

\$LIST

\$DATE 102121

\$*

\$* SYSTEM READY TO RUN JOBS

\$*

\$PAUSE

OPER. ACTION PAUSE

..CONTINUING

\$TAPÉ

```

      $JOB          ALCSBTTEST
      $EXECUTE      IBJOB
IBJOB VERSION 5 HAS CONTROL.
$IBJOB          GO, MAP, FIOCS
$IBFTC BLOCDA  FULIST,NODD,NODECK,M94

```

BLOCK DATA

C
C
C
C

DOUBLE PRECISION C
COMMON/BTACON/C(100)

DATA (C(M),M=1,18) /

1 9.9009900990099010D-05, 1.0101010101010101D-04,
2 1.0307153164296021D-04, 1.0519671786240269D-04,
3 1.0738831615120275D-04, 1.0964912280701754D-04,
4 1.1198208286674132D-04, 1.1439029970258522D-04,
5 1.1687704534829360D-04, 1.1944577161968466D-04,
6 1.2210012210012210D-04, 1.2484394506866417D-04,
7 1.2768130745658836D-04, 1.3061650992685475D-04,
8 1.3365410318096766D-04, 1.3679890560875513D-04,
9 1.4005602240896359D-04, 1.4343086632243259D-04 /

DATA (C(M),M=19,36) /

1 1.4692918013517485D-04, 1.5055706112616682D-04,
2 1.5432098765432099D-04, 1.5822784810126582D-04,
3 1.6228497241155469D-04, 1.6650016650016650D-04,
4 1.7088174982911825D-04, 1.7543859649122807D-04,
5 1.8018018018018018D-04, 1.8511662347278786D-04,
6 1.9025875190258752D-04, 1.9561815336463224D-04,
7 2.0120724346076459D-04, 2.0703933747412008D-04,
8 2.1312872975277067D-04, 2.1949078138718174D-04,
9 2.2614201718679331D-04, 2.3310023310023310D-04 /

DATA (C(M),M=37,54) /

1 2.4038461538461538D-04, 2.4801587301587302D-04,
2 2.5601638504864311D-04, 2.6441036488630354D-04,
3 2.7322404371584699D-04, 2.8248587570621469D-04,
4 2.9222676797194623D-04, 3.0248033877797943D-04,
5 3.1328320802005013D-04, 3.2467532467532468D-04,
6 3.3670033670033670D-04, 3.4940600978336827D-04,
7 3.6284470246734398D-04, 3.7707390648567119D-04,
8 3.9215686274509804D-04, 4.0816326530612245D-04,
9 4.2517006802721088D-04, 4.4326241134751773D-04 /

DATA (C(M),M=55,72) /

1 4.6253469010175763D-04, 4.8309178743961353D-04,
2 5.0505050505050505D-04, 5.2854122621564482D-04,
3 5.5370985603543743D-04, 5.8072009291521487D-04,
4 6.0975609756097561D-04, 6.4102564102564103D-04,
5 6.7476383265856950D-04, 7.1123755334281650D-04,
6 7.5075075075075075D-04, 7.9365079365079365D-04,
7 8.4033613445378151D-04, 8.9126559714795009D-04,
8 9.4696969696969697D-04, 1.0080645161290323D-03,
9 1.0752688172043011D-03, 1.1494252873563218D-03 /

DATA (C(M),M=73,100) /

1 1.2315270935960591D-03, 1.3227513227513228D-03,
2 1.4245014245014245D-03, 1.5384615384615385D-03,
3 1.6666666666666667D-03, 1.8115942028985507D-03,
4 1.9762845849802372D-03, 2.1645021645021645D-03,
5 2.3809523809523810D-03, 2.6315789473684211D-03,
6 2.9239766081871345D-03, 3.2679738562091503D-03,
7 3.6764705882352941D-03, 4.1666666666666667D-03,

BLOFDA - EFN SOURCE STATEMENT - IFN(S) -

8 4.7619047619047619D-03, 5.4945054945054945D-03,
9 6.4102564102564103D-03, 7.5757575757575758D-03,
1 9.0909090909090909D-03, 1.1111111111111111D-02,
2 1.3888888888888889D-02, 1.7857142857142857D-02,
3 2.3809523809523810D-02, 3.3333333333333333D-02,
4 5.0000000000000000D-02, 8.3333333333333333D-02,
5 1.6666666666666667D-01, 5.0000000000000000D-01 /
END

\$IBFTC MAIN FULIST,NODD,NODECK,M94

```

INTEGER INDX
COMMON/BTACON/C(100)
DIMENSION F(4)
DOUBLE PRECISION XBETA,OVERA,F
C
XBETA = 0.625D0
OVERA = -0.971642362847211D0
CALL ALCSBT(XBETA,OVERA,F)
WRITE(6,80) XBETA
WRITE(6,90) OVERA
DO 200 INDX = 1, 4
WRITE(6,100) INDX, F(INDX)
200 CONTINUE
XBETA = 0.9D0
OVERA = 1.25D0
CALL ALCSBT(XBETA,OVERA,F)
WRITE(6,80) XBETA
WRITE(6,90) OVERA
DO 300 INDX = 1, 4
WRITE(6,100) INDX, F(INDX)
300 CONTINUE
C
XBETA = 0.70D0
OVERA = -0.05D0
CALL ALCSBT(XBETA,OVERA,F)
WRITE(6,80) XBETA
WRITE(6,90) OVERA
DO 400 INDX = 1, 4
WRITE(6,100) INDX, F(INDX)
400 CONTINUE
C
80 FORMAT(12H OVERA = ,D27.20)
90 FORMAT(12H XBETA = ,D27.20)
100 FORMAT(1HF,I1,1H=,D27.20)
RETURN
END

```

2
3
4
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12
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14
17
22
23
24
27

BLOCK DATA
COMMON VARIABLES

COMMON BLOCK

BTACON

ORIGIN

00000

LENGTH

00310

SYMBOL

LOCATION

TYPE

SYMBOL

LOCATION

TYPE

SYMBOL

LOCATION

TYPE

C

00000

D

BLOCD A

ASSEMBLY LISTING

\$IBLDR BLOCD A 10/21/21 BLOC0000

\$TEXT BLOCD A 10/21/21 BLOC0001

00000	400000002000	00001	ORG	C
00000	163637216111	10000	OCT	163637216111
00001	130316477763	10000	OCT	130316477763
00002	163647525424	10000	OCT	163647525424
00003	130452557640	10000	OCT	130452557640
00004	163660240333	10000	OCT	163660240333
00005	130421357366	10000	OCT	130421357366
00006	163671164166	10000	OCT	163671164166
00007	130374555644	10000	OCT	130374555644
00010	163702326516	10000	OCT	163702326516
00011	130227240070	10000	OCT	130227240070
00012	163713715545	10000	OCT	163713715545
00013	130400713715	10000	OCT	130400713715
00014	163725537542	10000	OCT	163725537542
00015	130155665003	10000	OCT	130155665003
00016	163737623230	10000	OCT	163737623230
00017	130501327133	10000	OCT	130501327133
00020	163752157426	10000	OCT	163752157426
00021	130302657254	10000	OCT	130302657254
00022	163764773656	10000	OCT	163764773656
00023	130621531124	10000	OCT	130621531124
00024	164400040004	10000	OCT	164400040004
00025	131000400040	10000	OCT	131000400040
00026	164405642124	10000	OCT	164405642124
00027	131502526266	10000	OCT	131502526266
00030	164413610605	10000	OCT	164413610605
00031	131062565322	10000	OCT	131062565322
00032	164421730321	10000	OCT	164421730321
00033	131561540443	10000	OCT	131561540443
00034	164430226000	10000	OCT	164430226000
00035	131214113000	10000	OCT	131214113000
00036	164436706551	10000	OCT	164436706551
00037	131542211000	10000	OCT	131542211000
00040	164445560004	10000	OCT	164445560004
00041	131455600045	10000	OCT	131455600045
00042	164454627560	10000	OCT	164454627560
00043	131515544241	10000	OCT	131515544241
00044	400044002044	00001	ORG	C+36
00044	164464104003	10000	OCT	164464104003
00045	131004524017	10000	OCT	131004524017
00046	164473573323	10000	OCT	164473573323
00047	131532071522	10000	OCT	131532071522
00050	164503504714	10000	OCT	164503504714
00051	131125756232	10000	OCT	131125756232
00052	164513647667	10000	OCT	164513647667
00053	131323217702	10000	OCT	131323217702
00054	164524254123	10000	OCT	164524254123
00055	131056020222	10000	OCT	131056020222
00056	164535132142	10000	OCT	164535132142
00057	131427750640	10000	OCT	131427750640
00060	164546272703	10000	OCT	164546272703

