL REM. BITS 101 ...	31266.40	60			030456.00
	/%U#,DDV34	-DIVISOR BITS 11000 ...	31267.41	E0			030456.40
	CT0110%BU,48#,DDV35+.12,68		31270.14	80	060042.15	70	030457.00
	SIC,SEN		1310.00	80			030460.00
	BRGZ,SERS		1304.35	42			030460.40
DV13	L%U#,DDV36	-PARTIAL REM. BITS 110 ...	31271.40	60			030461.00
	/%U#,DDV37	-DIVISOR BITS 10101 ...	31272.41	E0			030461.40
	CT0110%BU,48#,DDV38+.12,68		31273.14	80	060042.15	70	030462.00
	SIC,SEN		1310.00	80			030463.00
	BRGZ,SERS		1304.35	42			030463.40
DV14	L%U#,DDV39	-PARTIAL REM. BITS 110 ...	31274.40	60			030464.00
	/%U#,DDV40	-DIVISOR BITS 10110 ...	31275.41	E0			030464.40
	CT0110%BU,48#,DDV41+.12,68		31276.14	80	060042.15	70	030465.00
	SIC,SEN		1310.00	80			030466.00
	BRGZ,SERS		1304.35	42			030466.40
DV15	L%U#,DDV42	-PARTIAL REM. BITS 110 ...	31277.40	60			030467.00
	/%U#,DDV43	-DIVISOR BITS 10111 ...	31300.41	E0			030467.40
	CT0110%BU,48#,DDV44+.12,68		31301.14	80	060042.15	70	030470.00
	SIC,SEN		1310.00	80			030471.00
	BRGZ,SERS		1304.35	42			030471.40
DV16	L%U#,DDV45	-PARTIAL REM. BITS 110 ...	31302.40	60			030472.00
	/%U#,DDV46	-DIVISOR BITS 11000 ...	31303.41	E0			030472.40
	CT0110%BU,48#,DDV47+.12,68		31304.14	80	060042.15	70	030473.00
	SIC,SEN		1310.00	80			030474.00
	BRGZ,SERS		1304.35	42			030474.40
DV17	L%U#,DDV48	-PARTIAL REM. BITS 110 ...	31305.40	60			030475.00
	/%U#,DDV49	-DIVISOR BITS 11001 ...	31306.41	E0			030475.40
	CT0110%BU,48#,DDV50+.12,68		31307.14	80	060042.15	70	030476.00
	SIC,SEN		1310.00	80			030477.00
	BRGZ,SERS		1304.35	42			030477.40
DV18	L%U#,DDV51	-PARTIAL REM. BITS 110 ...	31310.40	60			030500.00
	/%U#,DDV52	-DIVISOR BITS 11010 ...	31311.41	E0			030500.40
	CT0110%BU,48#,DDV53+.12,68		31312.14	80	060042.15	70	030501.00
	SIC,SEN		1310.00	80			030502.00
	BRGZ,SERS		1304.35	42			030502.40
DV19	L%U#,DDV54	-PARTIAL REM. BITS 110 ...	31313.40	60			030503.00
	/%U#,DDV55	-DIVISOR BITS 11011 ...	31314.41	E0			030503.40
	CT0110%BU,48#,DDV56+.12,68		31315.14	80	060042.15	70	030504.00
	SIC,SEN		1310.00	80			030505.00
	BRGZ,SERS		1304.35	42			030505.40
DV20	L%U#,DDV57	-PARTIAL REM. BITS 110 ...	31316.40	60			030506.00
	/%U#,DDV58	-DIVISOR BITS 11100 ...	31317.41	E0			030506.40
	CT0110%BU,48#,DDV59+.12,68		31320.14	80	060042.15	70	030507.00
	SIC,SEN		1310.00	80			030510.00
	BRGZ,SERS		1304.35	42			030510.40
DV21	L%U#,DDV60	-PARTIAL REM. BITS 110 ...	31321.40	60			030511.00
	/%U#,DDV61	-DIVISOR BITS 11101 ...	31322.41	E0			030511.40
	CT0110%BU,48#,DDV62+.12,68		31323.14	80	060042.15	70	030512.00

	SIC,SEN			1310.00	80		030513.00
	BRGZ,SERS			1304.35	42		030513.40
DV22	L%U#,DDV63	-PARTIAL REM. BITS 110 ...		31324.40	60		030514.00
	/%U#,DDV64	-DIVISOR BITS 11110 ...		31325.41	E0		030514.40
	CT0110%BU,48#,DDV65+.12,68			31326.14	80	060042.15 70	030515.00
	SIC,SEN			1310.00	80		030516.00
	BRGZ,SERS			1304.35	42		030516.40
DV23	L%U#,DDV66	-PARTIAL REM. BITS 111 ...		31327.40	60		030517.00
	/%U#,DDV67	-DIVISOR BITS 11001 ...		31330.41	E0		030517.40
	CT0110%BU,48#,DDV68+.12,68			31331.14	80	060042.15 70	030520.00
	SIC,SEN			1310.00	80		030521.00
	BRGZ,SERS			1304.35	42		030521.40
DV24	L%U#,DDV69	-PARTIAL REM. BITS 111 ...		31332.40	60		030522.00
	/%U#,DDV70	-DIVISOR BITS 11010 ...		31332.41	E0		030522.40
	CT0110%BU,48#,DDV71+.12,68			31334.14	80	060042.15 70	030523.00
	SIC,SEN			1310.00	80		030524.00
	BRGZ,SERS			1304.35	42		030524.40
DV25	L%U#,DDV72	-PARTIAL REM. BITS 111 ...		31335.40	60		030525.00
	/%U#,DDV73	-DIVISOR BITS 11011 ...		31336.41	E0		030525.40
	CT0110%BU,48#,DDV74+.12,68			31337.14	80	060042.15 70	030526.00
	SIC,SEN			1310.00	80		030527.00
	BRGZ,SERS			1304.35	42		030527.40
	BD,\$+1.0			30531.04	00		030530.00
	B,PRDID1			30412.50	00		030530.40
	SIC,SEN0+.32			1311.40	80		030531.00
	B,SSW			1301.10	00		030531.40
DV26	L%U#,DDV75	-PARTIAL REM. BITS 111 ...		31340.40	60		030532.00
	/%U#,DDV76	-DIVISOR BITS 11100 ...		31341.41	E0		030532.40
	CT0110%BU,48#,DDV77+.12,68			31342.14	80	060042.15 70	030533.00
	SIC,SEN			1310.00	80		030534.00
	BRGZ,SERS			1304.35	42		030534.40
DV27	L%U#,DDV78	-PARTIAL REM. BITS 111 ...		31343.40	60		030535.00
	/%U#,DDV79	-DIVISOR BITS 11101 ...		31344.41	E0		030535.40
	CT0110%BU,48#,DDV80+.12,68			31345.14	80	060042.15 70	030536.00
	SIC,SEN			1310.00	80		030537.00
	BRGZ,SERS			1304.35	42		030537.40
DV28	L%U#,DDV81	-PARTIAL REM. BITS 111 ...		31346.40	60		030540.00
	/%U#,DDV82	-DIVISOR BITS 11110 ...		31347.41	E0		030540.40
	CT0110%BU,48#,DDV83+.12,68			31350.14	80	060042.15 70	030541.00
	SIC,SEN			1310.00	80		030542.00
	BRGZ,SERS			1304.35	42		030542.40
DV29	L%U#,DDV84	-PARTIAL REM. BITS 111 ...		31351.40	60		030543.00
	/%U#,DDV85	-DIVISOR BITS 11111 ...		31352.41	E0		030543.40
	CT0110%BU,48#,DDV86+.12,68			31353.14	80	060042.15 70	030544.00
	SIC,SEN			1310.00	80		030545.00
	BRGZ,SERS			1304.35	42		030545.40
DV30	L%U#,DDV87	-PARTIAL REM. BITS 100 ...		31354.40	60		030546.00
	/%U#,DDV88	-DIVISOR BITS 10101 ...		31355.41	E0		030546.40
	CT0110%BU,48#,DDV89+.12,68			31356.14	80	060042.15 70	030547.00
	SIC,SEN			1310.00	80		030550.00
	BRGZ,SERS			1304.35	42		030550.40
DV31	L%U#,DDV90	-PARTIAL REM. BITS 100 ...		31357.40	60		030551.00
	/%U#,DDV91	-DIVISOR BITS 10110 ...		31360.41	E0		030551.40
	CT0110%BU,48#,DDV92+.12,68			31361.14	80	060042.15 70	030552.00
	SIC,SEN			1310.00	80		030553.00
	BRGZ,SERS			1304.35	42		030553.40
DV32	L%U#,DDV93	-PARTIAL REM. BITS 100 ...		31362.40	60		030554.00
	/%U#,DDV94	-DIVISOR BITS 10111 ...		31363.41	E0		030554.40
	CT0110%BU,48#,DDV95+.12,68			31364.14	80	060042.15 70	030555.00
	SIC,SEN			1310.00	80		030556.00
	BRGZ,SERS			1304.35	42		030556.40
DV33	L%U#,DDV96	-PARTIAL REM. BITS 100 ...		31365.40	60		030557.00
	/%U#,DDV97	-DIVISOR BITS 11000 ...		31366.41	E0		030557.40
	CT0110%BU,48#,DDV98+.12,68			31367.14	80	060042.15 70	030560.00
	SIC,SEN			1310.00	80		030561.00
	BRGZ,SERS			1304.35	42		030561.40

