

USS FORTRAN II \*\*\* VERSION #8002-08-62

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C      USS FORTRAN II TEST DECK                                0000
      LIST                                                    0000
C      LOOK HERE COMPILER, THIS IS DADDY SPEAKING. BE A GOOD BOY. 0000
      DIMENSION A%10:, B%10,10:, C%10,10,10:, D%2,2,2,10:      0000
      ODIMENSION                                              0000
C      WATCH OUT, THE NEXT CARD IS A CONTINUATION              0000
      1 IARRAY%3,3:, JARRAY%12:, KARRAY%13:, Q%8:              0000
      COMMON D,A,I,J,IARRAY,X,Y,Z                              0000
      EQUIVALENCE%A%2:, B%3,3:,:%C%10:, B%3,2:, N:            0000
      EQUIVALENCE  %R,JARRAY%1:,:%S,JARRAY%2:,:%T,KARRAY%6:,:%JARRAY,KA 0000
      IRRAY:                                                  0000
      X#Y#Z#Q$ IARRAY%1:#5$ T#.0000000000000000082          0000
          000 0 0000          211224195
          222 0 0000          3100070007
          232 0 0007          5001020014          Z
          232 0 0014          5001010021          Y
          232 0 0021          5001000028          X
          202 0 0028          0700050035
      DO 1 I # 2,9                                             0035
          100 0 0000          3382000000          *****
          232 0 0035          6000910042          IARRA
          212 0 0042          2500000049          CONST
856  FORMAT (I5/3E6.9/4/5F7.6H1234565H123455X5X,6%3A2:+52P-52P,&52P 0049
          212 0 0049          6000060056          T
          202 0 0056          0 00020063
          100 0 0014          0000090000          *****
          202 0 0070          0;00010077
          212 0 0077          3000140091          CONST
          222 0 0091          8700840063
          220 0 0063          0000980000
          100 0 0015          0000000000          *****
          100 0 0016          0000000000          *****
          100 0 0017          0300000500          *****
          100 0 0018          1000000000          *****
          100 0 0019          0400300608          *****
```

100 0 0020	1000300008	*****
100 0 0021	1000000400	*****
100 0 0022	0500500700	*****
100 0 0023	0800600006	*****
100 0 0024	0000012345	*****
100 0 0025	0000060000	*****
100 0 0026	0800500005	*****
100 0 0027	0000012345	*****
100 0 0028	0600500005	*****
100 0 0029	0600500005	*****
100 0 0030	0000600006	*****
100 0 0031	0000000000	*****
100 0 0032	0700300200	*****
100 0 0033	0100300000	*****
100 0 0034	0205200052	*****
100 0 0035	0205200152	*****
100 0 0036	0205200052	*****

1

18M3.4,K.3,12/X)

100 0 0037	0901800304	*****
100 0 0038	<del>00</del> 00000003 ←	*****
100 0 0039	1000001200	*****
100 0 0040	0600000000	*****
100 0 0041	0100000000	*****

0098

PUNCH 856 , %D,IARRAY,JARRAY%I:,R#S,T,1.0:,0.0,R AND S

100 0 0042	9900000000	*****
600 0 0400	112225472	*****
120 0 0045	0000980000	*****
150 0 0044	0004060000	*****
212 0 0098	0200150105	
215 1 0105	0 00430400	
120 0 0043	0001120000	
220 0 0119	0001260000	
212 0 0133	2500460140	*I*
220 0 0140	700147000-	
232 0 0147	2599990154	D
225 1 0154	0 01610401	EDPK*
202 0 0126	0700010168	
202 0 0161	0700010175	
100 0 0047	0000800000	*****
212 0 0175	7000460182	*I*
212 0 0182	3000470196	CONST
222 0 0196	8701890168	
212 0 0168	6000460133	*I*
220 0 0189	0000030000	
212 0 0010	2500460017	*I*
220 0 0017	700024000-	
232 0 0024	2500900031	IARRA
225 1 0031	0 00380402	EDPK*

0098

202	0	0003	0700010045	
202	0	0038	0700010052	
212	0	0052	7000460059	*I*
212	0	0059	3000140073	CONST
222	0	0073	8700660045	
212	0	0045	6000460010	*I*
212	0	0066	2900000080	JARRA
225	1	0080	0 00870402	EDPK*
100	0	0048	5010000000	*****
212	0	0112	2500020094	S
212	0	0087	2500480101	CONST
600	0	0100	122226372	*****
212	0	0101	3000010108	R
225	1	0108	0 01150106	
212	0	0115	3000060129	T
222	0	0129	8701220094	
212	0	0094	6000010119	R
222	0	0122	2601360136	

READ 856, %D, IARRAY, JARRAY%5\*I:, R#S, T, 1.0, :

0136

225	1	0136	0 01430403	EDPK*
212	0	0143	2500010150	R
212	0	0150	3500020157	S
225	1	0157	0 01640403	EDPK*