BLOEDA

ASSEMBLY LISTING

00061	131351332565	10000	OCT	131351332565
00062	164557727604	10000	OCT	164557727604
00063	131315411413	10000	OCT	131315411413
00064	164571672775	10000	OCT	164571672775
00065	131463740210	10000	OCT	131463740210
00066	164604157354	10000	OCT	164604157354
00067	131000604160	10000	OCT	131000604160
00070	164617000617	10000	OCT	164617000617
00071	131000617001	10000	OCT	131000617001
00072	164632173311	10000	OCT	164632173311
00073	131072373460	10000	OCT	131072373460
00074	164645754503	10000	OCT	164645754503
00075	131707104471	10000	OCT	131707104471
00076	164662142627	10000	OCT	164662142627
00077	131365557322	10000	OCT	131365557322
00100	164676755166	10000	OCT	164676755166
00101	131223420634	10000	OCT	131223420634
00102	164714234335	10000	OCT	164714234335
00103	131123122206	10000	OCT	131123122206
00104	164732202110	10000	OCT	164732202110
00105	131554750114	10000	OCT	131554750114
00106	164750661360	10000	OCT	164750661360
00107	131273105740	10000	OCT	131273105740
00110	400110002110	00001	ORG	C+72
00110	164770077007	10000	OCT	164770077007
00111	131700770077	10000	OCT	131700770077
00112	165404040404	10000	OCT	165404040404
00113	132040404041	10000	OCT	132040404041
00114	165414347600	10000	OCT	165414347600
00115	132041434760	10000	OCT	132041434760
00116	165425202167	10000	OCT	165425202167
00117	132531155520	10000	OCT	132531155520
00120	165436376025	10000	OCT	165436376025
00121	132206665450	10000	OCT	132206665450
00122	165450152346	10000	OCT	165450152346
00123	132202576772	10000	OCT	132202576772
00124	165462330032	10000	OCT	165462330032
00125	132252442207	10000	OCT	132252442207
00126	165475130712	10000	OCT	165475130712
00127	132324366433	10000	OCT	132324366433
00130	165510400510	10000	OCT	165510400510
00131	132400510401	10000	OCT	132400510401
00132	165524344571	10000	OCT	165524344571
00133	132535602774	10000	OCT	132535602774
00134	165541034473	10000	OCT	165541034473
00135	132643462405	10000	OCT	132643462405
00136	165556301730	10000	OCT	165556301730
00137	132511126164	10000	OCT	132511126164
00140	165574360610	10000	OCT	165574360610
00141	132270224476	10000	OCT	132270224476
00142	165613310006	10000	OCT	165613310006
00143	132133100061	10000	OCT	132133100061
00144	165633151471	10000	OCT	165633151471
00145	132500031547	10000	OCT	132500031547
00146	165653772770	10000	OCT	165653772770
00147	132036057513	10000	OCT	132036057513

BLOEDA

ASSEMBLY LISTING

00150	165675645342	10000	OCT	165675645342
00151	132312006756	10000	OCT	132312006756
00152	165720626543	10000	OCT	165720626543
00153	132667300350	10000	OCT	132667300350
00154	400154002154	00001	ORG	C+108
00154	165745001327	10000	OCT	165745001327
00155	132402103203	10000	OCT	132402103203
00156	165772435733	10000	OCT	165772435733
00157	132311254513	10000	OCT	132311254513
00160	166410625354	10000	OCT	166410625354
00161	133672545704	10000	OCT	133672545704
00162	166425067150	10000	OCT	166425067150
00163	133776725622	10000	OCT	133776725622
00164	166442233267	10000	OCT	166442233267
00165	133110004422	10000	OCT	133110004422
00166	166460355671	10000	OCT	166460355671
00167	133651134130	10000	OCT	133651134130
00170	166477540117	10000	OCT	166477540117
00171	133730023766	10000	OCT	133730023766
00172	166520052005	10000	OCT	166520052005
00173	133200520052	10000	OCT	133200520052
00174	166541612423	10000	OCT	166541612423
00175	133000541613	10000	OCT	133000541613
00176	166564711301	10000	OCT	166564711301
00177	133000564711	10000	OCT	133000564711
00200	166611470075	10000	OCT	166611470075
00201	133400611470	10000	OCT	133400611470
00202	166640064006	10000	OCT	166640064006
00203	133400640064	10000	OCT	133400640064
00204	166670450006	10000	OCT	166670450006
00205	133704500067	10000	OCT	133704500067
00206	166723217222	10000	OCT	166723217222
00207	133740035151	10000	OCT	133740035151
00210	166760370174	10000	OCT	166760370174
00211	133076037020	10000	OCT	133076037020
00212	167410204102	10000	OCT	167410204102
00213	134041020411	10000	OCT	134041020411
00214	167431700106	10000	OCT	167431700106
00215	134360021474	10000	OCT	134360021474
00216	167455241200	10000	OCT	167455241200
00217	134226520500	10000	OCT	134226520500
00220	400220002220	00001	ORG	C+144
00220	167502654611	10000	OCT	167502654611
00221	134352437416	10000	OCT	134352437416
00222	167532600532	10000	OCT	167532600532
00223	134600532601	10000	OCT	134600532601
00224	167565331260	10000	OCT	167565331260
00225	134400565331	10000	OCT	134400565331
00226	167623230637	10000	OCT	167623230637
00227	134715454714	10000	OCT	134715454714
00230	167664720155	10000	OCT	167664720155
00231	134164033235	10000	OCT	134164033235
00232	167732714035	10000	OCT	167732714035
00233	134534601666	10000	OCT	134534601666
00234	170403022155	10000	OCT	170403022155
00235	135217536065	10000	OCT	135217536065

BLOEDA

ASSEMBLY LISTING

00236	170433551220	10000	OCT	170433551220
00237	135043355122	10000	OCT	135043355122
00240	170470047004	10000	OCT	170470047004
00241	135700470047	10000	OCT	135700470047
00242	170530732214	10000	OCT	170530732214
00243	135100530732	10000	OCT	135100530732
00244	170577200577	10000	OCT	170577200577
00245	135200577201	10000	OCT	135200577201
00246	170654256006	10000	OCT	170654256006
00247	135542560065	10000	OCT	135542560065
00250	170741703607	10000	OCT	170741703607
00251	135417036074	10000	OCT	135417036074
00252	171421042104	10000	OCT	171421042104
00253	136210421042	10000	OCT	136210421042
00254	171470047004	10000	OCT	171470047004
00255	136700470047	10000	OCT	136700470047
00256	171550055005	10000	OCT	171550055005
00257	136500550055	10000	OCT	136500550055
00260	171644064406	10000	OCT	171644064406
00261	136440644065	10000	OCT	136440644065
00262	171760370174	10000	OCT	171760370174
00263	136076037020	10000	OCT	136076037020
00264	172451710112	10000	OCT	172451710112
00265	137362022474	10000	OCT	137362022474
00266	172554055405	10000	OCT	172554055405
00267	137540554055	10000	OCT	137540554055
00270	172707070707	10000	OCT	172707070707
00271	137070707071	10000	OCT	137070707071
00272	173444444444	10000	OCT	173444444444
00273	140444444444	10000	OCT	140444444444
00274	173606060606	10000	OCT	173606060606
00275	140060606061	10000	OCT	140060606061
00276	174421042104	10000	OCT	174421042104
00277	141210421042	10000	OCT	141210421042
00300	174631463146	10000	OCT	174631463146
00301	141314631463	10000	OCT	141314631463
00302	175525252525	10000	OCT	175525252525
00303	142252525253	10000	OCT	142252525253
00304	176525252525	10000	OCT	176525252525
00305	143252525253	10000	OCT	143252525253
00306	200400000000	10000	OCT	200400000000
00307	145000000000	10000	OCT	145000000000

```
$CDICT BLOCDA                                10/21/21    BLOC0013
000310000000          PREFACE  START=0,LENGTH=200,TYPE=7094,CMPLX=5
000004000005
224346232421    BLOCDA  DECK      LOC=0,LENGTH=200
000310000000
226321234645    BTACON  REAL      LOC=0,LENGTH=200
000310000000
000000000000          EVEN      LOC=0
100000000000
```

```
$DKEND BLOCDA                                10/21/21    BLOC0015
THE FIRST LOCATION NOT USED BY THIS PROGRAM IS 00310.
```

MAIN PROGRAM
COMMON VARIABLES

COMMON BLOCK BTACON ORIGIN 00001 LENGTH 00144

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
C	00000	R						

DIMENSIONED PROGRAM VARIABLES

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
F	00145	D						

UNDIMENSIONED PROGRAM VARIABLES

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
INDX	00155	I	XBETA	00157	D	OVERA	00161	D