DV34	L%UH,DDV99	-PARTIAL REM. BITS 100 ...	31370.40	60		030562.00
	/%UH,DDV100	-DIVISOR BITS 11001 ...	31371.41	E0		030562.40
	CT0110%BU,48H,DDV101+.12,68		31372.14	80	060042.15 70	030563.00
	SIC,SEN		1310.00	80		030564.00
	BRGZ,SERS		1304.35	42		030564.40
DV35	L%UH,DDV102	-PARTIAL REM. BITS 100 ...	31373.40	60		030565.00
	/%UH,DDV103	-DIVISOR BITS 11010 ...	31374.41	E0		030565.40
	CT0110%BU,48H,DDV104+.12,68		31375.14	80	060042.15 70	030566.00
	SIC,SEN		1310.00	80		030567.00
	BRGZ,SERS		1304.35	42		030567.40
DV36	L%UH,DDV105	-PARTIAL REM. BITS 100 ...	31376.40	60		030570.00
	/%UH,DDV106	-DIVISOR BITS 11011 ...	31377.41	E0		030570.40
	CT0110%BU,48H,DDV107+.12,68		31400.14	80	060042.15 70	030571.00
	SIC,SEN		1310.00	80		030572.00
	BRGZ,SERS		1304.35	42		030572.40
DV37	L%UH,DDV108	-PARTIAL REM. BITS 100 ...	31401.40	60		030573.00
	/%UH,DDV109	-DIVISOR BITS 11100 ...	31402.41	E0		030573.40
	CT0110%BU,48H,DDV110+.12,68		31403.14	80	060042.15 70	030574.00
	SIC,SEN		1310.00	80		030575.00
	BRGZ,SERS		1304.35	42		030575.40
DV38	L%UH,DDV111	-PARTIAL REM. BITS 100 ...	31404.40	60		030576.00
	/%UH,DDV112	-DIVISOR BITS 11101 ...	31405.41	E0		030576.40
	CT0110%BU,48H,DDV113+.12,68		31406.14	80	060042.15 70	030577.00
	SIC,SEN		1310.00	80		030600.00
	BRGZ,SERS		1304.35	42		030600.40
DV39	L%UH,DDV114	-PARTIAL REM. BITS 100 ...	31407.40	60		030601.00
	/%UH,DDV115	-DIVISOR BITS 11110 ...	31410.41	E0		030601.40
	CT0110%BU,48H,DDV116+.12,68		31411.14	80	060042.15 70	030602.00
	SIC,SEN		1310.00	80		030603.00
	BRGZ,SERS		1304.35	42		030603.40
DV40	L%UH,DDV117	-PARTIAL REM. BITS 100 ...	31412.40	60		030604.00
	/%UH,DDV118	-DIVISOR BITS 11111 ...	31413.41	E0		030604.40
	CT0110%BU,48H,DDV119+.12,68		31414.14	80	060042.15 70	030605.00
	SIC,SEN		1310.00	80		030606.00
	BRGZ,SERS		1304.35	42		030606.40
DV41	L%UH,DDV120	-PARTIAL REM. BITS 101 ...	31415.40	60		030607.00
	/%UH,DDV121	-DIVISOR BITS 11001 ...	31416.41	E0		030607.40
	CT0110%BU,48H,DDV122+.12,68		31417.14	80	060042.15 70	030610.00
	SIC,SEN		1310.00	80		030611.00
	BRGZ,SERS		1304.35	42		030611.40
DV42	L%UH,DDV123	-PARTIAL REM. BITS 101 ...	31420.40	60		030612.00
	/%UH,DDV124	-DIVISOR BITS 11010 ...	31421.41	E0		030612.40
	CT0110%BU,48H,DDV125+.12,68		31422.14	80	060042.15 70	030613.00
	SIC,SEN		1310.00	80		030614.00
	BRGZ,SERS		1304.35	42		030614.40
DV43	L%UH,DDV126	-PARTIAL REM. BITS 101 ...	31423.40	60		030615.00
	/%UH,DDV127	-DIVISOR BITS 11011 ...	31424.41	E0		030615.40
	CT0110%BU,48H,DDV128+.12,68		31425.14	80	060042.15 70	030616.00
	SIC,SEN		1310.00	80		030617.00
	BRGZ,SERS		1304.35	42		030617.40
DV44	L%UH,DDV129	-PARTIAL REM. BITS 101 ...	31426.40	60		030620.00
	/%UH,DDV130	-DIVISOR BITS 11100 ...	31427.41	E0		030620.40
	CT0110%BU,48H,DDV131+.12,68		31430.14	80	060042.15 70	030621.00
	SIC,SEN		1310.00	80		030622.00
	BRGZ,SERS		1304.35	42		030622.40
DV45	L%UH,DDV132	-PARTIAL REM. BITS 101 ...	31431.40	60		030623.00
	/%UH,DDV133	-DIVISOR BITS 11101 ...	31432.41	E0		030623.40
	CT0110%BU,48H,DDV134+.12,68		31433.14	80	060042.15 70	030624.00
	SIC,SEN		1310.00	80		030625.00
	BRGZ,SERS		1304.35	42		030625.40
DV46	L%UH,DDV135	-PARTIAL REM. BITS 101 ...	31434.40	60		030626.00
	/%UH,DDV136	-DIVISOR BITS 11110 ...	31435.41	E0		030626.40
	CT0110%BU,48H,DDV137+.12,68		31436.14	80	060042.15 70	030627.00
	SIC,SEN		1310.00	80		030630.00
	BRGZ,SERS		1304.35	42		030630.40
DV47	L%UH,DDV138	-PARTIAL REM. BITS 101 ...	31437.40	60		030631.00

	/%U#,DDV139	-DIVISOR BITS 11111 ...	31440.41 E0	030631.40
	CT0110%BU,48#,DDV140+.12,68		31441.14 80 060042.15 70	030632.00
	SIC,SEN		1310.00 80	030633.00
	BRGZ,SERS		1304.35 42	030633.40
DV48	L%U#,DDV141	-PARTIAL REM. BITS 110 ...	31442.40 60	030634.00
	/%U#,DDV142	-DIVISOR BITS 11110 ...	31443.41 E0	030634.40
	CT0110%BU,48#,DDV143+.12,68		31444.14 80 060042.15 70	030635.00
	SIC,SEN		1310.00 80	030636.00
	BRGZ,SERS		1304.35 42	030636.40
DV49	L%U#,DDV144	-PARTIAL REM. BITS 110 ...	31445.40 60	030637.00
	/%U#,DDV145	-DIVISOR BITS 11111 ...	31446.41 E0	030637.40
	CT0110%BU,48#,DDV146+.12,68		31447.14 80 060042.15 70	030640.00
	SIC,SEN		1310.00 80	030641.00
	BRGZ,SERS		1304.35 42	030641.40
DV50	L%U#,DDV147	-PARTIAL REM. BITS 101 ...	31450.40 60	030642.00
	/%U#,DDV148	-DIVISOR BITS 10000 ...	31451.41 E0	030642.40
	CT0110%BU,48#,DDV149+.12,68		31452.14 80 060042.15 70	030643.00
	SIC,SEN		1310.00 80	030644.00
	BRGZ,SERS		1304.35 42	030644.40
	B,\$+1.		30646.10 00	030645.00
	B,DV26		30532.10 00	030645.40
	SIC,SEN0+.32		1311.40 80	030646.00
	B,SSW		1301.10 00	030646.40
DV51	L%U#,DDV150	-PARTIAL REM. BITS 101 ...	31453.40 60	030647.00
	/%U#,DDV151	-DIVISOR BITS 10001 ...	31454.41 E0	030647.40
	CT0110%BU,48#,DDV152+.12,68		31455.14 80 060042.15 70	030650.00
	SIC,SEN		1310.00 80	030651.00
	BRGZ,SERS		1304.35 42	030651.40
DV52	L%U#,DDV153	-PARTIAL REM. BITS 110 ...	31456.40 60	030652.00
	/%U#,DDV154	-DIVISOR BITS 10000 ...	31457.41 E0	030652.40
	CT0110%BU,48#,DDV155+.12,68		31460.14 80 060042.15 70	030653.00
	SIC,SEN		1310.00 80	030654.00
	BRGZ,SERS		1304.35 42	030654.40
DV53	L%U#,DDV156	-PARTIAL REM. BITS 110 ...	31461.40 60	030655.00
	/%U#,DDV157	-DIVISOR BITS 10001 ...	31462.41 E0	030655.40
	CT0110%BU,48#,DDV158+.12,68		31463.14 80 060042.15 70	030656.00
	SIC,SEN		1310.00 80	030657.00
	BRGZ,SERS		1304.35 42	030657.40
DV54	L%U#,DDV159	-PARTIAL REM. BITS 110 ...	31464.40 60	030660.00
	/%U#,DDV160	-DIVISOR BITS 10010 ...	31465.41 E0	030660.40
	CT0110%BU,48#,DDV161+.12,68		31466.14 80 060042.15 70	030661.00
	SIC,SEN		1310.00 80	030662.00
	BRGZ,SERS		1304.35 42	030662.40
DV55	L%U#,DDV162	-PARTIAL REM. BITS 110 ...	31467.40 60	030663.00
	/%U#,DDV163	-DIVISOR BITS 10011 ...	31470.41 E0	030663.40
	CT0110%BU,48#,DDV164+.12,68		31471.14 80 060042.15 70	030664.00
	SIC,SEN		1310.00 80	030665.00
	BRGZ,SERS		1304.35 42	030665.40
DV56	L%U#,DDV165	-PARTIAL REM. BITS 110 ...	31472.40 60	030666.00
	/%U#,DDV166	-DIVISOR BITS 10100 ...	31473.41 E0	030666.40
	CT0110%BU,48#,DDV167+.12,68		31474.14 80 060042.15 70	030667.00
	SIC,SEN		1310.00 80	030670.00
	BRGZ,SERS		1304.35 42	030670.40
DV57	L%U#,DDV168	-PARTIAL REM. BITS 111 ...	31475.40 60	030671.00
	/%U#,DDV169	-DIVISOR BITS 10000 ...	31476.41 E0	030671.40
	CT0110%BU,48#,DDV170+.12,68		31477.14 80 060042.15 70	030672.00
	SIC,SEN		1310.00 80	030673.00
	BRGZ,SERS		1304.35 42	030673.40
DV58	L%U#,DDV171	-PARTIAL REM. BITS 111 ...	31500.40 60	030674.00
	/%U#,DDV172	-DIVISOR BITS 10001 ...	31501.41 E0	030674.40
	CT0110%BU,48#,DDV173+.12,68		31502.14 80 060042.15 70	030675.00
	SIC,SEN		1310.00 80	030676.00
	BRGZ,SERS		1304.35 42	030676.40
DV59	L%U#,DDV174	-PARTIAL REM. BITS 111 ...	31503.40 60	030677.00
	/%U#,DDV175	-DIVISOR BITS 10010 ...	31504.41 E0	030677.40
	CT0110%BU,48#,DDV176+.12,68		31505.14 80 060042.15 70	030700.00