EXTRA OPERAND

120	0	0051	0000980000	*****
150	0	0050	0004050000	*****
225	1	0164	0 01710404	EDPK*
215	1	0171	0 00490400	
120	0	0049	0001780000	
220	0	0185	0001920000	
225	1	0199	0 00060401	EDPK*
212	0	0006	2500460013	*I*
220	0	0013	700020000-	
232	0	0020	5099990027	D
202	0	0192	0700010034	
202	0	0027	0700010041	
212	0	0041	7000460048	*I*
212	0	0048	3000470062	CONST
222	0	0062	8700550034	
212	0	0034	6000460199	*I*
220	0	0055	0000690000	
225	1	0076	0 00830402	EDPK*
212	0	0083	2500460090	*I*
220	0	0090	700097000-	
232	0	0097	5000900104	IARRA
202	0	0069	0700010111	
202	0	0104	0700010118	
212	0	0118	7000460125	*I*

212	0	0125	3000140139	CONST
222	0	0139	8701320111	
212	0	0111	6000460076	*I*
202	0	0132	0100000146	
100	0	0052	00000000-5	*****
202	0	0146	7700000153	
212	0	0153	8500520160	CONST
202	0	0160	3701000167	
225	1	0167	0 01740402	EDPK*
220	0	0174	700181000-	
212	0	0181	5000000188	JARRA
212	0	0178	2500020195	S
212	0	0188	2500480002	CONST
212	0	0002	3000010009	R
225	1	0009	0 00160106	FLPK*
212	0	0016	3000060030	T
222	0	0030	8700230195	

1 IARRAY%I: # -I 0030  
 212 0 0195 6000010185 R

EXTRA OPERAND

THROUGH 2 I # 2:6 0037  
 225 1 0023 0 00370404 EDPK\*  
 202 0 0037 0100000044  
 202 0 0044 7700000051  
 222 0 0051 2600580058  
 202 0 0058 75000 0065

JARRAY%I: # JARRAY%I&5:\*\*2 & 30\*-I 0065  
 232 0 0065 6400900070 IARRA  
 202 0 0084 0700020072  
 202 0 0079 0700010086  
 100 0 0054 0000060000 \*\*\*\*\*  
 212 0 0086 7000530093 I  
 212 0 0093 3000540107 CONST  
 222 0 0107 8701000072  
 212 0 0072 6000530114 I  
 212 0 0114 2500530121 I  
 212 0 0121 7000550128 (CORE  
 202 0 0128 05000-0135 ONLY)  
 212 0 0135 0700000142  
 200 0 0142 700001000-  
 102 0 0055 2500050149 JARRA

2 JARRAY%I: # JARRAY%I&5:\*\*2 OR 30 AND NOT I 0149  
 225 1 0149 0 01560124 FLPK\*  
 212 0 0156 6000560163 TEMP  
 100 0 0057 00000000-3 \*\*\*\*\*

212 0 0163	3000530170	I
212 0 0170	8500570177	CONST
202 0 0177	3702000184	
212 0 0184	7000560191	TEMP
202 0 0191	7700000198	
212 0 0198	2500530005	I
220 0 0005	700012000-	

X###-Y&-Z:##-Y\*-Z:##-Y\*\*~Z:&%ABS SIN -X :: 0019

212 0 0012	5000000019	JARRA
212 0 0019	2500530026	I
100 0 0058	0000300000	*****
225 1 0026	0 00330115	FLPK*
100 0 0059	0000020000	*****
212 0 0033	3500580040	CONST
212 0 0040	2000590047	CONST
202 0 0047	7700000054	
212 0 0054	2500530061	I
212 0 0061	7000600068	(CORE
202 0 0068	05000-0075	ONLY)
212 0 0075	0700000082	
200 0 0082	700001000-	
600 0 0200	132225772	*****
102 0 0060	2500050089	JARRA
225 1 0089	0 00960222	
212 0 0096	2500530103	I
220 0 0103	700110000-	
212 0 0110	5000000079	JARRA
232 0 0100	2501010117	Y
232 0 0117	3001020124	Z
225 1 0124	0 01310106	FLPK*
212 0 0131	6000560138	TEMP
232 0 0138	2501010145	Y
232 0 0145	3001020152	Z
225 1 0152	0 01590109	FLPK*
212 0 0159	6000610166	TEMP
232 0 0166	2501010173	Y
232 0 0173	3001020180	Z
225 1 0180	0 01870208	EXPK*
212 0 0187	3000610194	TEMP
225 1 0194	0 00010211	EXPK*
212 0 0001	3000560008	TEMP
225 1 0008	0 00150110	FLPK*
212 0 0015	6000560022	TEMP
600 0 0300	321123997	*****
232 0 0022	2501000029	X
225 1 0029	0 00360300	
222 0 0036	2600430043	
202 0 0043	20000 0050	
212 0 0050	3000560057	TEMP

Y+Z  
Y.Z  
Y A-Z  
YZ ↑ - (Y↑Z)

*[Handwritten marks and scribbles]*  
15210

IF%X&3.0-Y: 3,4,2\$ IF%X-Y&3.0: 3,4,3\$ IF%X&3.0-Y: 3,3,5 0057

225 1 0037	0 00640106	FLPK*
232 0 0064	<del>6001000071</del>	X
100 0 0062	<del>5030000000</del>	*****
232 0 0071	2501000078	X
212 0 0078	3000620085	CONST
225 1 0085	0 00920106	FLPK*
232 0 0092	3001010099	Y
222 0 0099	8700190120	
222 0 0120	8201060113	
232 0 0127	2501000134	X
232 0 0134	3001010141	Y
225 1 0141	0 01480108	FLPK*
212 0 0148	3000620155	CONST
225 1 0135	0 01620106	FLPK*
222 0 0162	3101690169	
222 0 0169	8201060113	
232 0 0176	2501000183	X
212 0 0183	3000620190	CONST

GO TO I\$ GO TO I,%3,4,5: 0190

225 1 0190	0 01970106	FLPK*
232 0 0197	3001010011	Y
222 0 0011	<del>8700040113</del>	
210 0 0018	<del>0000530000</del>	I

ASSIGN 3 TO I 0025

GO TO 3\$ 0025

210 0 0025	0000530000	I
120 0 0063	0001130000	*****
212 0 0032	3000630039	

4 GO TO%3,3,3,4,6:,%K\*3&IARRAY\*2%10%20%750%K:,: 0039