ENTRY POINTS

..... SECTION 5

SUBROUTINES CALLED

ALCSBT	SECTION 6	.FWRD.	SECTION 7	.UN06.	SECTION 8
.FFIL.	SECTION 9	.FCNV.	SECTION 10	SYSLOC	SECTION 11
		EFN IFN	CORRESPONDENCE		

EFN	IFN	LOCATION	EFN	IFN	LOCATION	EFN	IFN	LOCATION
80	FORMAT	00205	90	FORMAT	00211	200	9A	00273
100	FORMAT	00215	300	19A	00346	400	29A	00423

MAIN

ASSEMBLY LISTING

\$IBLDR MAIN 10/21/21 MAIN0000

\$TEXT MAIN 10/21/21 MAIN0001

00000	002000005000	10011	TRA
00001	300000000003	00001	EVEN	3
00163	100000000163	00001	ORG	115
00163	200500000000	10000	C.0	OCT 200500000000
00164	145000000000	10000		OCT 145000000000
00165	200761366156	10000	C.2	OCT 200761366156
00166	145275310137	10000		OCT 145275310137
00167	200714631463	10000	C.4	OCT 200714631463
00170	145146314632	10000		OCT 145146314632
00171	201500000000	10000	C.6	OCT 201500000000
00172	146000000000	10000		OCT 146000000000
00173	200546314631	10000	C.8	OCT 200546314631
00174	145463146315	10000		OCT 145463146315
00175	174631463146	10000	C.10	OCT 174631463146
00176	141314631463	10000		OCT 141314631463
00177	000000000001	10000	C.12	OCT 000000000001
00200	000000000000	10000	C.13	OCT 000000000000
00201	000000000000	10000	C.14	OCT 000000000000
00202	000000000001	10000	C.15	OCT 000000000001
00203	000000000000	10000	RD.	OCT 000000000000
00204	000000000000	10000		OCT 000000000000
00205	740102306060	10000	80.	BCI 1,(12H
00206	606046652551	10000		BCI 1, OVER
00207	216013607324	10000		BCI 1,A = ,D
00210	020733020034	10000		BCI 1,27.20)
00211	740102306060	10000	90.	BCI 1,(12H
00212	606067222563	10000		BCI 1, XBET
00213	216013607324	10000		BCI 1,A = ,D
00214	020733020034	10000		BCI 1,27.20)
00215	740130267331	10000	100.	BCI 1,(1HF,I
00216	017301301373	10000		BCI 1,1,1H=,
00217	240207330200	10000		BCI 1,D27.20
00220	346060606060	10000		BCI 1,)
00221	044300000163	10001	1A	DLD C.0
00222	460300000157	10001		DST XBETA
00223	044300000165	10001		DLD C.2
00224	076000000002	10000		CHS
00225	076500000000	10000		LRS 0
00226	460300000161	10001		DST OVERA
00227	007400406000	10011	2A	TSX ALCSBT,4
00230	100003000235	10001		TXI *+5,,3
00231	000427000002	10100		PZE 2,,LK.DR
00232	000000000157	10001		PZE XBETA
00233	000000000161	10001		PZE OVERA
00234	000000000145	10001		PZE F
00235	007400407000	10011	3A	TSX .FWRD.,4
00236	100002000242	10001		TXI *+4,,2
00237	000427000003	10100		PZE 3,,LK.DR
00240	000000010000	10011		PZE .UN06.
00241	000000000205	10001		PZE 80.
00242	044300000157	10001		DLD XBETA

MAIN

ASSEMBLY LISTING

00243	007400412000	10011		TSX	.FCNV.,4
00244	007400411000	10011		TSX	.FFIL.,4
00245	007400407000	10011	4A	TSX	.FWRD.,4
00246	100002000252	10001		TXI	*+4,,2
00247	000427000004	10100		PZE	4,,LK.DR
00250	000000010000	10011		PZE	.UN06.
00251	000000000211	10001		PZE	90.
00252	044300000161	10001		DLD	OVERA
00253	007400412000	10011		TSX	.FCNV.,4
00254	007400411000	10011		TSX	.FFIL.,4
	00255	5A		NULL	
	00255	6A		NULL	
00255	477400100001	10000	7A	AXC	1,1
00256	477400200002	10000		AXC	2,2
00257	060000000155	10001		STZ	INDX
00260	063600100155	10001		SCA	INDX,1
00261	007400407000	10011		TSX	.FWRD.,4
00262	100002000266	10001		TXI	*+4,,2
00263	000427000007	10100		PZE	7,,LK.DR
00264	000000010000	10011		PZE	.UN06.
00265	000000000215	10001		PZE	100.
00266	050000000155	10001		CLA	INDX
00267	007400412000	10011		TSX	.FCNV.,4
00270	044300200000	10011	8A	DLD	F-2,2
	100002700145	10001			
00271	007400412000	10011		TSX	.FCNV.,4
00272	007400411000	10011		TSX	.FFIL.,4
	00273	9A		NULL	
00273	177777100274	10001	10A	TXI	*+1,1,-1
00274	177776200275	10001		TXI	*+1,2,-2
00275	377773100260	10001		TXH	7A+3,1,-5
00276	044300000167	10001	11A	DLD	C.4
00277	460300000157	10001		DST	XBETA
00300	044300000171	10001		DLD	C.6
00301	460300000161	10001		DST	OVERA
00302	007400406000	10011	12A	TSX	ALCSBT,4
00303	100003000310	10001		TXI	*+5,,3
00304	000427000014	10100		PZE	12,,LK.DR
00305	000000000157	10001		PZE	XBETA
00306	000000000161	10001		PZE	OVERA
00307	000000000145	10001		PZE	F
00310	007400407000	10011	13A	TSX	.FWRD.,4
00311	100002000315	10001		TXI	*+4,,2
00312	000427000015	10100		PZE	13,,LK.DR
00313	000000010000	10011		PZE	.UN06.
00314	000000000205	10001		PZE	80.
00315	044300000157	10001		DLD	XBETA
00316	007400412000	10011		TSX	.FCNV.,4
00317	007400411000	10011		TSX	.FFIL.,4
00320	007400407000	10011	14A	TSX	.FWRD.,4
00321	100002000325	10001		TXI	*+4,,2
00322	000427000016	10100		PZE	14,,LK.DR
00323	000000010000	10011		PZE	.UN06.
00324	000000000211	10001		PZE	90.
00325	044300000161	10001		DLD	OVERA
00326	007400412000	10011		TSX	.FCNV.,4

MAIN

ASSEMBLY LISTING

00327	007400411000	10011		TSX	.FFIL.,4
	00330		15A	NULL	
	00330		16A	NULL	
00330	477400100001	10000	17A	AXC	1,1
00331	477400200002	10000		AXC	2,2
00332	060000000155	10001		STZ	INDX
00333	063600100155	10001		SCA	INDX,1
00334	007400407000	10011		TSX	.FWRD.,4
00335	100002000341	10001		TXI	*+4,,2
00336	000427000021	10100		PZE	17,,LK.DR
00337	000000010000	10011		PZE	.UN06.
00340	000000000215	10001		PZE	100.
00341	050000000155	10001		CLA	INDX
00342	007400412000	10011		TSX	.FCNV.,4
00343	044300200000	10011	18A	DLD	F-2,2
	100002700145	10001			
00344	007400412000	10011		TSX	.FCNV.,4
00345	007400411000	10011		TSX	.FFIL.,4
	00346		19A	NULL	
00346	177777100347	10001	20A	TXI	*+1,1,-1
00347	177776200350	10001		TXI	*+1,2,-2
00350	377773100333	10001		TXH	17A+3,1,-5
00351	044300000173	10001	21A	DLD	C.8
00352	460300000157	10001		DST	XBETA
00353	044300000175	10001		DLD	C.10
00354	076000000002	10000		CHS	
00355	076500000000	10000		LRS	0
00356	460300000161	10001		DST	OVERA
00357	007400406000	10011	22A	TSX	ALCSBT,4
00360	100003000365	10001		TXI	*+5,,3
00361	000427000026	10100		PZE	22,,LK.DR
00362	000000000157	10001		PZE	XBETA
00363	000000000161	10001		PZE	OVERA
00364	000000000145	10001		PZE	F
00365	007400407000	10011	23A	TSX	.FWRD.,4
00366	100002000372	10001		TXI	*+4,,2
00367	000427000027	10100		PZE	23,,LK.DR
00370	000000010000	10011		PZE	.UN06.
00371	000000000205	10001		PZE	80.
00372	044300000157	10001		DLD	XBETA
00373	007400412000	10011		TSX	.FCNV.,4
00374	007400411000	10011		TSX	.FFIL.,4
00375	007400407000	10011	24A	TSX	.FWRD.,4
00376	100002000402	10001		TXI	*+4,,2
00377	000427000030	10100		PZE	24,,LK.DR
00400	000000010000	10011		PZE	.UN06.
00401	000000000211	10001		PZE	90.
00402	044300000161	10001		DLD	OVERA
00403	007400412000	10011		TSX	.FCNV.,4
00404	007400411000	10011		TSX	.FFIL.,4
	00405		25A	NULL	
	00405		26A	NULL	
00405	477400100001	10000	27A	AXC	1,1
00406	477400200002	10000		AXC	2,2
00407	060000000155	10001		STZ	INDX
00410	063600100155	10001		SCA	INDX,1