	SIC,SEN			1310.00	80		030701.00
	BRGZ,SERS			1304.35	42		030701.40
DV60	L%UH,DDV177	-PARTIAL REM. BITS 111 ...		31506.40	60		030702.00
	/%UH,DDV178	-DIVISOR BITS 10011 ...		31507.41	E0		030702.40
	CT0110%BU,48H,DDV179+.12,68			31510.14	80	060042.15 70	030703.00
	SIC,SEN			1310.00	80		030704.00
	BRGZ,SERS			1304.35	42		030704.40
DV61	L%UH,DDV180	-PARTIAL REM. BITS 111 ...		31511.40	60		030705.00
	/%UH,DDV181	-DIVISOR BITS 10100 ...		31512.41	E0		030705.40
	CT0110%BU,48H,DDV182+.12,68			31513.14	80	060042.15 70	030706.00
	SIC,SEN			1310.00	80		030707.00
	BRGZ,SERS			1304.35	42		030707.40
DV62	L%UH,DDV183	-PARTIAL REM. BITS 111 ...		31514.40	60		030710.00
	/%UH,DDV184	-DIVISOR BITS 10101 ...		31515.41	E0		030710.40
	CT0110%BU,48H,DDV185+.12,68			31516.14	80	060042.15 70	030711.00
	SIC,SEN			1310.00	80		030712.00
	BRGZ,SERS			1304.35	42		030712.40
DV63	L%UH,DDV186	-PARTIAL REM. BITS 111 ...		31517.40	60		030713.00
	/%UH,DDV187	-DIVISOR BITS 10110 ...		31520.41	E0		030713.40
	CT0110%BU,48H,DDV188+.12,68			31521.14	80	060042.15 70	030714.00
	SIC,SEN			1310.00	80		030715.00
	BRGZ,SERS			1304.35	42		030715.40
DV64	L%UH,DDV189	-PARTIAL REM. BITS 111 ...		31522.40	60		030716.00
	/%UH,DDV190	-DIVISOR BITS 10111 ...		31523.41	E0		030716.40
	CT0110%BU,48H,DDV191+.12,68			31524.14	80	060042.15 70	030717.00
	SIC,SEN			1310.00	80		030720.00
	BRGZ,SERS			1304.35	42		030720.40
DV65	L%UH,DDV192	-PARTIAL REM. BITS 011 ...		31525.40	60		030721.00
	/%UH,DDV193	-DIVISOR BITS 10000 ...		31526.41	E0		030721.40
	CT0110%BU,48H,DDV194+.12,68			31527.14	80	060042.15 70	030722.00
	SIC,SEN			1310.00	80		030723.00
	BRGZ,SERS			1304.35	42		030723.40
DV66	L%UH,DDV195	-PARTIAL REM. BITS 011 ...		31530.40	60		030724.00
	/%UH,DDV196	-DIVISOR BITS 10001 ...		31531.41	E0		030724.40
	CT0110%BU,48H,DDV197+.12,68			31532.14	80	060042.15 70	030725.00
	SIC,SEN			1310.00	80		030726.00
	BRGZ,SERS			1304.35	42		030726.40
DV67	L%UH,DDV198	-PARTIAL REM. BITS 011 ...		31533.40	60		030727.00
	/%UH,DDV199	-DIVISOR BITS 10010 ...		31534.41	E0		030727.40
	CT0110%BU,48H,DDV200+.12,68			31535.14	80	060042.15 70	030730.00
	SIC,SEN			1310.00	80		030731.00
	BRGZ,SERS			1304.35	42		030731.40
DV68	L%UH,DDV201	-PARTIAL REM. BITS 011 ...		31536.40	60		030732.00
	/%UH,DDV202	-DIVISOR BITS 10011 ...		31537.41	E0		030732.40
	CT0110%BU,48H,DDV203+.12,68			31540.14	80	060042.15 70	030733.00
	SIC,SEN			1310.00	80		030734.00
	BRGZ,SERS			1304.35	42		030734.40
DV69	L%UH,DDV204	-PARTIAL REM. BITS 011 ...		31541.40	60		030735.00
	/%UH,DDV205	-DIVISOR BITS 10100 ...		31542.41	E0		030735.40
	CT0110%BU,48H,DDV206+.12,68			31543.14	80	060042.15 70	030736.00
	SIC,SEN			1310.00	80		030737.00
	BRGZ,SERS			1304.35	42		030737.40
DV70	L%UH,DDV207	-PARTIAL REM. BITS 010 ...		31544.40	60		030740.00
	/%UH,DDV208	-DIVISOR BITS 10010 ...		31545.41	E0		030740.40
	CT0110%BU,48H,DDV209+.12,68			31546.14	80	060042.15 70	030741.00
	SIC,SEN			1310.00	80		030742.00
	BRGZ,SERS			1304.35	42		030742.40
DV71	L%UH,DDV210	-PARTIAL REM. BITS 010 ...		31547.40	60		030743.00
	/%UH,DDV211	-DIVISOR BITS 10011 ...		31550.41	E0		030743.40
	CT0110%BU,48H,DDV212+.12,68			31551.14	80	060042.15 70	030744.00
	SIC,SEN			1310.00	80		030745.00
	BRGZ,SERS			1304.35	42		030745.40
DV72	L%UH,DDV213	-PARTIAL REM. BITS 010 ...		31552.40	60		030746.00
	/%UH,DDV214	-DIVISOR BITS 10100 ...		31553.41	E0		030746.40
	CT0110%BU,48H,DDV215+.12,68			31554.14	80	060042.15 70	030747.00
	SIC,SEN			1310.00	80		030750.00