120 0 0065	0001130000	*****
120 0 0066	0001130000	*****
120 0 0067	0001130000	*****
120 0 0068	0001060000	*****
120 0 0069	0000460000	*****
212 0 0039	5000530113	I
100 0 0071	0000030000	*****
212 0 0106	2500700053	K
212 0 0053	<del>3000710060</del>	CONST
225 1 0060	0 00670100	FLPK*
212 0 0067	<del>6000560074</del>	TEMP
100 0 0072	<del>0000000-75</del>	*****
212 0 0074	<del>3000700081</del>	K
212 0 0081	<del>8500720088</del>	CONST
202 0 0089	<del>3703000095</del>	

202 0 0095 70000-0102  
 202 0 0102 3701000109  
 202 0 0109 3701000116

JARRAY%JARRAY%JARRAY%3:::#IJ#7M1245AFH&3HA H&3E15&3.14159E-15

0116

202 0 0116 70000-0123  
 220 0 0123 700130000-  
 232 0 0130 2500900137 IARRA  
 212 0 0137 7000560144 TEMP  
 220 0 0144 700151000-  
 210 0 0151 0000640000  
 112 0 0064 2500030158 JARRA  
 220 0 0158 700165000-  
 212 0 0165 2500000172 JARRA  
 100 0 0073 0001245-(' \*\*\*\*\*  
 212 0 0172 6000560179 TEMP  
 100 0 0074 101001 800 \*\*\*\*\*  
 212 0 0179 2500730186 CONST  
 100 0 0075 6530000000 \*\*\*\*\*  
 212 0 0186 7000740193 CONST  
 212 0 0193 3000750200 CONST

3 Q%3\*L:#S#D%FIX D%J&3-6,5&I\*\*2-7,2,M&3::

0200

100 0 0076 3531415900 \*\*\*\*\*  
 225 1 0200 0 02070106 FLPK\*  
 212 0 0207 3000760214 CONST  
 225 1 0214 0 02210106 FLPK\*  
 225 1 0221 0 02280118 FLPK\*  
 232 0 0228 5000900235 IJ  
 212 0 0235 2500560242 TEMP  
 220 0 0242 700249000-  
 212 0 0249 5000000113 JARRA  
 212 0 0113 3000770256 L  
 212 0 0256 8500570263 CONST  
 202 0 0263 3701000270  
 212 0 0270 6000560277 TEMP  
 212 0 0277 2500530284 I  
 225 1 0284 0 02910124 FLPK\*  
 212 0 0291 6000610298 TEMP  
 212 0 0298 2500860305 M  
 202 0 0305 70000-0312  
 202 0 0312 70000-0319  
 212 0 0319 7000610326 TEMP  
 202 0 0326 70000-0333  
 212 0 0333 7000870340 J  
 212 0 0340 7000880347 (CORE  
 202 0 0347 05000-0354 ONLY)  
 232 0 0354 0700000361  
 200 0 0361 700001000-  
 102 0 0088 2500100368 D

$$J + 2(I^2 + 2(2(M)))$$

$$(-3+2)(-2+2(2+2(3)))$$

6  
8  
16  
14  
28

$$2 \times 8 = 16$$

$$1 \times 4 = 4$$

$$-2 \times 2 = -4$$

$$-4 = -4$$

$$1 + 2 + 4 + 8 = 15$$

DO 7 I#1,7,3

225	1	0368	0	03750120
220	0	0375	700382000-	
232	0	0382	3099990389	
212	0	0389	5000020396	
212	0	0396	2500560203	
220	0	0203	700210000-	

FLPK\*  
D  
S  
TEMP

0368

DO 7 X#A#I: B#1: S#T

212	0	0210	5000770217
202	0	0217	0 00010224
100	0	0089	0000070000
202	0	0231	0100030238
212	0	0238	3000890252

Q  
\*\*\*\*\*  
CONST

0210

DO 7 J#6, I-1

222	0	0252	8702450224
212	0	0224	2500020259
212	0	0259	3000060266
225	1	0266	0 02730109
212	0	0273	6000560280
232	0	0280	2900790287
212	0	0294	2500560301
232	0	0301	3001000308
225	1	0308	0 03150106
232	0	0315	3000590329
222	0	0329	8703220287

S  
T  
FLPK\*  
TEMP  
A  
TEMP  
X  
FLPK\*  
B

0252

IF %X-C#I&2, J: 3,7,7

232	0	0287	6001000336
100	0	0090	0000010000
202	0	0336	0100000343
212	0	0343	7500900350
212	0	0350	6000610357
202	0	0357	0700060364
202	0	0371	0700010378
212	0	0378	7000870385
212	0	0385	3000610399
222	0	0399	8703920364
212	0	0364	6000870206
212	0	0206	2500870213

X  
\*\*\*\*\*  
CONST  
TEMP  
J  
TEMP  
J  
J

0329

D#3\*I:# I # ABS I & ABS J & FIX ABS D#2,1:

202	0	0213	3701000220
220	0	0220	700227000-
232	0	0227	2900530234
232	0	0234	3001000255
222	0	0255	8702410248
202	0	0262	0100000269

C  
X

0213



202	0	0269	7700000276	
212	0	0276	8500570283	CONST
202	0	0283	3701000290	
212	0	0290	6000910297	TEMP
202	0	0297	0100000304	
212	0	0304	6000920311	TEMP
222	0	0311	2603180318	
212	0	0318	2000870325	J

X # FLOAT I & FLOAT J & TAN $\alpha$ -TAN $\alpha$ -X: & EXP SQRT $\alpha$ -A $\alpha$ I: & X: 0325

212	0	0325	7000920332	TEMP
212	0	0332	6000920339	TEMP
222	0	0339	2603460346	
232	0	0346	2000010353	D
225	1	0353	0 03600120	FLPK*
212	0	0360	7000920367	TEMP
202	0	0367	7700000374	
202	0	0374	25000 0381	
220	0	0381	700388000-	
202	0	0388	0 00000395	INDEX
212	0	0395	2500910202	TEMP
220	0	0202	700209000-	
232	0	0209	5099990216	D
202	0	0216	0100000223	
225	1	0223	0 02300116	FLPK*
212	0	0230	6000910237	TEMP
212	0	0237	2500870244	J
225	1	0244	0 02510116	FLPK*