MAIN

ASSEMBLY LISTING

00411	007400407000	10011		TSX	.FWRD.,4
00412	100002000416	10001		TXI	*+4,,2
00413	000427000033	10100		PZE	27,,LK.DR
00414	000000010000	10011		PZE	.UN06.
00415	000000000215	10001		PZE	100.
00416	050000000155	10001		CLA	INDX
00417	007400412000	10011		TSX	.FCNV.,4
00420	044300200000	10011	28A	DLD	F-2,2
	100002700145	10001			
00421	007400412000	10011		TSX	.FCNV.,4
00422	007400411000	10011		TSX	.FFIL.,4
	00423	29A		NULL	
00423	177777100424	10001	30A	TXI	*+1,1,-1
00424	177776200425	10001		TXI	*+1,2,-2
00425	377773100410	10001		TXH	27A+3,1,-5
00426	002000005001	10011	31A	TRA+1
00427	000000000000	10000	LK.DR	PZE	**
00430	442131456060	10000		BCI	1,MAIN
00431	100000000440	10001	TXI	*+7,,**
00432	077400200000	10000		AXT	** ,2
00433	077400100000	10000		AXT	** ,1
00434	077400400000	10000		AXT	** ,4
00435	044100000437	10001		LDI	*+2
00436	002000400001	10000		TRA	1,4
00437	000000000000	10000		PZE	**
00440	060400000437	10001		STI	*-1
00441	063400413000	10011		SXA	SYSLOC,4
00442	063400400427	10001		SXA	LK.DR,4
00443	063400400434	10001		SXA	*-7,4
00444	063400100433	10001		SXA	*-9,1
00445	063400200432	10001		SXA	*-11,2
00446	002000000221	10001		TRA	1A

\$CDICT MAIN 10/21/21 MAIN0013

000447000431 PREFACE START=281,LENGTH=295,TYPE=7094,CMLPX=5

000004000005

442131456060 MAIN DECK LOC=0,LENGTH=295

000447000000

226321234645 BTACON REAL LOC=1,LENGTH=100

000144000001

000000000000 EVEN LOC=1

100000000001

000000000000 EVEN LOC=101

100000000145

333333333333 REAL LOC=281,LENGTH=0

000000000431

214323622263 ALCSBT VIRTUAL SECT. 6,CALL

200000100000

332666512433 .FWRD. VIRTUAL SECT. 7,CALL

200000100000

336445000633 .UN06. VIRTUAL SECT. 8

200000000000

332626314333 .FFIL. VIRTUAL SECT. 9

200000000000

332623456533 .FCNV. VIRTUAL SECT. 10

200000000000

627062434623 SYSLOC VIRTUAL SECT. 11

200000000000

\$DKEND MAIN 10/21/21 MAIN0016

THE FIRST LOCATION NOT USED BY THIS PROGRAM IS 00447.

\$ENTRY MAIN
\$IBFTC R1

FULIST,NODD,NODECK,M94

```
SUBROUTINE ALCSBT(XBETA,OVERA,F)
C      THIS ROUTINE TAKES BETA AND THE RECIPROCAL OF THE SEMI-
C      MAJOR AXIS AND COMPUTES THE G SERIES (POWERS OF BETA
C      TIMES THE H SERIES OF HERRICKS PARAMETER).
      DIMENSION F(4)
      DOUBLE PRECISION THETA2, F, C, TH2, TWOPI2, ONE, THETA, DSQRT, TH,FCOM0040
1 TWOPI
      DOUBLE PRECISION XBETA,OVERA,BETA2,BETA
      COMMON/BTACON/C(100)
      EQUIVALENCE ( TH2, L)
      DATA ONE, LA, LB / 1.0D0, 0000100000000, 01771/          FCOM0080
      DATA TWOPI,TWOPI2 / 6.2831853071795865D0, 39.478417604357434D01 / FCOM0090
      ASSIGN 200 TO LITTLE          FCOM0650
      BETA = XBETA
      BETA2 = BETA * BETA
      THETA2 = BETA2 * OVERA
      TH2 = THETA2          FCOM0660
      IF ( TH2 ) 5, 10, 10          FCOM0670
5 IF ( TWOPI2 + TH2 ) 6, 10, 10    FCOM0680
6 ASSIGN 100 TO LITTLE          FCOM0690
      THETA = DSQRT ( - THETA2 )    FCOM0700      7
      TH = DMOD ( THETA, TWOPI )    FCOM0710      8
      IF ( TH .EQ. 0.0D0 ) TH = TWOPI FCOM0720
      TH2 = - TH * TH          FCOM0730
10 MGO = IABS(L) / LA - LB        FCOM0740
      IF ( MGO .LT. 1 ) MGO = 1     FCOM0750
      IF ( MGO .GT. 18 ) MGO = 18   FCOM0760
      DO 30 M = 1, 2              FCOM0770
      F(2) = 0.                  FCOM0780
      GO TO (29,28,27,26,25,24,23,22,21,20,19,18,17,16,15,14,13,12),MGO FCOM0790
12 F(2) = (((((F(2)+ONE)*TH2*C(M)+ONE)*TH2*C(M+2)+ONE)*TH2*C(M+4)+ONE)*FCOM0800
1 TH2*C(M+6)                    FCOM0810
13 F(2) = (((((((((F(2)+ONE)*TH2*C(M+8)+ONE)*TH2*C(M+10)+ONE)*TH2* FCOM0820
1 C(M+12)+ONE)*TH2*C(M+14)+ONE)*TH2*C(M+16)+ONE)*TH2*C(M+18)+ONE)* FCOM0830
2 TH2 * C(M+20) + ONE ) * TH2 * C(M+22) FCOM0840
14 F(2) = (((((((((((F(2)+ONE)*TH2*C(M+24)+ONE)*TH2*C(M+26)+ONE)*TH2* FCOM0850
1 C(M+28)+ONE)*TH2*C(M+30)+ONE)*TH2*C(M+32)+ONE)*TH2*C(M+34)+ONE)* FCOM0860
2 TH2 * C(M+36) + ONE ) * TH2 * C(M+38) FCOM0870
15 F(2) = (((((((((((((F(2)+ONE)*TH2*C(M+40)+ONE)*TH2*C(M+42)+ONE)*TH2*C(M+44) FCOM0880
1 + ONE ) * TH2 * C(M+46) + ONE ) * TH2 * C(M+48 ) FCOM0890
16 F(2) = (((((((((((((F(2)+ONE)*TH2*C(M+50)+ONE)*TH2*C(M+52)+ONE)*TH2*C(M+54) FCOM0900
1 + ONE ) * TH2 * C(M+56) FCOM0910
17 F(2) = (((((((((((((F(2)+ONE)*TH2*C(M+58)+ONE)*TH2*C(M+60)+ONE)*TH2*C(M+62) FCOM0920
18 F(2) = (((((((((((((F(2)+ONE)*TH2*C(M+64)+ONE)*TH2*C(M+66)+ONE)*TH2*C(M+68) FCOM0930
19 F(2) = (( F(2) + ONE ) * TH2 * C(M+70) + ONE ) * TH2 * C(M+72) FCOM0940
20 F(2) = (( F(2) + ONE ) * TH2 * C(M+74) + ONE ) * TH2 * C(M+76) FCOM0950
21 F(2) = ( F(2) + ONE ) * TH2 * C(M+78) FCOM0960
22 F(2) = ( F(2) + ONE ) * TH2 * C(M+80) FCOM0970
23 F(2) = ( F(2) + ONE ) * TH2 * C(M+82) FCOM0980
24 F(2) = ( F(2) + ONE ) * TH2 * C(M+84) FCOM0990
25 CONTINUE          FCOM1000
26 F(2) = ( F(2) + ONE ) * TH2 * C(M+86) FCOM1010
27 CONTINUE          FCOM1020
28 F(2) = ( F(2) + ONE ) * TH2 * C(M+88) FCOM1030
29 F(M) = (((((((((((((((F(2)+ONE)*TH2*C(M+90)+ONE)*TH2*C(M+92)+ONE)*TH2*
```