		BRGZ, SERS		1304.35	42		030750.40
DV73	L%UH, DDV216	-PARTIAL REM BITS 010 ...		31555.40	60		030751.00
	/%UH, DDV217	-DIVISOR BITS 10101 ...		31556.41	E0		030751.40
	CT0110%BU, 48H, DDV218+.12, 68			31557.14	80	060042.15 70	030752.00
	SIC, SEN			1310.00	80		030753.00
		BRGZ, SERS		1304.35	42		030753.40
DV74	L%UH, DDV219	-PARTIAL REM BITS 010 ...		31560.40	60		030754.00
	/%UH, DDV220	-DIVISOR BITS 10110 ...		31561.41	E0		030754.40
	CT0110%BU, 48H, DDV221+.12, 68			31562.14	80	060042.15 70	030755.00
	SIC, SEN			1310.00	80		030756.00
		BRGZ, SERS		1304.35	42		030756.40
DV75	L%UH, DDV222	-PARTIAL REM BITS 010 ...		31563.40	60		030757.00
	/%UH, DDV223	-DIVISOR BITS 10111 ...		31564.41	E0		030757.40
	CT0110%BU, 48H, DDV224+.12, 68			31565.14	80	060042.15 70	030760.00
	SIC, SEN			1310.00	80		030761.00
		BRGZ, SERS		1304.35	42		030761.40
	B, S+1.			30763.10	00		030762.00
	B, DV51			30647.10	00		030762.40
	SIC, SEN0+.32			1311.40	80		030763.00
		B, SSW		1301.10	00		030763.40
DV76	L%UH, DDV225	-PARTIAL REM BITS 010 ...		31566.40	60		030764.00
	/%UH, DDV226	-DIVISOR BITS 11000 ...		31567.41	E0		030764.40
	CT0110%BU, 48H, DDV227+.12, 68			31570.14	80	060042.15 70	030765.00
	SIC, SEN			1310.00	80		030766.00
		BRGZ, SERS		1304.35	42		030766.40
DV77	L%UH, DDV228	-PARTIAL REM BITS 001 ...		31571.40	60		030767.00
	/%UH, DDV229	-DIVISOR BITS 10101 ...		31572.41	E0		030767.40
	CT0110%BU, 48H, DDV230+.12, 68			31573.14	80	060042.15 70	030770.00
	SIC, SEN			1310.00	80		030771.00
		BRGZ, SERS		1304.35	42		030771.40
DV78	L%UH, DDV231	-PARTIAL REM BITS 001 ...		31574.40	60		030772.00
	/%UH, DDV232	-DIVISOR BITS 10110 ...		31575.41	E0		030772.40
	CT0110%BU, 48H, DDV233+.12, 68			31576.14	80	060042.15 70	030773.00
	SIC, SEN			1310.00	80		030774.00
		BRGZ, SERS		1304.35	42		030774.40
DV79	L%UH, DDV234	-PARTIAL REM BITS 001 ...		31577.40	60		030775.00
	/%UH, DDV235	-DIVISOR BITS 10111 ...		31600.41	E0		030775.40
	CT0110%BU, 48H, DDV236+.12, 68			31601.14	80	060042.15 70	030776.00
	SIC, SEN			1310.00	80		030777.00
		BRGZ, SERS		1304.35	42		030777.40
DV80	L%UH, DDV237	-PARTIAL REM BITS 001 ...		31602.40	60		031000.00
	/%UH, DDV238	-DIVISOR BITS 11000 ...		31603.41	E0		031000.40
	CT0110%BU, 48H, DDV239+.12, 68			31604.14	80	060042.15 70	031001.00
	SIC, SEN			1310.00	80		031002.00
		BRGZ, SERS		1304.35	42		031002.40
DV81	L%UH, DDV240	-PARTIAL REM BITS 001 ...		31605.40	60		031003.00
	/%UH, DDV241	-DIVISOR BITS 11001 ...		31606.41	E0		031003.40
	CT0110%BU, 48H, DDV242+.12, 68			31607.14	80	060042.15 70	031004.00
	SIC, SEN			1310.00	80		031005.00
		BRGZ, SERS		1304.35	42		031005.40
DV82	L%UH, DDV243	-PARTIAL REM BITS 001 ...		31610.40	60		031006.00
	/%UH, DDV244	-DIVISOR BITS 11010 ...		31611.41	E0		031006.40
	CT0110%BU, 48H, DDV245+.12, 68			31612.14	80	060042.15 70	031007.00
	SIC, SEN			1310.00	80		031010.00
		BRGZ, SERS		1304.35	42		031010.40
DV83	L%UH, DDV246	-PARTIAL REM BITS 001 ...		31613.40	60		031011.00
	/%UH, DDV247	-DIVISOR BITS 11011 ...		31614.41	E0		031011.40
	CT0110%BU, 48H, DDV248+.12, 68			31615.14	80	060042.15 70	031012.00
	SIC, SEN			1310.00	80		031013.00
		BRGZ, SERS		1304.35	42		031013.40
DV84	L%UH, DDV249	-PARTIAL REM BITS 001 ...		31616.40	60		031014.00
	/%UH, DDV250	-DIVISOR BITS 11100 ...		31617.41	E0		031014.40
	CT0110%BU, 48H, DDV251+.12, 68			31620.14	80	060042.15 70	031015.00
	SIC, SEN			1310.00	80		031016.00
		BRGZ, SERS		1304.35	42		031016.40
DV85	L%UH, DDV252	-PARTIAL REM BITS 001 ...		31621.40	60		031017.00

	/%UH,DDV253	-DIVISOR BITS 11101 ...	31622.41 E0		031017.40
	CT0110%BU,48H,DDV254+.12,68		31623.14 80	060042.15 70	031020.00
	SIC,SEN		1310.00 80		031021.00
	BRGZ,SERS		1304.35 42		031021.40
DV86	L%UH,DDV255	-PARTIAL REM BITS 000 ...	31624.40 60		031022.00
	/%UH,DDV256	-DIVISOR BITS 11000 ...	31625.41 E0		031022.40
	CT0110%BU,48H,DDV257+.12,68		31626.14 80	060042.15 70	031023.00
	SIC,SEN		1310.00 80		031024.00
	BRGZ,SERS		1304.35 42		031024.40
DV87	L%UH,DDV258	-PARTIAL REM BITS 000 ...	31627.40 60		031025.00
	/%UH,DDV259	-DIVISOR BITS 11001 ...	31630.41 E0		031025.40
	CT0110%BU,48H,DDV260+.12,68		31631.14 80	060042.15 70	031026.00
	SIC,SEN		1310.00 80		031027.00
	BRGZ,SERS		1304.35 42		031027.40
DV88	L%UH,DDV261	-PARTIAL REM BITS 000 ...	31632.40 60		031030.00
	/%UH,DDV262	-DIVISOR BITS 11010 ...	31633.41 E0		031030.40
	CT0110%BU,48H,DDV263+.12,68		31634.14 80	060042.15 70	031031.00
	SIC,SEN		1310.00 80		031032.00
	BRGZ,SERS		1304.35 42		031032.40
DV89	L%UH,DDV264	-PARTIAL REM BITS 000 ...	31635.40 60		031033.00
	/%UH,DDV265	-DIVISOR BITS 11011 ...	31636.41 E0		031033.40
	CT0110%BU,48H,DDV266+.12,68		31637.14 80	060042.15 70	031034.00
	SIC,SEN		1310.00 80		031035.00
	BRGZ,SERS		1304.35 42		031035.40
DV90	L%UH,DDV267	-PARTIAL REM BITS 000 ...	31640.40 60		031036.00
	/%UH,DDV268	-DIVISOR BITS 11100 ...	31641.41 E0		031036.40
	CT0110%BU,48H,DDV269+.12,68		31642.14 80	060042.15 70	031037.00
	SIC,SEN		1310.00 80		031040.00
	BRGZ,SERS		1304.35 42		031040.40
DV91	L%UH,DDV270	-PARTIAL REM BITS 000 ...	31643.40 60		031041.00
	/%UH,DDV271	-DIVISOR BITS 11101 ...	31644.41 E0		031041.40
	CT0110%BU,48H,DDV272+.12,68		31645.14 80	060042.15 70	031042.00
	SIC,SEN		1310.00 80		031043.00
	BRGZ,SERS		1304.35 42		031043.40
DV92	L%UH,DDV273	-PARTIAL REM BITS 000 ...	31646.40 60		031044.00
	/%UH,DDV274	-DIVISOR BITS 11110 ...	31647.41 E0		031044.40
	CT0110%BU,48H,DDV275+.12,68		31650.14 80	060042.15 70	031045.00
	SIC,SEN		1310.00 80		031046.00
	BRGZ,SERS		1304.35 42		031046.40
DV93	L%UH,DDV276	-PARTIAL REM BITS 000 ...	31651.40 60		031047.00
	/%UH,DDV277	-DIVISOR BITS 11111 ...	31652.41 E0		031047.40
	CT0110%BU,48H,DDV278+.12,68		31653.14 80	060042.15 70	031050.00
	SIC,SEN		1310.00 80		031051.00
	BRGZ,SERS		1304.35 42		031051.40
DV94	L%UH,DDV279	-PARTIAL REM BITS 011 ...	31654.40 60		031052.00
	/%UH,DDV280	-DIVISOR BITS 10101 ...	31655.41 E0		031052.40
	CT0110%BU,48H,DDV281+.12,68		31656.14 80	060042.15 70	031053.00
	SIC,SEN		1310.00 80		031054.00
	BRGZ,SERS		1304.35 42		031054.40
DV95	L%UH,DDV282	-PARTIAL REM BITS 011 ...	31657.40 60		031055.00
	/%UH,DDV283	-DIVISOR BITS 10110 ...	31660.41 E0		031055.40
	CT0110%BU,48H,DDV284+.12,68		31661.14 80	060042.15 70	031056.00
	SIC,SEN		1310.00 80		031057.00
	BRGZ,SERS		1304.35 42		031057.40
DV96	L%UH,DDV285	-PARTIAL REM BITS 011 ...	31662.40 60		031060.00
	/%UH,DDV286	-DIVISOR BITS 10111 ...	31663.41 E0		031060.40
	CT0110%BU,48H,DDV287+.12,68		31664.14 80	060042.15 70	031061.00
	SIC,SEN		1310.00 80		031062.00
	BRGZ,SERS		1304.35 42		031062.40
DV97	L%UH,DDV288	-PARTIAL REM BITS 011 ...	31665.40 60		031063.00
	/%UH,DDV289	-DIVISOR BITS 11000 ...	31666.41 E0		031063.40
	CT0110%BU,48H,DDV290+.12,68		31667.14 80	060042.15 70	031064.00
	SIC,SEN		1310.00 80		031065.00
	BRGZ,SERS		1304.35 42		031065.40
DV98	L%UH,DDV291	-PARTIAL REM BITS 011 ...	31670.40 60		031066.00
	/%UH,DDV292	-DIVISOR BITS 11001 ...	31671.41 E0		031066.40