212	0	0251	3000910258	TEMP
225	1	0258	0 02650106	FLPK*
212	0	0265	6000910272	TEMP
232	0	0272	2501000279	X
225	1	0279	0 02860302	TRIG*
225	1	0286	0 02930302	TRIG*
212	0	0293	3000910300	TEMP
225	1	0300	0 03070106	FLPK*
212	0	0307	6000910314	TEMP
232	0	0314	2900790321	A
232	0	0321	3001000328	X

A $\alpha$ I & J: #B $\alpha$ I, J: & LN $\alpha$ B $\alpha$ J,  $\gamma$ : & 1.0: 0328

225	1	0329	0 03350107	FLPK*
225	1	0335	0 03420200	EXPK*
225	1	0342	0 03490203	EXPK*
212	0	0349	3000910356	TEMP
225	1	0356	0 03630106	FLPK*
232	0	0363	6001000370	X
202	0	0370	0100000377	
212	0	0377	7000870384	J
212	0	0384	6000910391	TEMP

212 0 0391	2500870398	J
202 0 0398	<del>3701000205</del>	
212 0 0205	<del>6000920212</del>	TEMP
202 0 0212	<del>7700000219</del> ← IR1 0000	
202 0 0219	3701000226	
212 0 0226	7000870233	J
220 0 0233	700240000-	
232 0 0240	2500480247	B
212 0 0247	<del>3000480254</del>	CONST

IF\* D%J,I,2:-C%J,I,2:17,3,3

0254

225 1 0254	<del>0 02610106</del>	FLPK*
225 1 0261	<del>0 02680205</del>	EXPK*
212 0 0268	<del>2500920275</del>	TEMP
220 0 0275	700282000-	
232 0 0282	2900480289	B
225 1 0289	0 02960106	FLPK*
212 0 0296	2500910303	TEMP
220 0 0303	700310000-	
<del>232 0 0310</del>	<del>5000790317</del>	A
202 0 0317	<del>7700000324</del> IR1 0000	
202 0 0324	<del>70000-0331</del>	
212 0 0331	7000870338	J
212 0 0338	<del>6000910345</del>	TEMP
202 0 0345	<del>7700000352</del>	
202 0 0352	3701000359	

IF\*-D%J,I,2:-C%J,I,2:17,3,3

0359

212 0 0359	7000870366	J
212 0 0366	7000930373	(CORE
202 0 0373	05000-0380	ONLY)
232 0 0380	0700000387	
200 0 0387	700001000-	
102 0 0093	<del>3001510394</del>	C
212 0 0394	2500910201	TEMP
220 0 0201	700208000-	
232 0 0208	<del>2500010215</del>	D
222 0 0215	<del>8702410222</del>	
222 0 0222	<del>8202410248</del>	
202 0 0229	<del>7700000236</del>	
202 0 0236	70000-0243	
212 0 0243	7000870250	J
212 0 0250	<del>6000910257</del>	TEMP
202 0 0257	<del>7700000264</del>	
202 0 0264	3701000271	
212 0 0271	7000870278	J
212 0 0278	7000940285	(CORE
202 0 0285	05000-0292	ONLY)
232 0 0292	0700000299	
200 0 0299	700001000-	

102	0	0094	3001510306	C
212	0	0306	2500910313	TEMP
220	0	0313	700320000-	
232	0	0320	2500010327	D

TRACE

225	1	0327	0 03340106	FLPK*	0327
222	0	0334	3103410341		

X # I\$ I # X

222	0	0341	8702480241		0341
202	0	0348	0100000355		
225	1	0355	0 03620122	FLPK*	
100	0	0095	00003 7	*****	
232	0	0362	5001000369	X	
212	0	0369	0500950376	TRACE	

ASSIGN 7 TO I

225	1	0376	0 03830412	EDPK*	0376
232	0	0383	2501000390	X	
225	1	0390	0 03970118	FLPK*	
202	0	0397	25000 0204		
220	0	0204	700211000-		
100	0	0096	1211395457	*****	
202	0	0211	0 00000218	INDEX	
212	0	0218	0500960225	TRACE	

CALL SUB

225	1	0225	0 02320412	EDPK*	0225
120	0	0097	0002390000	*****	
212	0	0232	3000970246		
202	0	0246	25000 0253		
220	0	0253	700260000-		
202	0	0260	0 00000267	INDEX	
212	0	0267	0500960274	TRACE	

CALL SUB1\*I,A\*I:,R+A(I),%D:0.0,5HS0,OK,JUNC%F%-T:::

600	0	1000	00331 242	*****	0274
225	1	0274	0 02810412	EDPK*	
600	0	1100	<del>03310 2421</del>	*****	
225	1	0281	<del>0 02881000</del>		
202	0	0288	<del>0100000295</del>		
212	0	0295	<del>6000910302</del>	TEMP	
202	0	0302	<del>0100000309</del>		
212	0	0309	<del>6000920316</del>	TEMP	
202	0	0316	<del>0100000323</del>		
220	0	0323	<del>700330000-</del>		
232	0	0330	<del>3000790337</del>	A	
212	0	0337	<del>2500010344</del>	R	
225	1	0344	<u>0 03510106</u>	FLPK*	

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600 0 1200      02321 1453
600 0 1300      00001   6
212 0 0351      6000980358
222 0 0358      2603650365
212 0 0365      7500060372
110 0 0101      0000990000
212 0 0372      6000990379
215 1 0379      0 01001300
110 0 0103      0000990000
112 0 0100      6000990386
215 1 0386      0 01021200
110 0 0111 ✓     0000990000
100 0 0112 ✓     3232226-62
110 0 0110 ✓     0001120000
100 0 0113 ✓     0000000000
110 0 0109 ✓     0001130000
130 0 0108 ✓     0000000000
110 0 0107 ✓     0000980000
112 0 0102 ✓     6000990393
212 0 0393 ✓     2500920400
220 0 0400 ✓     700407000-
232 0 0407 ✓     0700790414
110 0 0105 ✓     0000910000
212 0 0414 ✓     6001060421