R1 - EFN SOURCE STATEMENT - IFN(S) -

1	C(M+94)+ONE)*TH2*C(M+96)+ONE)*C(M+98)	FCOM1050
30	F(M+2) = F(M) * TH2 + ONE	FCOM1060
	GO TO LITTLE, (100,200)	
100	F(1) = (F(1)*TH*TH2 + TH - THETA)/THETA/THETA2	FCOM1080
	F(2) = F(2)*TH2 / THETA2	FCOM1090
	F(3) = F(3)*TH / THETA	
200	F(1) = F(1) * BETA2 * BETA	
	F(2) = F(2) * BETA2	
	F(3) = F(3) * BETA	
	RETURN	FCOM1110
	END	FCOM1120

SUBROUTINE ALCSBT
COMMON VARIABLES

COMMON BLOCK BTACON ORIGIN 00001 LENGTH 00310

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
C	00000	D						

UNDIMENSIONED PROGRAM VARIABLES

SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE	SYMBOL	LOCATION	TYPE
THETA2	00313	D	TH2	00311	D	TWOPI2	00315	D
ONE	00317	D	THETA	00321	D	TH	00323	D
TWOPI	00325	D	BETA2	00327	D	BETA	00331	D
L	00311	I	LITTLE	00333	I	MGO	00334	I
LA	00335	I	LB	00336	I			

ENTRY POINTS

ALCSBT SECTION 5

SUBROUTINES CALLED

DSQRT	SECTION 6	DMOD	SECTION 7	.FXEM.	SECTION 8
SYSLOC	SECTION 9				

EFN IFN CORRESPONDENCE

EFN	IFN	LOCATION	EFN	IFN	LOCATION	EFN	IFN	LOCATION
200	98A	01026	5	4A	00371	10	11A	00431
6	6A	00375	100	97A	01006	30	90A	00776
29	83A	00756	28	81A	00751	27	80A	00751
26	78A	00744	25	77A	00744	24	75A	00737
23	73A	00732	22	71A	00725	21	69A	00720
20	66A	00710	19	63A	00700	18	59A	00665
17	55A	00652	16	50A	00634	15	44A	00613
14	35A	00561	13	26A	00527	12	21A	00511

R1

ASSEMBLY LISTING

\$IBLDR	R1					10/21/21	R1	0000
\$TEXT	R1					10/21/21	R1	0001
00000	002000005000	10011		TRA	ALCSBT			
00001	300000000003	00001		EVEN	3			
00317	100000000317	00001		ORG	ONE			
00317	201400000000	10000		OCT	201400000000			
00320	146000000000	10000		OCT	146000000000			
00335	100000000335	00001		ORG	LA			
00335	000575360400	10000		OCT	000575360400			
00336	100000000336	00001		ORG	LB			
00336	000000003353	10000		OCT	000000003353			
00325	100000000325	00001		ORG	TWOPI			
00325	203622077325	10000		OCT	203622077325			
00326	150042055061	10000		OCT	150042055061			
00315	100000000315	00001		ORG	TWOPI2			
00315	211612621377	10000		OCT	211612621377			
00316	156026727254	10000		OCT	156026727254			
00337	100000000337	00001		ORG	223			
00337	000000000000	10000	C.0	OCT	000000000000			
00340	000000000000	10000		OCT	000000000000			
00341	000000000001	10000	C.2	OCT	000000000001			
00342	000000000000	10000	C.3	OCT	000000000000			
00343	000000000001	10000	C.4	OCT	000000000001			
00344	000000000022	10000	C.5	OCT	000000000022			
00345	000000000067	10000	C.6	OCT	000000000067			
00346	200000000001	00001		BSS	1			
00347	200000000002	00001	XX.1	BSS	2			
	00351	1A		NULL				
00351	077400401026	10001	2A	AXT	98A,4			
00352	075400400000	10000		PXA	0,4			
00353	060100000333	10001		STO	LITTLE			
00354	044300000000	10000	236J	DLD	**			
00355	460300000331	10001		DST	BETA			
00356	044300000331	10001		DLD	BETA			
00357	026100000331	10001		DFMP	BETA			
00360	460300000327	10001		DST	BETA2			
00361	044300000000	10000	241J	DLD	**			
00362	026100000327	10001		DFMP	BETA2			
00363	460300000313	10001		DST	THETA2			
00364	044300000313	10001		DLD	THETA2			
00365	460300000311	10001		DST	TH2			
00366	044300000311	10001		DLD	TH2			
00367	010000000431	10001	3A	TZE	11A			
00370	012000000431	10001		TPL	11A			
00371	044300000311	10001	4A	DLD	TH2			
00372	030100000315	10001		DFAD	TWOPI2			
00373	010000000431	10001	5A	TZE	11A			
00374	012000000431	10001		TPL	11A			
00375	077400401006	10001	6A	AXT	97A,4			
00376	075400400000	10000		PXA	0,4			
00377	060100000333	10001		STO	LITTLE			
00400	044300000313	10001		DLD	THETA2			
00401	076000000002	10000		CHS				

R1

ASSEMBLY LISTING

00402	076500000000	10000		LRS	0
00403	460300000347	10001		DST	XX.1
00404	007400406000	10011	7A	TSX	DSQRT,4
00405	100001000410	10001		TXI	*+3,,1
00406	001046000007	10100		PZE	7,,LK.DR
00407	000000000347	10001		PZE	XX.1
00410	460300000321	10001		DST	THETA
00411	007400407000	10011	8A	TSX	DMOD,4
00412	100002000416	10001		TXI	*+4,,2
00413	001046000010	10100		PZE	8,,LK.DR
00414	000000000321	10001		PZE	THETA
00415	000000000325	10001		PZE	TWOPI
00416	460300000323	10001		DST	TH
00417	044300000323	10001		DLD	TH
00420	030300000337	10001		DFSB	C.0
00421	410000000424	10001		TNZ	10A
00422	044300000325	10001	9A	DLD	TWOPI
00423	460300000323	10001		DST	TH
00424	044300000323	10001	10A	DLD	TH
00425	026100000323	10001		DFMP	TH
00426	076000000002	10000		CHS	
00427	076500000000	10000		LRS	0
00430	460300000311	10001		DST	TH2
00431	050000000311	10001	11A	CLA	L
00432	076000000003	10000		SSP	
00433	013100000000	10000		XCA	
00434	475400000000	10000		ZAC	
00435	076300000000	10000		LLS	0
00436	022100000335	10001		DVP	LA
00437	013100000000	10000		XCA	
00440	040200000336	10001		SUB	LB
00441	060100000334	10001		STO	MGO
00442	050000000334	10001	12A	CLA	MGO
00443	040200000343	10001		SUB	C.4
00444	010000000450	10001		TZE	14A
00445	012000000450	10001		TPL	14A
00446	050000000343	10001	13A	CLA	C.4
00447	060100000334	10001		STO	MGO
00450	050000000334	10001	14A	CLA	MGO
00451	040200000344	10001		SUB	C.5
00452	010000000456	10001		TZE	16A
00453	412000000456	10001		TMI	16A
00454	050000000344	10001	15A	CLA	C.5
00455	060100000334	10001		STO	MGO
	00456	16A		NULL	
	00456	17A		NULL	
	00456	18A		NULL	
00456	477400100001	10000	19A	AXC	1,1
00457	477400200002	10000		AXC	2,2
00460	044300000337	10001		DLD	C.0
00461	460300000000	10000	305J	DST	**
00462	077400400024	10000	20A	AXT	20,4
00463	075400400000	10000		PXA	0,4
00464	053500400334	10001		LAC	MGO,4
00465	777755401041	10001		TXL	99A,4,-19
00466	052200400466	10001		XEC	*,4