			1304.35 42	031070.00
	L%UH,DDV294	-PARTIAL REM BITS 011 ...	31673.40 60	031070.40
	/%UH,DDV295	-DIVISOR BITS 11010 ...	31674.41 E0	031071.00
	CT0110%BU,48H,DDV296+.12,68		31675.14 80	031071.40
	SIC,SEN		1310.00 80	031072.00
	BRGZ,SERS		1304.35 42	031073.00
DV100	L%UH,DDV297	-PARTIAL REM BITS 011 ...	31676.40 60	031073.40
	/%UH,DDV298	-DIVISOR BITS 11011 ...	31677.41 E0	031074.00
	CT0110%BU,48H,DDV299+.12,68		31700.14 80	031074.40
	SIC,SEN		1310.00 80	031075.00
	BRGZ,SERS		1304.35 42	031076.00
	B,s+1.		31100.10 00	031076.40
	B,DV76		30714.10 00	031077.00
	SIC,SEN0+.32		1311.40 80	031077.40
	B,SSW		1311.10 00	031100.00
DV101	L%UH,DDV300	-PARTIAL REM BITS 011 ...	31701.40 60	031100.40
	/%UH,DDV301	-DIVISOR BITS 11100 ...	31702.41 E0	031101.00
	CT0110%BU,48H,DDV302+.12,68		31703.14 80	031101.40
	SIC,SEN		1310.00 80	031102.00
	BRGZ,SERS		1304.35 42	031102.40
DV102	L%UH,DDV303	-PARTIAL REM BITS 011 ...	31704.40 60	031103.00
	/%UH,DDV304	-DIVISOR BITS 11101 ...	31705.41 E0	031103.40
	CT0110%BU,48H,DDV305+.12,68		31706.14 80	031104.00
	SIC,SEN		1310.00 80	031104.40
	BRGZ,SERS		1304.35 42	031105.00
DV103	L%UH,DDV306	-PARTIAL REM BITS 011	31707.40 60	031105.40
	/%UH,DDV307	-DIVISOR BITS 11110 ...	31710.41 E0	031106.00
	CT0110%BU,48H,DDV308+.12,68		31711.14 80	031106.40
	SIC,SEN		1310.00 80	031107.00
	BRGZ,SERS		1304.35 42	031107.40
DV104	L%UH,DDV309	-PARTIAL REM BITS 011 ...	31712.40 60	031110.00
	/%UH,DDV310	-DIVISOR BITS 11111 ...	31713.41 E0	031110.40
	CT0110%BU,48H,DDV311+.12,68		31714.14 80	031111.00
	SIC,SEN		1310.00 80	031111.40
	BRGZ,SERS		1304.35 42	031112.00
DV105	L%UH,DDV312	-PARTIAL REM BITS 010 ...	31715.40 60	031112.40
	/%UH,DDV313	-DIVISOR BITS 11001 ...	31716.41 E0	031113.00
	CT0110%BU,48H,DDV314+.12,68		31717.14 80	031113.40
	SIC,SEN		1310.00 80	031114.00
	BRGZ,SERS		1304.35 42	031114.40
DV106	L%UH,DDV315	-PARTIAL REM BITS 10000...	31720.40 60	031115.00
	/%UH,DDV316	-DIVISOR BITS 11010 ...	31721.41 E0	031115.40
	CT0110%BU,48H,DDV317+.12,68		31722.14 80	031116.00
	SIC,SEN		1310.00 80	031116.40
	BRGZ,SERS		1304.35 42	031117.00
DV107	L%UH,DDV318	-PARTIAL REM BITS 010 ...	31723.40 60	031117.40
	/%UH,DDV319	-DIVISOR BITS 11011 ...	31724.41 E0	031120.00
	CT0110%BU,48H,DDV320+.12,68		31725.14 80	031120.40
	SIC,SEN		1310.00 80	031121.00
	BRGZ,SERS		1304.35 42	031122.00
DV108	L%UH,DDV321	-PARTIAL REM BITS 010 ...	31726.40 60	031122.40
	/%UH,DDV322	-DIVISOR BITS 11100 ...	31727.41 E0	031123.00
	CT0110%BU,48H,DDV323+.12,68		31730.14 80	031123.40
	SIC,SEN		1310.00 80	031124.00
	BRGZ,SERS		1304.35 42	031125.00
DV109	L%UH,DDV324	-PARTIAL REM BITS 010 ...	31731.40 60	031125.40
	/%UH,DDV325	-DIVISOR BITS 11101 ...	31732.41 E0	031126.00
	CT0110%BU,48H,DDV326+.12,68		31733.14 80	031126.40
	SIC,SEN		1310.00 80	031127.00
	BRGZ,SERS		1304.35 42	031130.00
DV110	L%UH,DDV327	-PARTIAL REM BITS 010 ...	31734.40 60	031130.40
	/%UH,DDV328	-DIVISOR BITS 11110 ...	31735.41 E0	031131.00
	CT0110%BU,48H,DDV329+.12,68		31736.14 80	031131.40
	SIC,SEN		1310.00 80	031132.00
				031133.00
				031133.40
				031134.00
				031134.40
				031135.00
				031135.40
				031136.00

		BRGZ,SERS		1304.35	42		031136.40
DV111	L%UH,DDV330	-PARTIAL REM BITS 010 ...		31737.40	60		031137.00
	/%UH,DDV331	-DIVISOR BITS 11111 ...		31740.41	E0		031137.40
	CT0110%BU,48H,DDV332+.12,68			31741.14	80	060042.15 70	031140.00
	SIC,SEN			1310.00	80		031141.00
		BRGZ,SERS		1304.35	42		031141.40
DV112	L%UH,DDV333	-PARTIAL REM BITS 001 ...		31742.40	60		031142.00
	/%UH,DDV334	-DIVISOR BITS 11110 ...		31743.41	E0		031142.40
	CT0110%BU,48H,DDV335+.12,68			31744.14	80	060042.15 70	031143.00
	SIC,SEN			1310.00	80		031144.00
		BRGZ,SERS		1304.35	42		031144.40
DV113	L%UH,DDV336	-PARTIAL REM BITS 001 ...		31745.40	60		031145.00
	/%UH,DDV337	-DIVISOR BITS 11111 ...		31746.41	E0		031145.40
	CT0110%BU,48H,DDV338+.12,68			31747.14	80	060042.15 70	031146.00
	SIC,SEN			1310.00	80		031147.00
		BRGZ,SERS		1304.35	42		031147.40
DV114	L%UH,DDV339	-PARTIAL REM BITS 010 ...		31750.40	60		031150.00
	/%UH,DDV340	-DIVISOR BITS 10000 ...		31751.41	E0		031150.40
	CT0110%BU,48H,DDV341+.12,68			31752.14	80	060042.15 70	031151.00
	SIC,SEN			1310.00	80		031152.00
		BRGZ,SERS		1304.35	42		031152.40
DV115	L%UH,DDV342	-PARTIAL REM BITS 010 ...		31753.40	60		031153.00
	/%UH,DDV343	-DIVISOR BITS 10001 ...		31754.41	E0		031153.40
	CT0110%BU,48H,DDV344+.12,68			31755.14	80	060042.15 70	031154.00
	SIC,SEN			1310.00	80		031155.00
		BRGZ,SERS		1304.35	42		031155.40
DV116	L%UH,DDV345	-PARTIAL REM BITS 001 ...		31756.40	60		031156.00
	/%UH,DDV346	-DIVISOR BITS 10000 ...		31757.41	E0		031156.40
	CT0110%BU,48H,DDV347+.12,68			31760.14	80	060042.15 70	031157.00
	SIC,SEN			1310.00	80		031160.00
		BRGZ,SERS		1304.35	42		031160.40
DV117	L%UH,DDV348	-PARTIAL REM BITS 001 ...		31761.40	60		031161.00
	/%UH,DDV349	-DIVISOR BITS 10001 ...		31762.41	E0		031161.40
	CT0110%BU,48H,DDV350+.12,68			31763.14	80	060042.15 70	031162.00
	SIC,SEN			1310.00	80		031163.00
		BRGZ,SERS		1304.35	42		031163.40
DV118	L%UH,DDV351	-PARTIAL REM BITS 001 ...		31764.40	60		031164.00
	/%UH,DDV352	-DIVISOR BITS 10010 ...		31765.41	E0		031164.40
	CT0110%BU,48H,DDV353+.12,68			31766.14	80	060042.15 70	031165.00
	SIC,SEN			1310.00	80		031166.00
		BRGZ,SERS		1304.35	42		031166.40
DV119	L%UH,DDV354	-PARTIAL REM BITS 001 ...		31767.40	60		031167.00
	/%UH,DDV355	-DIVISOR BITS 10011 ...		31770.41	E0		031167.40
	CT0110%BU,48H,DDV356+.12,68			31771.14	80	060042.15 70	031170.00
	SIC,SEN			1310.00	80		031171.00
		BRGZ,SERS		1304.35	42		031171.40
DV120	L%UH,DDV357	-PARTIAL REM BITS 001 ...		31772.40	60		031172.00
	/%UH,DDV358	-DIVISOR BITS 10100 ...		31773.41	E0		031172.40
	CT0110%BU,48H,DDV359+.12,68			31774.14	80	060042.15 70	031173.00
	SIC,SEN			1310.00	80		031174.00
		BRGZ,SERS		1304.35	42		031174.40
DV121	L%UH,DDV360	-PARTIAL REM BITS 000 ...		31775.40	60		031175.00
	/%UH,DDV361	-DIVISOR BITS 10000 ...		31776.41	E0		031175.40
	CT0110%BU,48H,DDV362+.12,68			31777.14	80	060042.15 70	031176.00
	SIC,SEN			1310.00	80		031177.00
		BRGZ,SERS		1304.35	42		031177.40
DV122	L%UH,DDV363	-PARTIAL REM BITS 000 ...		32000.40	60		031200.00
	/%UH,DDV364	-DIVISOR BITS 10001 ...		32001.41	E0		031200.40
	CT0110%BU,48H,DDV365+.12,68			32002.14	80	060042.15 70	031201.00
	SIC,SEN			1310.00	80		031202.00
		BRGZ,SERS		1304.35	42		031202.40
DV123	L%UH,DDV366	-PARTIAL REM BITS 000 ...		32003.40	60		031203.00
	/%UH,DDV367	-DIVISOR BITS 10010 ...		32004.41	E0		031203.40
	CT0110%BU,48H,DDV368+.12,68			32005.14	80	060042.15 70	031204.00
	SIC,SEN			1310.00	80		031205.00
		BRGZ,SERS		1304.35	42		031205.40