```

```

*****
*****
TEMP
      T
*****
TEMP
*****
TEMP
*****
*****
*****
*****
*****
*****
TEMP
TEMP
      A
*****
TEMP

```

7 CONTINUE  
END

```

215 1 0421      0 01041100

120 0 0104 exit 0002390000
220 0 0239     0003710000
220 0 0392     0002940000
220 0 0322     0002310000
202 0 0428 ←     0100000435
212 0 0435      6000530239
202 0 0442 ←     0100000449
212 0 0449      6000530113
210 0 0245      0000010000

```

```

0421
0421
      I
      I
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)
(HEADERS)

```

```

211224195
7100010600
4001030114
112225472
122226372
132225772
321123997
00331 242
03310 2421
02321 1453
00001   6

```

SUBROUTINE SUB			0000
	000 0 0000	00331 242	(HEADERS)
	202 1 0000	<u>0100000007</u>	
	212 0 0007	<u>6000000014</u>	
	202 0 0014	<u>0100000028</u>	
	222 0 0028	<u>2000350021</u>	
	201 0 0035	0 00000000	
	702 0 0000	0000000000	

12.3 STOP I 0035

PAUSE\$ STOP\$ PAUSE 8MHHHH0000			0042
	212 0 0021	<u>6000010042</u>	
	600 0 0100	<u>122226372</u>	*****
	212 0 <u>0042</u>	<u>2500020049</u>	I
	225 1 0049	0 00560128	
	222 0 0056	<u>2600630063</u>	
	225 1 0063	0 00700127	FLPK*

GO TO 12.3		<i>26 0063 0063</i>	0070
	225 1 0070	0 00770128	FLPK*
	202 0 0077	07''''0084	

END			0084
	225 1 0084	0 <u>00420127</u>	FLPK*
		00331 242	(HEADERS)
		7100010200	(HEADERS)
		<u>4000000003</u>	(HEADERS)
		<u>122226372</u>	(HEADERS)

SUBROUTINE SUB1\$1,A,R,D,S,C,J:			0000
	000 0 0000	03310 2421	(HEADERS)
	202 1 0000	0100000007	
	212 0 0007	<u>6000000014</u>	
	202 0 0014	<u>0100000028</u>	
	222 0 0028	<u>2000350021</u>	
	201 0 0035	0 00000000	
	702 0 0000	<u>0000000000</u>	

DIMENSION B%10,10:,D%2,2,2,2: 0035

COMMON X,B			0035
	212 0 0021	<u>6000010042</u>	
	100 0 0005	<u>2500000000</u>	*****
	202 1 0042	3400070049	
	202 0 0049	2500050056	
	202 0 0056	20000 0063	
	100 0 0006	<u>3000000000</u>	*****
	202 0 0063	6000020070	
	202 0 0070	2500060077	

202 0 0077	20000 0084
100 0 0007	<del>5000000000</del>
202 0 0084	6000030091
202 0 0091	2500070098
202 0 0098	20000 0105
202 0 0105	6000040112
202 1 0112	3400060119
202 0 0119	2500050126
202 0 0126	20000 0133
202 0 0133	6000080140
202 0 0140	2500060147
202 0 0147	20000 0154
202 0 0154	6000090161
202 0 0161	2500070168
202 0 0168	20000 0175
202 0 0175	6000100182
202 1 0182	3400050189
202 0 0189	2500050196
202 0 0196	20000 0003
202 0 0003	6000110010
202 0 0010	2500060017
202 0 0017	20000 0024
202 0 0024	6000120031
202 0 0031	2500070038
202 0 0038	20000 0045
202 0 0045	6000130052
202 1 0052	3400040059
212 0 0059	5000140066
202 1 0066	3400030073
202 0 0073	2500050080
202 0 0080	20000 0087
202 0 0087	6000150094
202 0 0094	2500060101
202 0 0101	20000 0108
202 0 0108	6000160115
202 0 0115	2500070122
202 0 0122	20000 0129
202 0 0129	6000170136
202 1 0136	3400020143
202 0 0143	2500050150
202 0 0150	20000 0157
202 0 0157	6000180164
202 0 0164	2500060171
202 0 0171	20000 0178
202 0 0178	6000190185
202 0 0185	2500070192
202 0 0192	20000 0199
202 0 0199	6000200006
202 1 0006	3400010013
202 0 0013	2500050020

\*\*\*\*\*

14 = D

202 0 0020	20000 0027
202 0 0027	6000210034
202 0 0034	2500060041
202 0 0041	20000 0048
202 0 0048	6000220055
202 0 0055	2500070062
202 0 0062	20000 0069

EQUIVALENCE %Y,Z:

0069

PRINT I,I,D

0069

600 0 0400	112225472	*****
202 0 0059	6000230076	
202 0 0076	0700000083	
212 0 0083	3500210090	
150 0 0025	0004070000	*****
212 0 0090	6000260097	TEMP
215 1 0097	0 00240400	
121 0 0024	0501040000	I

B%3:# Y # X&FLOAT JUNC%R%D%2,2,2:&D%I&3,J:\*3.: -Z

0104

225 1 0104	0 01110402	EDPK*
212 0 0118	2500270125	*I*
212 0 0125	7000280132	(CORE
202 0 0132	05000-0139	ONLY)
212 0 0139	2500140146	PARAM
200 0 0146	70000)000-	
102 0 0028	2499990153	D
225 1 0153	0 01600401	EDPK*
202 0 0111	0700010167	
202 0 0160	0700010174	
100 0 0029	0000160000	*****
212 0 0174	7000270181	*I*
212 0 0181	3000290195	CONST
222 0 0195	8701880167	
212 0 0167	6000270118	*I*

EXTRA OPERAND

600 0 1000	02321 1453	*****
225 1 0188	0 00020404	EDPK*
212 0 0002	2500140009	PARAM
220 0 0009	700016000-	
202 0 0016	3000150023	D
600 0 0100	122226372	*****
221 0 0023	0500300000	R
225 1 0030	0 00370106	
212 0 0037	6000260044	TEMP
221 0 0044	0500510000	J
202 0 0051	70000-0058	
221 0 0058	0500650001	I

202 0 0065	70000 0072	
212 0 0072	<u>7000300079</u>	(CORE
202 0 0079	<u>05000-0086</u>	ONLY)
212 0 0086	<u>2500140093</u>	PARAM
200 0 0093	<u>70000)000-</u>	
100 0 0031	<u>5030000000</u>	*****
102 0 0030	<u>2500000100</u>	D
212 0 0100	<u>3000310107</u>	CONST
225 1 0107	<u>0 01140109</u>	FLPK*
212 0 0114	<u>3000260121</u>	TEMP
225 1 0121	<u>0 01280106</u>	FLPK*
110 0 0033	<u>0000260000</u>	*****
212 0 0128	<u>6000260135</u>	TEMP
215 1 0135	<u>0 00321000</u>	
125 1 0032	<u>0 01420116</u>	FLPK*
232 0 0142	<u>3000000149</u>	X

NO TRACE

225 1 0149	0 01560106	FLPK*	0149
212 0 0156	<u>3000340163</u>	Z	
225 1 0163	<u>0 01700108</u>	FLPK*	
100 0 0035	<u>00003 8</u>	*****	
212 0 0170	<u>5000340177</u>	Y	
212 0 0177	<u>0500350184</u>	TRACE	
225 1 0184	<u>0 01910412</u>	EDPK*	
100 0 0036	<u>00001 21</u>	*****	
232 0 0191	<u>5000030198</u>	B	
212 0 0198	<u>0500360005</u>	TRACE	

DO 3 I# 1,J

0005

3 CALL SUB2%I,A,R,D,D%I:,-D%I:;\$ GO TO 4

0005

225 1 0005	<u>0 00120412</u>	EDPK*
202 0 0012	<u>0 00010019</u>	
202 0 0026	<u>0100010033</u>	
221 0 0033	<u>0500470001</u>	J
222 0 0047	<u>8700400019</u>	
600 0 1100	<u>03310 2422</u>	*****
220 0 0019	<u>0000540000</u>	
202 0 0054	<u>0100000061</u>	
212 0 0061	<u>6000260068</u>	TEMP
202 0 0068	<u>0100000075</u>	
212 0 0075	<u>6000370082</u>	TEMP
202 0 0082	<u>0100000089</u>	
212 0 0089	<u>7000380096</u>	(CORE
202 0 0096	<u>05000-0103</u>	ONLY)
212 0 0103	<u>2500140110</u>	PARAM
200 0 0110	<u>70000)000-</u>	
102 0 0038	<u>2999990117</u>	D
222 0 0117	<u>2501240124</u>	



202	0	0124	75000	0131	
110	0	0046	0000390000		*****
212	0	0131	6000390138		TEMP
212	0	0138	2500370145		TEMP
212	0	0145	7000470152		(CORE
202	0	0152	05000-0159		ONLY)
212	0	0159	2500140166		PARAM
200	0	0166	70000)000-		
102	0	0047	0699990173		D
212	0	0173	6000450180		TEMP
212	0	0180	2500140187		PARAM
220	0	0187	700194000-		
202	0	0194	0700000001		D
212	0	0001	6000440008		TEMP
202	0	0008	07''''0015		
212	0	0015	3500150022		
212	0	0022	6000430029		TEMP
202	0	0029	07''''0036		
212	0	0036	3500180043		
110	0	0041	0000260000		*****
212	0	0043	6000420050		TEMP

4

I#J

215	1	0050	0	00401100	
120	0	0040	0000570000		
202	0	0064	0100000071		
202	0	0071	7700000078		I
221	0	0078	0500850002		

0050

END

220	0	0040	0000850000		
221	0	0035	0500920000		J
202	0	0092	7700000099		I
211	0	0039	0500010002		
			03310 2421		(HEADERS)
			7100010200		(HEADERS)
			4001010048		(HEADERS)
			112225472		(HEADERS)
			02321 1453		(HEADERS)
			122226372		(HEADERS)
			03310 2422		(HEADERS)

0085

FUNCTION JUNC%A:

000	0	0000	02321 1453		(HEADERS)
202	1	0000	0100000007		
212	0	0007	6000000014		
202	0	0014	0100000028		
222	0	0028	2000350021		
202	0	0035	0 00000042		
212	0	0042	2500020049		JUNC