R1

ASSEMBLY LISTING

00467	002000000756	10001		TRA	83A
00470	002000000751	10001		TRA	81A
00471	002000000751	10001		TRA	80A
00472	002000000744	10001		TRA	78A
00473	002000000744	10001		TRA	77A
00474	002000000737	10001		TRA	75A
00475	002000000732	10001		TRA	73A
00476	002000000725	10001		TRA	71A
00477	002000000720	10001		TRA	69A
00500	002000000710	10001		TRA	66A
00501	002000000700	10001		TRA	63A
00502	002000000665	10001		TRA	59A
00503	002000000652	10001		TRA	55A
00504	002000000634	10001		TRA	50A
00505	002000000613	10001		TRA	44A
00506	002000000561	10001		TRA	35A
00507	002000000527	10001		TRA	26A
00510	002000000511	10001		TRA	21A
00511	044300000000	10000	21A	DLD	**
00512	030100000317	10001		DFAD	ONE
00513	026100000311	10001		DFMP	TH2
00514	026100242002	10011	22A	DFMP	C-2,2
00515	030100000317	10001		DFAD	ONE
00516	026100000311	10001		DFMP	TH2
00517	026100202002	10011	23A	DFMP	C+2,2
00520	030100000317	10001		DFAD	ONE
00521	026100000311	10001		DFMP	TH2
00522	026100202006	10011	24A	DFMP	C+6,2
00523	030100000317	10001		DFAD	ONE
00524	026100000311	10001		DFMP	TH2
00525	026100202012	10011	25A	DFMP	C+10,2
00526	460300000000	10000	342J	DST	**
00527	044300000000	10000	26A	DLD	**
00530	030100000317	10001		DFAD	ONE
00531	026100000311	10001		DFMP	TH2
00532	026100202016	10011	27A	DFMP	C+14,2
00533	030100000317	10001		DFAD	ONE
00534	026100000311	10001		DFMP	TH2
00535	026100202022	10011	28A	DFMP	C+18,2
00536	030100000317	10001		DFAD	ONE
00537	026100000311	10001		DFMP	TH2
00540	026100202026	10011	29A	DFMP	C+22,2
00541	030100000317	10001		DFAD	ONE
00542	026100000311	10001		DFMP	TH2
00543	026100202032	10011	30A	DFMP	C+26,2
00544	030100000317	10001		DFAD	ONE
00545	026100000311	10001		DFMP	TH2
00546	026100202036	10011	31A	DFMP	C+30,2
00547	030100000317	10001		DFAD	ONE
00550	026100000311	10001		DFMP	TH2
00551	026100202042	10011	32A	DFMP	C+34,2
00552	030100000317	10001		DFAD	ONE
00553	026100000311	10001		DFMP	TH2
00554	026100202046	10011	33A	DFMP	C+38,2
00555	030100000317	10001		DFAD	ONE
00556	026100000311	10001		DFMP	TH2

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ASSEMBLY LISTING

00557	026100202052	10011	34A	DFMP	C+42,2
00560	460300000000	10000	368J	DST	**
00561	044300000000	10000	35A	DLD	**
00562	030100000317	10001		DFAD	ONE
00563	026100000311	10001		DFMP	TH2
00564	026100202056	10011	36A	DFMP	C+46,2
00565	030100000317	10001		DFAD	ONE
00566	026100000311	10001		DFMP	TH2
00567	026100202062	10011	37A	DFMP	C+50,2
00570	030100000317	10001		DFAD	ONE
00571	026100000311	10001		DFMP	TH2
00572	026100202066	10011	38A	DFMP	C+54,2
00573	030100000317	10001		DFAD	ONE
00574	026100000311	10001		DFMP	TH2
00575	026100202072	10011	39A	DFMP	C+58,2
00576	030100000317	10001		DFAD	ONE
00577	026100000311	10001		DFMP	TH2
00600	026100202076	10011	40A	DFMP	C+62,2
00601	030100000317	10001		DFAD	ONE
00602	026100000311	10001		DFMP	TH2
00603	026100202102	10011	41A	DFMP	C+66,2
00604	030100000317	10001		DFAD	ONE
00605	026100000311	10001		DFMP	TH2
00606	026100202106	10011	42A	DFMP	C+70,2
00607	030100000317	10001		DFAD	ONE
00610	026100000311	10001		DFMP	TH2
00611	026100202112	10011	43A	DFMP	C+74,2
00612	460300000000	10000	394J	DST	**
00613	044300000000	10000	44A	DLD	**
00614	030100000317	10001		DFAD	ONE
00615	026100000311	10001		DFMP	TH2
00616	026100202116	10011	45A	DFMP	C+78,2
00617	030100000317	10001		DFAD	ONE
00620	026100000311	10001		DFMP	TH2
00621	026100202122	10011	46A	DFMP	C+82,2
00622	030100000317	10001		DFAD	ONE
00623	026100000311	10001		DFMP	TH2
00624	026100202126	10011	47A	DFMP	C+86,2
00625	030100000317	10001		DFAD	ONE
00626	026100000311	10001		DFMP	TH2
00627	026100202132	10011	48A	DFMP	C+90,2
00630	030100000317	10001		DFAD	ONE
00631	026100000311	10001		DFMP	TH2
00632	026100202136	10011	49A	DFMP	C+94,2
00633	460300000000	10000	411J	DST	**
00634	044300000000	10000	50A	DLD	**
00635	030100000317	10001		DFAD	ONE
00636	026100000311	10001		DFMP	TH2
00637	026100202142	10011	51A	DFMP	C+98,2
00640	030100000317	10001		DFAD	ONE
00641	026100000311	10001		DFMP	TH2
00642	026100202146	10011	52A	DFMP	C+102,2
00643	030100000317	10001		DFAD	ONE
00644	026100000311	10001		DFMP	TH2
00645	026100202152	10011	53A	DFMP	C+106,2
00646	030100000317	10001		DFAD	ONE

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ASSEMBLY LISTING

00647	026100000311	10001		DFMP	TH2
00650	026100202156	10011	54A	DFMP	C+110,2
00651	460300000000	10000	425J	DST	**
00652	044300000000	10000	55A	DLD	**
00653	030100000317	10001		DFAD	ONE
00654	026100000311	10001		DFMP	TH2
00655	026100202162	10011	56A	DFMP	C+114,2
00656	030100000317	10001		DFAD	ONE
00657	026100000311	10001		DFMP	TH2
00660	026100202166	10011	57A	DFMP	C+118,2
00661	030100000317	10001		DFAD	ONE
00662	026100000311	10001		DFMP	TH2
00663	026100202172	10011	58A	DFMP	C+122,2
00664	460300000000	10000	436J	DST	**
00665	044300000000	10000	59A	DLD	**
00666	030100000317	10001		DFAD	ONE
00667	026100000311	10001		DFMP	TH2
00670	026100202176	10011	60A	DFMP	C+126,2
00671	030100000317	10001		DFAD	ONE
00672	026100000311	10001		DFMP	TH2
00673	026100202202	10011	61A	DFMP	C+130,2
00674	030100000317	10001		DFAD	ONE
00675	026100000311	10001		DFMP	TH2
00676	026100202206	10011	62A	DFMP	C+134,2
00677	460300000000	10000	447J	DST	**
00700	044300000000	10000	63A	DLD	**
00701	030100000317	10001		DFAD	ONE
00702	026100000311	10001		DFMP	TH2
00703	026100202212	10011	64A	DFMP	C+138,2
00704	030100000317	10001		DFAD	ONE
00705	026100000311	10001		DFMP	TH2
00706	026100202216	10011	65A	DFMP	C+142,2
00707	460300000000	10000	455J	DST	**
00710	044300000000	10000	66A	DLD	**
00711	030100000317	10001		DFAD	ONE
00712	026100000311	10001		DFMP	TH2
00713	026100202222	10011	67A	DFMP	C+146,2
00714	030100000317	10001		DFAD	ONE
00715	026100000311	10001		DFMP	TH2
00716	026100202226	10011	68A	DFMP	C+150,2
00717	460300000000	10000	463J	DST	**
00720	044300000000	10000	69A	DLD	**
00721	030100000317	10001		DFAD	ONE
00722	026100000311	10001		DFMP	TH2
00723	026100202232	10011	70A	DFMP	C+154,2
00724	460300000000	10000	468J	DST	**
00725	044300000000	10000	71A	DLD	**
00726	030100000317	10001		DFAD	ONE
00727	026100000311	10001		DFMP	TH2
00730	026100202236	10011	72A	DFMP	C+158,2
00731	460300000000	10000	473J	DST	**
00732	044300000000	10000	73A	DLD	**
00733	030100000317	10001		DFAD	ONE
00734	026100000311	10001		DFMP	TH2
00735	026100202242	10011	74A	DFMP	C+162,2
00736	460300000000	10000	478J	DST	**