21
13-2021

DV124	L%UH,DDV369 /%UH,DDV370	-PARTIAL REM BITS 000 ... -DIVISOR BITS 10011 ...	32006.40 60 32007.41 E0	031206.00 031206.40
	CT0110%BU,48H,DDV371+.12,68 SIC,SEN		32010.14 80 060042.15 70 1310.00 80 1304.35 42	031207.00 031210.00 031210.40
DV125	BRGZ,SERS L%UH,DDV372 /%UH,DDV373	-PARTIAL REM BITS 000 ... -DIVISOR BITS 10100 ...	32011.40 60 32012.41 E0	031211.00 031211.40
	CT0110%BU,48H,DDV374+.12,68 SIC,SEN		32013.14 80 060042.15 70 1310.00 80 1304.35 42	031212.00 031213.00 031213.40
DV126	BRGZ,SERS L%UH,DDV375 /%UH,DDV376	-PARTIAL REM BITS 000 ... -DIVISOR BITS 10101 ...	32014.40 60 32015.41 E0	031214.00 031214.40
	CT0110%BU,48H,DDV377+.12,68 SIC,SEN		32016.14 80 060042.15 70 1310.00 80 1304.35 42	031215.00 031216.00 031216.40
DV127	BRGZ,SERS L%UH,DDV378 /%UH,DDV379	-PARTIAL REM BITS 000 ... -DIVISOR BITS 10110 ...	32017.40 60 32020.41 E0	031217.00 031217.40
	CT0110%BU,48H,DDV380+.12,68 SIC,SEN		32021.14 80 060042.15 70 1310.00 80 1304.35 42	031220.00 031221.00 031221.40
DV128	BRGZ,SERS L%UH,DDV381 /%UH,DDV382	-PARTIAL REM BITS 000 ... -DIVISOR BITS 10111 ...	32022.40 60 32023.41 E0	031222.00 031222.40
	CT0110%BU,48H,DDV383+.12,68 SIC,SEN		32024.14 80 060042.15 70 1310.00 80 1304.35 42	031223.00 031224.00 031224.40
	BRGZ,SERS BD,DVLST1		32031.04 00	031225.00
	CNOP		0.30 00	031225.40
DDV1	%8HDD%BUH, 0 000 120 000 000 000 000 000		000012000000000000000000	031226.00
DDV2	%8HDD%BUH, 0 000 100 000 000 000 000 000		000010000000000000000000	031227.00
DDV3	%8HDD%BUH, 0 000 106 100 000 000 000 000		000010610000000000000000	031230.00
DDV4	%8HDD%BUH, 0 000 104 000 000 000 000 000		000010400000000000000000	031231.00
DDV5	%8HDD%BUH, 0 000 102 000 000 000 000 000		000010200000000000000000	031232.00
DDV6	%8HDD%BUH, 0 000 110 000 000 000 000 000		000011000000000000000000	031233.00
DDV7	%8HDD%BUH, 0 000 114 400 000 000 000 000		000011440000000000000000	031234.00
DDV8	%8HDD%BUH, 0 000 104 000 000 000 000 000		000010400000000000000000	031235.00
DDV9	%8HDD%BUH, 0 000 116 300 000 000 000 000		000011630000000000000000	031236.00
DDV10	%8HDD%BUH, 0 000 114 000 000 000 000 000		000011400000000000000000	031237.00
DDV11	%8HDD%BUH, 0 000 102 000 000 000 000 000		000010200000000000000000	031240.00
DDV12	%8HDD%BUH, 0 000 133 200 000 000 000 000		000013320000000000000000	031241.00
DDV13	%8HDD%BUH, 0 000 120 000 000 000 000 000		000012000000000000000000	031242.00
DDV14	%8HDD%BUH, 0 000 111 000 000 000 000 000		000011100000000000000000	031243.00
DDV15	%8HDD%BUH, 0 000 126 230 000 000 000 000		000012623000000000000000	031244.00
DDV16	%8HDD%BUH, 0 000 124 000 000 000 000 000		000012400000000000000000	031245.00
DDV17	%8HDD%BUH, 0 000 101 600 000 000 000 000		000010160000000000000000	031246.00
DDV18	%8HDD%BUH, 0 000 116 530 000 000 000 000		000011653000000000000000	031247.00
DDV19	%8HDD%BUH, 0 000 114 000 000 000 000 000		000011400000000000000000	031250.00
DDV20	%8HDD%BUH, 0 000 102 200 000 000 000 000		000010220000000000000000	031251.00
DDV21	%8HDD%BUH, 0 000 132 000 000 000 000 000		000013200000000000000000	031252.00
DDV22	%8HDD%BUH, 0 000 120 000 000 000 000 000		000012000000000000000000	031253.00
DDV23	%8HDD%BUH, 0 000 110 000 000 000 000 000		000011000000000000000000	031254.00
DDV24	%8HDD%BUH, 0 000 126 624 000 000 000 000		000012662400000000000000	031255.00
DDV25	%8HDD%BUH, 0 000 124 000 000 000 000 000		000012400000000000000000	031256.00
DDV26	%8HDD%BUH, 0 000 102 100 000 000 000 000		000010210000000000000000	031257.00
DDV27	%8HDD%BUH, 0 000 157 300 000 000 000 000		000015730000000000000000	031260.00
DDV28	%8HDD%BUH, 0 000 130 000 000 000 000 000		000013000000000000000000	031261.00
DDV29	%8HDD%BUH, 0 000 121 000 000 000 000 000		000012100000000000000000	031262.00
DDV30	%8HDD%BUH, 0 000 163 000 000 000 000 000		000016300000000000000000	031263.00
DDV31	%8HDD%BUH, 0 000 134 000 000 000 000 000		000013400000000000000000	031264.00
DDV32	%8HDD%BUH, 0 000 120 000 000 000 000 000		000012000000000000000000	031265.00
DDV33	%8HDD%BUH, 0 000 165 000 000 000 000 000		000016500000000000000000	031266.00
DDV34	%8HDD%BUH, 0 000 140 000 000 000 000 000		000014000000000000000000	031267.00
DDV35	%8HDD%BUH, 0 000 116 000 000 000 000 000		000011600000000000000000	031270.00
DDV36	%8HDD%BUH, 0 000 156 200 000 000 000 000		000015620000000000000000	031271.00
DDV37	%8HDD%BUH, 0 000 124 000 000 000 000 000		000012400000000000000000	031272.00
DDV38	%8HDD%BUH, 0 000 124 000 000 000 000 000		000012400000000000000000	031273.00
DDV39	%8HDD%BUH, 0 000 160 600 000 000 000 000		000016060000000000000000	031274.00