0000

201 0 0049 7700000000  
702 0 0000 0000000000

JUNC#7M0000000

0049

212 0 0021 6000010056  
100 0 0006 250000000' \*\*\*\*\*  
202 1 0056 3400010063  
202 0 0063 2500060070  
202 0 0070 20000 0077  
100 0 0007 300000000' \*\*\*\*\*  
202 0 0077 6000030084  
202 0 0084 2500070091  
202 0 0091 20000 0098  
100 0 0008 500000000' \*\*\*\*\*  
202 0 0098 6000040105  
202 0 0105 2500080112  
202 0 0112 20000 0119

A#0

0119

202 0 0119 6000050126  
222 0 0126 2601330133

JUNC # JUNC%4:

0133

212 0 0133 6000020140 JUNC  
222 0 0140 2601470147  
202 0 0147 7700000154 A

END OF FORTRAN TEST PROGRAM

0154

221 0 0154 0501610002  
100 0 0009 0000040000 \*\*\*\*\*  
212 0 0161 2500020168 JUNC  
600 0 0100 122226372 \*\*\*\*\*  
212 0 0168 3000090175 CONST  
225 1 0175 0 01820100  
211 0 0182 6000020001 JUNC  
02321 1453 (HEADERS)  
7100010200 (HEADERS)  
4000000010 (HEADERS)  
122226372 (HEADERS)

MAIN\*10000000000000211224195 2220000003100070007232000000750010200148949341987  
MAIN\*100012320000014500101002123200000215001000028202000002807000500351557 70148  
MAIN\*1000210000000003382000000232000003560000910042212000004225000000491518320170  
MAIN\*100032120000049600006005620200000560 00020063100000001400000900005735880241  
MAIN\*100042020000070010001007721200000773000140091222000009187008400633756700473  
MAIN\*1000522000000630000980000100000001500000000010000000160000000008396390099  
MAIN\*100061000000017030000050010000000181000000000100000001904003006098895711168  
MAIN\*100071000000020100030000910000000211000000400100000002205005007009696211178  
MAIN\*100081000000023080060000610000000240000012345100000002500000600007996382431  
MAIN\*100091000000026080050000510000000270000012345100000002806005000058596 22445  
MAIN\*10010100000002906005000051000000030000060000610000000310000000007796810111  
MAIN\*100111000000032070030020010000000330100300000100000003402052000528201210362  
MAIN\*100121000000035020520015210000000360205200052100000003709018003048508110628  
MAIN\*10013100000003800000000031000000039100000120010000000400600000008795 11333  
MAIN\*10014100000004101000000010000000429000000006000000400112225472 3317(6522-  
MAIN\*1001512000000450000980000150000004400004060000212000009802001501059220600307  
MAIN\*1001621501001050 0043040012000000430001120000220000011900012600000148620683  
MAIN\*10017212000013325004601402200000140700147000-232000014725999901542937330737  
MAIN\*1001822501001540 0161040120200001260700010168202000016107000101752287441203  
MAIN\*100191000000047000030000021200001757000460182212000018230004701969437140801  
MAIN\*10020222000019687013901682120000168600046013322000018900000300005437790874  
MAIN\*1002121200000102500460017220000017700024000-232000002425009000312837010123  
MAIN\*1002222501000310 0038040220200000030700010045202000003807000100522286210593  
MAIN\*100232120000052700046005921200000593000140073222000007387006600459356670384  
MAIN\*10024212000004560004600102120000066290000008022501000800 008704029186840707  
MAIN\*100251000000048501000000021200001122500020094212000008725004801019445110467  
MAIN\*100266000000100122226372 2120000101300001010822501001080 011501069-89534276  
MAIN\*100272120000115300006012922200001298701220094212000009460000101198357300707  
MAIN\*100282220000122260136013622501001360 01430403212000014325000101506888311118  
MAIN\*100292120000150350002015722501001570 01640403120000005100009800003(68450947  
MAIN\*100301500000050000405000022501001640 0171040421501001710 004904000102161219  
MAIN\*10031120000004900017800002200000185000192000022501001990 000604010249870865  
MAIN\*10032212000000625004600132200000013700020000-232000002050999900275436060115  
MAIN\*100332020000192070001003420200000270700010041212000004170004600488755890416  
MAIN\*10034212000004830004700622200000628700550034212000003460004601998356890473  
MAIN\*100352200000055000069000022501000760 00830402212000008325004600903968090741  
MAIN\*100362200000090700097000-23200000975000900104202000006907000101113437290514  
MAIN\*100372020000104070001011821200001187000460125212000012530001401391156020766  
MAIN\*100382220000139870132011121200001116000460076202000013201000001466-57190753  
MAIN\*10039100000005200000000-520200001467700000153212000015385005201605535130748  
MAIN\*100402020000160370100016722501001670 017404022200000174700181000-207036111-  
MAIN\*100412120000181500000018821200001782500020195212000018825004800020555110973  
MAIN\*100422120000062300001000922501000090 00160106212000001630000600307386040214  
MAIN\*10043222000003087002301952120000195600001018522501000230 003704045886721075  
MAIN\*100442020000037010000004420200000447700000051222000005126005800582155190329  
MAIN\*10045202000005875000 006523200000656400900070202000008407000200725156400459  
MAIN\*100462020000079070001008610000000540000060000212000008670005300937036310444  
MAIN\*100472120000093300054010722200001078701000072212000007260005301148357 80612  
MAIN\*100482120000114250053012121200001217000550128202000012805000-01350456830795  
MAIN\*10049212000013507000001422000000142700001000-1020000055250005014995358-0677  
MAIN\*1005022501001490 0156012421200001566000560163100000005700000000-35967930712  
MAIN\*100512120000163300053017021200001708500570177202000017737020001845658811092  
MAIN\*100522120000184700056019120200001917700000198212000019825005300057656801019  
MAIN\*100532200000005700012000-21200000125000000019212000001925005300265136360140  
MAIN\*100541000000058000030000022501000260 00330115100000005900000200008846160312  
MAIN\*100552120000033350058004021200000402000590047202000004777000000543656880316  
MAIN\*100562120000054250053006121200000617000600068202000006805000-00750456880443  
MAIN\*10057212000007507000000822000000082700001000-6000000200132225772 33377-8227  
MAIN\*100581020000060250005008922501000890 00960222212000009625005301034987350717  
MAIN\*100592200000103700110000-21200001105000000079232000010025010101175337820574