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ASSEMBLY LISTING

00737	044300000000	10000	75A	DLD	**
00740	030100000317	10001		DFAD	ONE
00741	026100000311	10001		DFMP	TH2
00742	026100202246	10011	76A	DFMP	C+166,2
00743	460300000000	10000	483J	DST	**
	00744		77A	NULL	
00744	044300000000	10000	78A	DLD	**
00745	030100000317	10001		DFAD	ONE
00746	026100000311	10001		DFMP	TH2
00747	026100202252	10011	79A	DFMP	C+170,2
00750	460300000000	10000	488J	DST	**
	00751		80A	NULL	
00751	044300000000	10000	81A	DLD	**
00752	030100000317	10001		DFAD	ONE
00753	026100000311	10001		DFMP	TH2
00754	026100202256	10011	82A	DFMP	C+174,2
00755	460300000000	10000	493J	DST	**
00756	044300000000	10000	83A	DLD	**
00757	030100000317	10001		DFAD	ONE
00760	026100000311	10001		DFMP	TH2
00761	026100202262	10011	84A	DFMP	C+178,2
00762	030100000317	10001		DFAD	ONE
00763	026100000311	10001		DFMP	TH2
00764	026100202266	10011	85A	DFMP	C+182,2
00765	030100000317	10001		DFAD	ONE
00766	026100000311	10001		DFMP	TH2
00767	026100202272	10011	86A	DFMP	C+186,2
00770	030100000317	10001		DFAD	ONE
00771	026100000311	10001		DFMP	TH2
00772	026100202276	10011	87A	DFMP	C+190,2
00773	030100000317	10001		DFAD	ONE
00774	026100202302	10011	88A	DFMP	C+194,2
00775	460300200000	10000	89A	DST	** ,2
	00776		90A	NULL	
00776	044300200000	10000	91A	DLD	** ,2
00777	026100000311	10001		DFMP	TH2
01000	030100000317	10001		DFAD	ONE
01001	460300200000	10000	92A	DST	** ,2
01002	177777101003	10001	93A	TXI	*+1,1,-1
01003	177776201004	10001		TXI	*+1,2,-2
01004	377775100460	10001		TXH	19A+2,1,-3
	01005		94A	NULL	
01005	002060000333	10001	95A	TRA*	LITTLE
	01006		96A	NULL	
01006	044300000000	10000	97A	DLD	**
01007	026100000323	10001		DFMP	TH
01010	026100000311	10001		DFMP	TH2
01011	030100000323	10001		DFAD	TH
01012	030300000321	10001		DFSB	THETA
01013	424100000321	10001		DFDP	THETA
01014	424100000313	10001		DFDP	THETA2
01015	460300000000	10000	525J	DST	**
01016	044300000000	10000	526J	DLD	**
01017	026100000311	10001		DFMP	TH2
01020	424100000313	10001		DFDP	THETA2
01021	460300000000	10000	529J	DST	**

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ASSEMBLY LISTING

01022	044300000000	10000	530J	DLD	**
01023	026100000323	10001		DFMP	TH
01024	424100000321	10001		DFDP	THETA
01025	460300000000	10000	533J	DST	**
01026	044300000000	10000	98A	DLD	**
01027	026100000327	10001		DFMP	BETA2
01030	026100000331	10001		DFMP	BETA
01031	460300000000	10000	537J	DST	**
01032	044300000000	10000	538J	DLD	**
01033	026100000327	10001		DFMP	BETA2
01034	460300000000	10000	540J	DST	**
01035	044300000000	10000	541J	DLD	**
01036	026100000331	10001		DFMP	BETA
01037	460300000000	10000	543J	DST	**
01040	002000005001	10011		TRA	ALCSBT+1
01041	062100001044	10001	99A	STA	*+3
01042	007400410000	10011		TSX	.FXEM.,4
01043	100001001046	10001		TXI	*+3,,1
01044	001046000143	10100		PZE	99,,LK.DR
01045	000000000345	10001		PZE	C.6
01046	000000000000	10000	LK.DR	PZE	**
01047	510160606060	10000		BCI	1,R1
01050	100000001057	10001	ALCSBT	TXI	*+7,,**
01051	077400200000	10000		AXT	** ,2
01052	077400100000	10000		AXT	** ,1
01053	077400400000	10000		AXT	** ,4
01054	044100001056	10001		LDI	*+2
01055	002000400001	10000		TRA	1,4
01056	000000000000	10000		PZE	**
01057	060400001056	10001		STI	*-1
01060	063400411000	10011		SXA	SYSLOC,4
01061	063400401046	10001		SXA	LK.DR,4
01062	063400401053	10001		SXA	*-7,4
01063	063400101052	10001		SXA	*-9,1
01064	063400201051	10001		SXA	*-11,2
01065	050000400003	10000		CLA	3,4
01066	062100000354	10001		STA	236J
01067	050000400004	10000		CLA	4,4
01070	062100000361	10001		STA	241J
01071	050000400005	10000		CLA	5,4
01072	062100001006	10001		STA	97A
01073	062100001015	10001		STA	525J
01074	062100001026	10001		STA	98A
01075	062100001031	10001		STA	537J
01076	073400100000	10000		PAX	0,1
01077	100002101100	10001		TXI	*+1,1,2
01100	063400100461	10001		SXA	305J,1
01101	063400100511	10001		SXA	21A,1
01102	063400100526	10001		SXA	342J,1
01103	063400100527	10001		SXA	26A,1
01104	063400100560	10001		SXA	368J,1
01105	063400100561	10001		SXA	35A,1
01106	063400100612	10001		SXA	394J,1
01107	063400100613	10001		SXA	44A,1
01110	063400100633	10001		SXA	411J,1
01111	063400100634	10001		SXA	50A,1

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ASSEMBLY LISTING

01112	063400100651	10001	SXA	425J,1
01113	063400100652	10001	SXA	55A,1
01114	063400100664	10001	SXA	436J,1
01115	063400100665	10001	SXA	59A,1
01116	063400100677	10001	SXA	447J,1
01117	063400100700	10001	SXA	63A,1
01120	063400100707	10001	SXA	455J,1
01121	063400100710	10001	SXA	66A,1
01122	063400100717	10001	SXA	463J,1
01123	063400100720	10001	SXA	69A,1
01124	063400100724	10001	SXA	468J,1
01125	063400100725	10001	SXA	71A,1
01126	063400100731	10001	SXA	473J,1
01127	063400100732	10001	SXA	73A,1
01130	063400100736	10001	SXA	478J,1
01131	063400100737	10001	SXA	75A,1
01132	063400100743	10001	SXA	483J,1
01133	063400100744	10001	SXA	78A,1
01134	063400100750	10001	SXA	488J,1
01135	063400100751	10001	SXA	81A,1
01136	063400100755	10001	SXA	493J,1
01137	063400100756	10001	SXA	83A,1
01140	063400101001	10001	SXA	92A,1
01141	063400101016	10001	SXA	526J,1
01142	063400101021	10001	SXA	529J,1
01143	063400101032	10001	SXA	538J,1
01144	063400101034	10001	SXA	540J,1
01145	177774101146	10001	TXI	*+1,1,-4
01146	063400100775	10001	SXA	89A,1
01147	063400100776	10001	SXA	91A,1
01150	100006101151	10001	TXI	*+1,1,6
01151	063400101022	10001	SXA	530J,1
01152	063400101025	10001	SXA	533J,1
01153	063400101035	10001	SXA	541J,1
01154	063400101037	10001	SXA	543J,1
01155	002000000351	10001	TRA	1A

\$CDICT R1 10/21/21 R1 0024

001156001050 PREFACE START=552,LENGTH=622,TYPE=7094,CMPLX=5

000004000005

510160606060 R1 DECK LOC=0,LENGTH=622

001156000000

226321234645 BTACON REAL LOC=1,LENGTH=200

000310000001

000000000000 EVEN LOC=1

100000000001

000000000000 EVEN LOC=201

100000000311

214323622263 ALCSBT REAL LOC=552,LENGTH=0

000000001050

246250516360 DSQRT VIRTUAL SECT. 6,CALL

200000100000

244446246060 DMOD VIRTUAL SECT. 7,CALL

200000100000

332667254433 .FXEM. VIRTUAL SECT. 8,CALL

200000100000

627062434623 SYSLOC VIRTUAL SECT. 9

200000000000

\$DKEND R1 10/21/21 R1 0026

THE FIRST LOCATION NOT USED BY THIS PROGRAM IS 01156.