DDV40	%8DD%BUH, 0 000 130 000 000 000 000 000	000013000000000000000000	031275.00
DDV41	%8DD%BUH, 0 000 122 000 000 000 000 000	000012200000000000000000	031276.00
DDV42	%8DD%BUH, 0 000 165 700 000 000 000 000	000016570000000000000000	031277.00
DDV43	%8DD%BUH, 0 000 134 000 000 000 000 000	000013400000000000000000	031300.00
DDV44	%8DD%BUH, 0 000 122 000 000 000 000 000	000012200000000000000000	031301.00
DDV45	%8DD%BUH, 0 000 173 000 000 000 000 000	000017300000000000000000	031302.00
DDV46	%8DD%BUH, 0 000 140 000 000 000 000 000	000014000000000000000000	031303.00
DDV47	%8DD%BUH, 0 000 122 000 000 000 000 000	000012200000000000000000	031304.00
DDV48	%8DD%BUH, 0 000 160 400 000 000 000 000	000016040000000000000000	031305.00
DDV49	%8DD%BUH, 0 000 144 000 000 000 000 000	000014400000000000000000	031306.00
DDV50	%8DD%BUH, 0 000 110 000 000 000 000 000	000011000000000000000000	031307.00
DDV51	%8DD%BUH, 0 000 165 640 000 000 000 000	000016564000000000000000	031310.00
DDV52	%8DD%BUH, 0 000 150 000 000 000 000 000	000015000000000000000000	031311.00
DDV53	%8DD%BUH, 0 000 110 400 000 000 000 000	000011040000000000000000	031312.00
DDV54	%8DD%BUH, 0 000 171 730 000 000 000 000	000017173000000000000000	031313.00
DDV55	%8DD%BUH, 0 000 154 000 000 000 000 000	000015400000000000000000	031314.00
DDV56	%8DD%BUH, 0 000 110 200 000 000 000 000	000011020000000000000000	031315.00
DDV57	%8DD%BUH, 0 000 174 540 000 000 000 000	000017454000000000000000	031316.00
DDV58	%8DD%BUH, 0 000 160 000 000 000 000 000	000016000000000000000000	031317.00
DDV59	%8DD%BUH, 0 000 107 200 000 000 000 000	000010720000000000000000	031320.00
DDV60	%8DD%BUH, 0 000 172 002 000 000 000 000	000017200200000000000000	031321.00
DDV61	%8DD%BUH, 0 000 164 000 000 000 000 000	000016400000000000000000	031322.00
DDV62	%8DD%BUH, 0 000 103 240 000 000 000 000	000010324000000000000000	031323.00
DDV63	%8DD%BUH, 0 000 176 000 000 000 000 000	000017600000000000000000	031324.00
DDV64	%8DD%BUH, 0 000 140 000 000 000 000 000	000014000000000000000000	031325.00
DDV65	%8DD%BUH, 0 000 124 000 000 000 000 000	000012400000000000000000	031326.00
DDV66	%8DD%BUH, 0 000 162 040 000 000 000 000	000016204000000000000000	031327.00
DDV67	%8DD%BUH, 0 000 144 000 000 000 000 000	000014400000000000000000	031330.00
DDV68	%8DD%BUH, 0 000 111 000 000 000 000 000	000011100000000000000000	031331.00
DDV69	%8DD%BUH, 0 000 166 500 000 000 000 000	000016650000000000000000	031332.00
DDV70	%8DD%BUH, 0 000 150 000 000 000 000 000	000015000000000000000000	031333.00
DDV71	%8DD%BUH, 0 000 111 000 000 000 000 000	000011100000000000000000	031334.00
DDV72	%8DD%BUH, 0 000 172 260 000 000 000 000	000017226000000000000000	031335.00
DDV73	%8DD%BUH, 0 000 154 000 000 000 000 000	000015400000000000000000	031336.00
DDV74	%8DD%BUH, 0 000 110 400 000 000 000 000	000011040000000000000000	031337.00
DDV75	%8DD%BUH, 0 000 176 340 000 000 000 000	000017634000000000000000	031340.00
DDV76	%8DD%BUH, 0 000 160 000 000 000 000 000	000016000000000000000000	031341.00
DDV77	%8DD%BUH, 0 000 110 200 000 000 000 000	000011020000000000000000	031342.00
DDV78	%8DD%BUH, 0 000 173 550 000 000 000 000	000017355000000000000000	031343.00
DDV79	%8DD%BUH, 0 000 164 000 000 000 000 000	000016400000000000000000	031344.00
DDV80	%8DD%BUH, 0 000 104 200 000 000 000 000	000010420000000000000000	031345.00
DDV81	%8DD%BUH, 0 000 177 760 000 000 000 000	000017776000000000000000	031346.00
DDV82	%8DD%BUH, 0 000 170 000 000 000 000 000	000017000000000000000000	031347.00
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DDV319	%8HDD%BUH,	0	000	154	000	000	000	000	000	0000154000000000000000	031724.00
DDV320	%8HDD%BUH,	0	000	114	000	000	000	000	000	0000114000000000000000	031725.00
DDV321	%8HDD%BUH,	0	000	106	000	000	000	000	000	0000106000000000000000	031726.00
DDV322	%8HDD%BUH,	0	000	160	000	000	000	000	000	0000160000000000000000	031727.00
DDV323	%8HDD%BUH,	0	000	120	000	000	000	000	000	0000120000000000000000	031730.00
DDV324	%8HDD%BUH,	0	000	104	700	000	000	000	000	0000104700000000000000	031731.00
DDV325	%8HDD%BUH,	0	000	164	000	000	000	000	000	0000164000000000000000	031732.00
DDV326	%8HDD%BUH,	0	000	114	000	000	000	000	000	0000114000000000000000	031733.00
DDV327	%8HDD%BUH,	0	000	116	600	000	000	000	000	0000116600000000000000	031734.00
DDV328	%8HDD%BUH,	0	000	170	000	000	000	000	000	0000170000000000000000	031735.00
DDV329	%8HDD%BUH,	0	000	124	000	000	000	000	000	0000124000000000000000	031736.00
DDV330	%8HDD%BUH,	0	000	121	300	000	000	000	000	0000121300000000000000	031737.00
DDV331	%8HDD%BUH,	0	000	174	000	000	000	000	000	0000174000000000000000	031740.00
DDV332	%8HDD%BUH,	0	000	124	000	000	000	000	000	0000124000000000000000	031741.00
DDV333	%8HDD%BUH,	0	000	103	400	000	000	000	000	0000103400000000000000	031742.00
DDV334	%8HDD%BUH,	0	000	170	000	000	000	000	000	0000170000000000000000	031743.00
DDV335	%8HDD%BUH,	0	000	110	000	000	000	000	000	0000110000000000000000	031744.00
DDV336	%8HDD%BUH,	0	000	143	230	000	000	000	000	0000143230000000000000	031745.00
DDV337	%8HDD%BUH,	0	000	174	000	000	000	000	000	0000174000000000000000	031746.00
DDV338	%8HDD%BUH,	0	000	146	400	000	000	000	000	0000146400000000000000	031747.00
DDV339	%8HDD%BUH,	0	000	020	000	000	000	000	000	0000020000000000000000	031750.00
DDV340	%8HDD%BUH,	0	000	100	000	000	000	000	000	0000100000000000000000	031751.00
DDV341	%8HDD%BUH,	0	000	040	000	000	000	000	000	0000040000000000000000	031752.00
DDV342	%8HDD%BUH,	0	000	031	400	000	000	000	000	0000031400000000000000	031753.00
DDV343	%8HDD%BUH,	0	000	104	000	000	000	000	000	0000104000000000000000	031754.00
DDV344	%8HDD%BUH,	0	000	060	000	000	000	000	000	0000060000000000000000	031755.00
DDV345	%8HDD%BUH,	0	000	010	000	000	000	000	000	0000010000000000000000	031756.00
DDV346	%8HDD%BUH,	0	000	100	000	000	000	000	000	0000100000000000000000	031757.00
DDV347	%8HDD%BUH,	0	000	020	000	000	000	000	000	0000020000000000000000	031760.00
DDV348	%8HDD%BUH,	0	000	021	000	000	000	000	000	0000021000000000000000	031761.00
DDV349	%8HDD%BUH,	0	000	104	000	000	000	000	000	0000104000000000000000	031762.00
DDV350	%8HDD%BUH,	0	000	040	000	000	000	000	000	0000040000000000000000	031763.00
DDV351	%8HDD%BUH,	0	000	022	000	000	000	000	000	0000022000000000000000	031764.00
DDV352	%8HDD%BUH,	0	000	110	000	000	000	000	000	0000110000000000000000	031765.00
DDV353	%8HDD%BUH,	0	000	040	000	000	000	000	000	0000040000000000000000	031766.00
DDV354	%8HDD%BUH,	0	000	030	740	000	000	000	000	0000030740000000000000	031767.00
DDV355	%8HDD%BUH,	0	000	114	000	000	000	000	000	0000114000000000000000	031770.00
DDV356	%8HDD%BUH,	0	000	052	000	000	000	000	000	0000052000000000000000	031771.00
DDV357	%8HDD%BUH,	0	000	031	000	000	000	000	000	0000031000000000000000	031772.00
DDV358	%8HDD%BUH,	0	000	120	000	000	000	000	000	0000120000000000000000	031773.00
DDV359	%8HDD%BUH,	0	000	050	000	000	000	000	000	0000050000000000000000	031774.00
DDV360	%8HDD%BUH,	0	000	004	000	000	000	000	000	0000004000000000000000	031775.00
DDV361	%8HDD%BUH,	0	000	100	000	000	000	000	000	0000100000000000000000	031776.00
DDV362	%8HDD%BUH,	0	000	010	000	000	000	000	000	0000010000000000000000	031777.00
DDV363	%8HDD%BUH,	0	000	010	400	000	000	000	000	0000010400000000000000	032000.00
DDV364	%8HDD%BUH,	0	000	104	000	000	000	000	000	0000104000000000000000	032001.00
DDV365	%8HDD%BUH,	0	000	020	000	000	000	000	000	0000020000000000000000	032002.00
DDV366	%8HDD%BUH,	0	000	015	400	000	000	000	000	0000015400000000000000	032003.00
DDV367	%8HDD%BUH,	0	000	110	000	000	000	000	000	0000110000000000000000	032004.00
DDV368	%8HDD%BUH,	0	000	030	000	000	000	000	000	0000030000000000000000	032005.00
DDV369	%8HDD%BUH,	0	000	016	200	000	000	000	000	0000016200000000000000	032006.00

DDV370	%8HDD%BUH, 0 000 114 000 000 000 000 000	000011400000000000000000	032007.00
DDV371	%8HDD%BUH, 0 000 030 000 000 000 000 000	000003000000000000000000	032010.00
DDV372	%8HDD%BUH, 0 000 024 000 000 000 000 000	000002400000000000000000	032011.00
DDV373	%8HDD%BUH, 0 000 120 000 000 000 000 000	000012000000000000000000	032012.00
DDV374	%8HDD%BUH, 0 000 040 000 000 000 000 000	000004000000000000000000	032013.00
DDV375	%8HDD%BUH, 0 000 030 740 000 000 000 000	000003074000000000000000	032014.00
DDV376	%8HDD%BUH, 0 000 124 000 000 000 000 000	000012400000000000000000	032015.00
DDV377	%8HDD%BUH, 0 000 046 000 000 000 000 000	000004600000000000000000	032016.00
DDV378	%8HDD%BUH, 0 000 033 400 000 000 000 000	000003340000000000000000	032017.00
DDV379	%8HDD%BUH, 0 000 120 000 000 000 000 000	000013000000000000000000	032020.00
DDV380	%8HDD%BUH, 0 000 050 000 000 000 000 000	000005000000000000000000	032021.00
DDV381	%8HDD%BUH, 0 000 042 400 000 000 000 000	000004240000000000000000	032022.00
DDV382	%8HDD%BUH, 0 000 134 000 000 000 000 000	000013400000000000000000	032023.00
DDV383	%8HDD%BUH, 0 000 060 000 000 000 000 000	000006000000000000000000	032024.00
DVLST	NOP	0.30 00	032025.00
	NOP	0.30 00	032025.40
	CNOP		
	NOP	0.30 00	032026.00
	NOP	0.30 00	032026.40
	NOP	0.30 00	032027.00
	NOP	0.30 00	032027.40
	NOP	0.30 00	032030.00
	NOP	0.30 00	032030.40
DVLST1	BD,S+.32	32031.44 00	032031.00
	CNOP	0.30 00	032031.40
	B,S+1.	32033.10 00	032032.00
	B,DV101	31101.10 00	032032.40
	SIC,SENO+.32	1311.40 80	032033.00
	B,SSW	1301.10 00	032033.40

-THIS ROUTINE GENERATES A PSEUDO-RANDOM NUMBER
 -WHOSE SQUARE ROOT IS TAKEN BY A FP SRT INSTRUCTION.
 -USING VFL SUBTRACT, THE ROOT OF THE SAME NUMBER IS
 -FORMED AND COMPARED WITH THE FP ROOT. IF THEY ARE
 -NOT THE SAME, THE RADICAND IS STORED AT SYMBOLIC LOCATION
 -RORRE. THE FP ROOT IS IN THE NEXT LOCATION, AND THE
 -VFL ROOT IS IN THE NEXT. 64000 ITERATIONS ARE DONE.
 - IF THE PROGRAM DISCOVERS AN SRT ERROR, THE OPERATOR
 -CAN FORCE THE SRT PROGRAM TO LOOP WITHOUT ADVANCING
 -TO NEW OPERANDS BY PUTTING PANEL KEY 49 DOWN.