MAIN\*100602320000117300102012422501001240 01310106212000013160005601380888700800  
 MAIN\*10061232000013825010101452320000145300102015222501001520 015901096189430902  
 MAIN\*100622120000159600061016623200001662501010173232000017330010201802458351079  
 MAIN\*1006322501001800 018702082120000187300061019422501001940 000102114(18401237  
 MAIN\*100642120000001300056000822501000080 00150110212000001560005600220387080228  
 MAIN\*100656000000300321123997 2320000022250100002922501000290 003603000878710721  
 MAIN\*1006622200000362600430043202000004320000 0050212000005030005600578156440345  
 MAIN\*1006722501000570 0064010623200000646001000071100000006250300000001197450427  
 MAIN\*10068232000007125010000782120000078300062008522501000850 009201066788350571  
 MAIN\*100692320000092300101009922200000998700190120222000012082010601130857(70712  
 MAIN\*10070232000012725010001342320000134300101014122501001410 014801086189300855  
 MAIN\*100712120000148300062015522501001550 01620106222000016231016901697889740966  
 MAIN\*100722220000169820106011323200001762501000183212000018330006201904558391086  
 MAIN\*1007322501001900 0197010623200001973001010011222000001187000401133088830701  
 MAIN\*100742100000018000053000021000000250000530000120000006300011300009597(00180  
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 MAIN\*100772120000039500053011310000000710000030000212000010625007000536936(70459  
 MAIN\*100782120000053300071006022501000600 00670100212000006760005600740388050492  
 MAIN\*1007910000000720000000-7521200000743000700081212000008185007200880937331150  
 MAIN\*1008020200000883703000095202000009570000-0102202000010237010001094659 80671  
 MAIN\*1008120200001093701000116202000011670000-01232200000123700130000-813778067)  
 MAIN\*1008223200001302500900137212000013770005601442200000144700151000-7338380778  
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 MAIN\*100851000000074101001 80021200001792500730186100000007565300000008356-58399  
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 MAIN\*1008722501002000 020701062120000207300076021422501002140 022101064(20951134  
 MAIN\*1008822501002210 0228011823200002285000900235212000023525005602428789551367  
 MAIN\*100892200000242700249000-212000024950000000113212000011330007702565638(71069  
 MAIN\*100902120000256850057026320200002633701000270212000027060005602778657841689  
 MAIN\*100912120000277250053028422501002840 02910124212000029160006102989889861649  
 MAIN\*1009221200002982500360305202000030570000-0312202000031270000-031968563'1943  
 MAIN\*1009321200003197000610326202000032670000-0333212000033370008703401457252070  
 MAIN\*1009421200003407000880347202000034705000-0354232000035407000003618856332197  
 MAIN\*100952000000361700001000-1020000088250010036822501003680 0375012093697-1407  
 MAIN\*100962200000375700332000-23200003823099990389212000038950000203965939242034  
 MAIN\*10097212000039625005602032200000203700210000-212000021050007702175139141330  
 MAIN\*1009820200002170 0001022410000000890000070000202000023101000302380835821097  
 MAIN\*10099212000023830008902522200002528702450224212000022425000202594858771548  
 MAIN\*101002120000259300006026622501002660 02730109212000027360005602800389161553  
 MAIN\*101012320000280290079028721200002942500560301232000030130010003089357761872  
 MAIN\*1010222501003080 0315010623200003153000590329222000032987032202873092771776  
 MAIN\*10103232000028760010003361000000900000010000202000033601000003436 36 21495  
 MAIN\*101042120000343750090035021200003506000610357202000035707000603644656982225  
 MAIN\*101052020000371070001037821200003787000870385212000038530006103991156902401  
 MAIN\*101062220000399870392036421200003646000870206212000020625008702137861071858  
 MAIN\*10107202000021337010002202200000220700227000-232000022729005302344339811227  
 MAIN\*101082320000234300100025522200002558702410248202000026201000002693358821631  
 MAIN\*101092020000269770000027621200002768500570283202000028337010002900256181786  
 MAIN\*101102120000290600091029720200002970100000304212000030460009203113357241913  
 MAIN\*101112220000311260318031821200003182000870325212000032570009203322260682040  
 MAIN\*101122120000332600092033922200003392603460346232000034620000103531459802167  
 MAIN\*1011322501003530 0360012021200003607000920367202000036777000003745690332054  
 MAIN\*10114202000037425000 03812200000381700388000-20200003880 00000395033936203'  
 MAIN\*10115212000039525009102022200000202700209000-232000020950999902165438401343  
 MAIN\*101162020000216010000022322501002230 02300116212000023060009102378389021361  
 MAIN\*101172120000237250087024422501002440 02510116212000025130009102586889801467  
 MAIN\*1011822501002580 0265010621200002656000910272232000027225010002799790371570  
 MAIN\*1011922501002580 0265010621200002656000910272232000027225010002799790371570

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