SYSTEM 00000 THRU 02717
FILE BLOCK ORIGIN 02720
FILES 1. UNIT06
FILE LIST ORIGIN 02734
PRE-EXECUTION INITIALIZATION 02736
CALL ON OBJECT PROGRAM 02753
OBJECT PROGRAM 02760 THRU 17450

DECK	ORIGIN	CONTROL SECTIONS (/NAME/=NON 0 LENGTH, (LOC)=DELETED, 'LOC'=MOVED, *=NOT REFERENCED)															
1.	BLOCDA	02760	/BTACON/ 02760														
2.	MAIN	03270	/BTACON/(02760)		EVEN	03271	03556	*								
3.	R1	03574	/BTACON/(02760)		EVEN	03575	ALCSBT	04335									
4.	.IBSYS	00000	SYSLB1	00000	*	SYSLB2	00001	*	SYSLB3	00002	*	SYSLB4	00003	*	SYSCRD	00004	*
			SYSPRT	00005	*	SYSPCH	00006	*	SYSOU1	00007		SYSOU2	00010	*	SYSIN1	00011	*
			SYSIN2	00012	*	SYSPP1	00013	*	SYSPP2	00014	*	SYSCK1	00015	*	SYSCK2	00016	*
			SYSUT1	00017	*	SYSUT2	00020	*	SYSUT3	00021	*	SYSUT4	00022	*	SYSUT5	00023	*
			SYSUT6	00024	*	SYSUT7	00025	*	SYSUT8	00026	*	SYSUT9	00027	*	SYSTRA	00100	*
			SYSDAT	00101	*	SYSCUR	00102	*	SYSRET	00103		SYSKEY	00104	*	SYSSWS	00105	*
			SYSPOS	00106	*	SYSUNI	00107		SYSUBC	00110		SYSUAV	00111		SYSUCW	00112	
			SYSRPT	00113	*	SYSCEM	00114	*	SYSDMP	00115		SYSIOX	00116	*	SYSIDR	00117	
			SYSCOR	00120	*	SYSLDR	00121	*	SYSACC	00122	*	SYSPID	00123	*	SYSCYD	00124	*
			SYSSLD	00126	*	SYSTCH	00127	*	SYSTWT	00131		SYSGET	00132	*	SYSJOB	00133	
5.	.IOEX	00702	.ACTV	00702		.NDSEL	00704	*	.MWR	00706		.PUNCH	00707	*	.ENBSW	00710	*
			.PAWS	00711	*	.PAUSE	00712	*	.STOP	00713	*	.SYMUN	00714	*	.DECVD	00715	
			.DECVA	00716	*	.CKWAT	00717	*	.BCD5R	00720		.BCD5X	00721	*	.CVPRT	00722	*
			.STOPD	00723		.CHXAC	00724	*	.URRX	00725		.RCTX	00726	*	.RCHX	00727	
			.TCOX	00730	*	.TRCX	00731	*	.ETTX	00732	*	.TEFX	00733	*	.TRAPX	00734	*
			.TRAPS	00735	*	.COMM	00736	*	.LTPOS	00737	*	.IOXSI	00740	*	.CHPSW	00741	*
			.TRPSW	00742	*	.FDAMT	00743		.SDCXI	00744	*	.STCXI	00745	*	.COMMD	00746	*
			.IBCDZ	00747	*	.CHXSP	00750	*									
6.	.JBCON	02652	SYSLOC	02652		SYSFAZ	02653	*	.JCOR	02654	*	.JDATE	02655		.JLDAT	02656	*
			.JTYPE	02660		.JLIN	02661		.JVER	02662	*	SYSDSB	02663	*	.IOEXD	02664	*
			.FDPOS	02715		.JDTRK	02716	*	SYSZRO	02717	*						
7.	.LXCON	04443	.LXSTR	04443	*	.LXSTP	04446		.LXOUT	04514		.LXERR	04523		.LXCAL	04526	*
			.LXRTN	04526		IBEXIT	04526	*	.DBCLS	04710	*	.LXARG	05057		.LO	05102	*
			.CLSE	05110		.LFBL	05111	*	.LUNB	05112		.DFOUT	05113				
8.	.IODEF	05117	.DEFIN	05117		.ATTAC	05123	*	.CLOSE	05125		.OPEN	05127		.READ	05131	
			.WRITE	05133		.BSR	05143	*	.READR	05153		.RELES	05155	*	.LAREA	05166	
			.LFBLK	05204		.LTSX	05207	*	.RLHLD	05217	*	.AREA1	05222		.LUNBL	05230	
			.ENTRY	05234		.GOA	05271		.GO	05275		.DERR	05311		.NOPXI	05312	
			.COMXI	05314		.EX34	05336										
9.	.LXSL	05343	.LXSEL	05343		.LXSL1	05344		.LXTST	05347	*	.LXOVL	05407	*	.LXMOD	05451	*
			.LXIND	05475	*	.LXDIS	05500	*	.LXFLG	05501	*	.LTCH	05502				
10.	.FPTRP	05510	.FFPT.	05510	*	.FPOUT	05637		.FPARG	05645		/.COUNT/	05647	*	OVFLOW	05713	*
11.	.ERAS.	05720	E.1	05720		E.2	05721		E.3	05722		E.4	05723				
12.	XIT	05724	EXIT	05724		.EXIT.	05724	*									
13.	FXEM	05725	.FXEM.	05725		.FXOUT	06265		.FXARG	06273		/.OPTW./	06347	*			
14.	FOUT	06360	.FOUT.	06360													
15.	FCNV	06721	.FCON.	06721		.FCNV.	06742		.ENDFS	06750		.CNVSW	06753		.FDX1	06757	
			.FDX2	06760		.DBC	06762		.DBC10	07120		.DBC20	07146		.DDSW	07164	
			.DDFIX	07170		.FIXSW	07171		.DDBC	07236		.DDRS1	07507		.DDRS2	07511	*
			.D1	07514		.D2	07516		.FERR2	07603	*	.ANPT	07637		.ONPT	07654	
			.LNTP	07737		.AOUT	10006		.OOUT	10017		.LOUT	10046		.DFLT	10056	

		.FLT	10323	.FXFL1	10454	.FXD	10460	.FXFL2	10463	.FXFL3	10467	
		.INTG	10473	.TOPAC	10511	.WIDTH	10515	.FPACK	10522	.TEST	10523	
		.KOUNT	10556	.LIST	10561	.DONE	10567	.OUTBF	11260	.CHAR	11514	
		.FBDBF	11530	.DDDFL	11562	.DDFLG	11563	.WORD	11564	.MQD	11565	
		.PEX	11566	.FEXP	11567	.DIG	11570	.DEXPN	11571			
16.	FIOS	11623	.FIOS.	11623	.FSEL.	11763 *	.FILR.	11767 *	.FRTB.	11776 *	.FRTD.	12003
			.FILL.	12006	.FCLS	12010 *	.FOPN	12014 *	REOF	12020 *	.TOUT.	12163
			.REED	12171 *	.BIN	12172 *	.FCT	12173 *	.FCKSZ	12175 *		
17.	FIOH	12257	.FIOH.	12257	.FFIL.	13116	.FRTN.	13144 *				
18.	FWRD	13332	.FWRD.	13332								
19.	UN06	13356	.UN06.	13356	.BUFSZ	13357						
20.	FDMD	13362	DMOD	13362								
21.	FDSQ	13532	DSQRT	13532								
22.	.IOCS	13632	.L(0)	13632	.MONSW	13652	.TEOR	13721	.DEFI.	14001	.JOINX	14045 *
			.CLOS.	14064	.ATTC.	14077	.SH1	14311 *	.SH9	14353 *	.OPEN.	14374
			.OP4	14422 *	.OP7	14453 *	.OP9.2	14467 *	.RLSE.	14541	.RER2.	14541
			.READ.	14542	.RER1.	14565	.WRIT.	14567	.MNT1A	14757 *	.EOFEX	15040 *
			.FEEIT	15110	.GTIOX	15131	.RW7	15247 *	.RE7	15672 *	.ENDTR	16333
			.SEL59	16335 *	.BSR.	16754	.EOTOF	17101	.ETOF3	17107 *	.SWITC	17136
			.TCHEX	17443	.BASIO	17446 *						
23.	.IOCSM	17451										

I/O BUFFERS 17451 THRU 77631

UNUSED CORE 77632 THRU 77777

OVERA = 0.6250000000000000D 00
XBETA = -0.97164236284721101D 00
1= 0.39924853721116510D-01
2= 0.18921259241843502D 00
3= 0.58620732079408505D 00
4= 0.81615302962210556D 00
OVERA = 0.90000000000000002D 00
XBETA = 0.12500000000000000D 01
1= 0.12780132343142064D 00
2= 0.44034626245728076D 00
3= 0.10597516542892754D 01
4= 0.15504328280716007D 01
OVERA = 0.70000000000000001D 00
XBETA = -0.49999999999999994D-01
1= 0.57096678336449830D-01
2= 0.24450019626616915D 00
3= 0.69714516608317750D 00
4= 0.98777499023325777D 00

1285 LINES OUTPUT.

\$IBSYS

\$CARDS

\$*

\$* RETURNING FROM JOB TAPE

\$*

\$PAUSE

OPER. ACTION PAUSE

..CONTINUING

\$STOP

SYSPP1 IS B2 REC. 00001, FILE 00000
SYSOU1 IS B1 REC. 00280, FILE 00000
SYSIN1 IS A2 REC. 00002, FILE 00001

END OF JOBS

The form consists of a light green header section at the top, containing the text "END OF JOBS". Below the header, the form is divided into 15 horizontal rows. Each row is composed of two stacked rectangular boxes: a light green box on top and a white box on the bottom. This alternating pattern of light green and white boxes continues for the entire length of the form, providing a structured area for data entry.

EOF

EOF END OF OUTPUT

EOF