	BZB,SMB+,47,ROSA2		4.57 80 032122.34 00	032034.00
NIGED	LX,SX3,TRS1		32115.06 10	032035.00
	L%BU,TRS2		32116.00 80 000000.20 50	032035.40
	ST%BU,RRND		32107.00 80 000000.20 D0	032036.40
TXEN	BZB,SMB+,47,ROSA2		4.57 80 032122.34 00	032037.40
	L%BU,60,RRND		32107.00 80 074000.20 50	032040.40
	*%BU,48,RRND		32107.00 80 060000.21 90	032041.40
	ST%BU,60,RRND,50	-THE RADICAND FOR THIS PASS IS	32107.00 80 074031.20 D0	032042.40
	L%BU,60,RRND,68	-NOW IN RRND	32107.00 80 074042.20 50	032043.40
	SRT%U,RRND+1,		32110.46 E0	032044.40
	DL%U,RRND		32107.44 60	032045.00
	BZB,8.10,TKRT	-IS RADICAND EXPONENT EVEN	10.12 80 032052.34 00	032045.40
	BB,8.0,HM1-1.0		10.00 80 032051.34 02	032046.40
	E+I%U,1	-ADD ONE TO THE EXPONENT	200.47 60	032047.40
	C%101%BU,10,8.,118	-HALVE THE EXPONENT	10.00 80 012072.46 70	032050.00
	CM%101%BU,12,PRRT,116	-PRESERVE THE COMPUTED ROOT EXPONENT	32111.00 80 014072.12 F0	032051.00
HM1	S%FR%U,1	-EXP IS ODD,ADJUST THE FRACTION	200.77 20	032052.00
	B,HM2		32055.10 00	032052.40
TKRT	BB,8.0,S+2.	-IS THE EXPONENT FLAG ON	10.00 80 032055.34 02	032053.00
	CO%11%BU,10,8.,117	-NO FLAG,SO HALVE THE EXPONENT	10.00 80 012072.46 70	032054.00
HM2	CM%101%BU,12,PRRT,116		32111.00 80 014072.12 F0	032055.00
	CO%20%BU,12,TKRT,116		32053.00 80 014072.00 70	032056.00
	BBZ,10.4,S+1.	-MAKE ACC POS	12.04 80 032060.34 06	032057.00
	LX,SX1,TRS2		32117.02 10	032060.00
	LV,SX2,TRS5		32120.04 30	032060.40
	LV,SX3,TRS1		32115.06 30	032061.00
	CM%300%BU,48,PRRT+612	-INITIALIZE ROOT FRACTION TO 0	32111.14 80 060000.00 F0	032061.40
	BB1,PRRT+.12,S+1.		32111.15 80 032062.74 0E	032062.40
PLRNI	-%BU,48,PRRT+.12,69%SX2H	-TRIAL SUBTRACTION OF PARTIAL ROOT	32111.14 80 060042.70 12	032063.40
	BRN,OVDRAW		32073.75 C2	032064.40
	BB1,PRRT+.11%SX3H,S+1.	-NO OVERDRAW, THIS ROOT BIT IS 1	32111.13 83 032066.34 0E	032065.00
	BBZ,PRRT+.12%SX3H,S+1.		32111.14 83 032067.34 06	032066.00
PUTES	BB1,PRRT+.13%SX1H,S+1.	-SETS UP NEXT TRIAL ROOT	32111.15 81 032070.34 0E	032067.00
	V+,SX1,TRS2		32117.02 B0	032070.00
	V+,SX2,TRS5		32120.04 B0	032070.40
	V+,SX3,TRS1		32115.06 B0	032071.00
	CB,SX1,PLRNI		32063.42 48	032071.40
	BBZ,PRRT+.61,S+1.		32111.75 80 032073.34 06	032072.00
	B,MESSA		32077.10 00	032073.00
OVDRAW	+%BU,48,PRRT+.12,69%SX2H	-RESTORE PARTIAL REMAINDER	32111.14 80 060042.60 12	032073.40
	BBZ,PRRT+.11%SX3H,S+1.	-PUT 0 IN THIS ROOT POSITION	32111.13 83 032075.74 06	032074.40
	BBZ,PRRT+.12%SX3H,S+1.		32111.14 83 032076.74 06	032075.40
	B,PUTES		32067.10 00	032076.40
MESSA	L%U,RRND+1.	-NOW COMPARE PROGRAMMED ROOT WITH SRT ROOT	32110.40 60	032077.00
	KF%BU,60,8,PRRT,68		32111.00 80 074042.23 10	032077.40
	BAE,ODEP		32105.76 C2	032100.40
	ST%U,RORRE+1.		32113.40 E0	032101.00
	L%U,PRRT		32111.40 60	032101.40
	ST%U,RORRE+2.		32114.40 E0	032102.00
	L%U,RRND		32107.40 60	032102.40
	ST%U,RORRE		32112.40 E0	032103.00
	BB,4.49,TXEN+3.	-LOOP ON THIS OPERAND IF KEY 49 IS DOWN	4.49 80 032073.74 06	032103.00

	SIC,SEN			1310.00	80		032104.40
	B,SERS			1304.10	00		032105.00
ODER	CB,SX3,TXEN			32037.46	48		032105.40
	BD,ROSA2			32122.04	00		032106.00
	CNOP			0.30	00		032106.40
RRND	DR%UH,2			2.00			032107.00
PRRT	DR%UH,1			1.00			032111.00
ROBRE	DR%UH,3			3.00			032112.00
TRS1	XW,.1,6400C			0.01	03	720000.00 00	032115.00
TRS2	%8HDD%BUH,1617427607747577141610			1617427607747577141610			032116.00
TRS3	XW,.1,48			0.01	00	001400.00 00	032117.00
TRS5	XW,%8H-.40			0.40	80	000000.00 00	032120.00
	NOP			0.30	00		032121.00
	NOP			0.30	00		032121.40
ROSA2	BD,S+1.0			32123.04	00		032122.00
	B,NIGER			32035.10	00		032122.40
	SIC,SEN0+.32			1311.40	80		032123.00
	B,SSW		SSW	1301.10	00		032123.40
	B,AAA+1.0			32127.10	00		032124.00
	CNOP			0.30	00		032124.40
	NOP			0.30	00		032125.00
	CNOP			0.30	00		032125.40
AAA	CW%CDSC#,S,2.0,S			32126.00	60	000040.64 56	032126.00
	NOP			0.30	00		032127.00
	NOP			0.30	00		032127.40
	NOP			0.30	00		032127.80
	NOP			0.30	00		032130.00
	L%BUH,MTCW		-ARE WE RUNNING FROM	32134.40	80	000000.20 50	032131.00
	K%BUH,%8H103.		-TAPE OR CARDS	103.00	80	000000.21 10	032132.00
	BAE,MTCP4			32134.36	C2		032133.00
	B,FL1		-IF CARDS,REPEAT SMFF-1.	10001.50	00		032133.40
MTCP4	B,FL1			10001.50	00		032134.00
MTCW	%8HDD%BUH,0000011770000004536000			0000011770000004536000			032134.40
	CNOP			0.30	00		032135.40
	NOP			0.30	00		032136.00
	NOP			0.30	00		032136.40
SSW	SYN,%8H1301.0			1301.00+		+00000000	
ERS	SYN,%8H1302.0			1302.00+		+00000000	
SERS	SYN,%8H1304.0			1304.00+		+00000000	
RET	SYN,%8H1306.40			1306.40+		+00000000	
RET1	SYN,%8HRET			1306.40+		+00000000	
RET2	SYN,%8H1307.40			1307.40+		+00000000	
SEN	SYN,%8H1310.0			1310.00+		+00000000	
SENC	SYN,%8H1311.0			1311.00+		+00000000	
DPET13	SYN,%8H1437.0			1437.00+		+00000000	
IDF1	SYN,%8H1443.0			1443.00+		+00000000	
IDF2	SYN,%8H1444.40			1444.40+		+00000000	
INT	SYN,%8H1353.0			1353.00+		+00000000	
END	NOP			0.30	00		032137.00
	NOP			0.30	00		032137.40
	END,%8H110000.0			110000.00			032140.00