

1001

COSYN IIA 1/13/61

E T Irons Syntax-directed compiler

1001

Address	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20
04000	75	0	000000	COMPILE	SLJ	0	0													
	75	0	04603		SLJ	0	COSYN													
04001	10	0	000000	TRANSYM	ENA	0	0													
	20	5	64000		STA	5	P													
04002	20	5	64000		STA	5	Q													
	50	0	000000		ENI	0	0													
04003	12	1	000000	PI	LDA	1	L													
	50	0	000000		ENI	0	0													
04004	64	0	04551		EQS	0	MMS2													
	75	0	04006		SLJ	0	B200													
04005	72	5	64000		RAO	5	P													
	75	0	04024		SLJ	0	B203													
04006	64	0	04552	B200	EQS	0	MMS3													
	75	0	04011		SLJ	0	B201													
04007	73	5	64000		RSO	5	P													
	22	3	04164		AJP	3	RETURN													
04010	75	0	04024		SLJ	0	B203													
	00	0	000000		00	0	0													
04011	64	0	04553	B201	EQS	0	MMS4													
	75	0	04023		SLJ	0	B202													
04012	51	1	000001		INI	1	1													
	12	1	000000		LDA	1	L													
04013	64	0	04553		EQS	0	MMS4													
	75	0	04015		SLJ	0	B204													
04014	72	5	64000		RAO	5	Q													
	75	0	04012		SLJ	0	/-2													
04015	12	5	64000	B204	LDA	5	P													

#12

M = 2

M = 3

M = 4

	15 5 64000		SUB 5 Q
04016	11 0 77776		INA 0 -1
	22 0 04031		AJP 0 SUBS
04017	12 0 04553		LDA 0 MMS4
	51 6 00001		INI 6 1
04020	04 6 76277		ENQ 6 NEGOTPX
	23 6 04673		QJP 6 OUTBOUND
04021	20 6 62000		STA 6 OTPX
	73 5 64000		RSO 5 Q
04022	22 3 04024		AJP 3 B203
	75 0 04020		SLJ 0 /-2
04023	12 5 64000	B202	LDA 5 P
	22 0 04031		AJP 0 SUBS
04024	12 0 05146	B203	LDA 0 PUTIKR
	22 4 04651		AJP 4 ASSEMBLE
04025	51 6 00001		INI 6 1
	04 6 76277		ENQ 6 NEGOTPX
04026	23 6 04673		QJP 6 OUTBOUND
	12 1 00000		LDA 1 L
04027	20 6 62000		STA 6 OTPX
	51 1 00001		INI 1 1
04030	75 0 04003		SLJ 0 PI
	00 0 00000		00 0 0
04031	12 1 00000	SUBS	LDA 1 L
	50 2 00004		ENI 2 4
04032	64 2 04521		EQS 2 TYPELIST
	75 0 04035		SLJ 0 SIMSYM
04033	12 2 04532		LDA 2 TLISTLNK
	20 0 04034		STA 0 /+1

IF *LC J = SYM*

04034	00 0 00000		00 0 0	
	00 0 00000		00 0 0	
04035	50 0 00000	SIMSYM	ENI 0 0	
	16 0 04555		LDQ 0 RT15	
04036	44 1 00000		LDL 1 L	
	53 2 04563		LIL 2 N	
04037	66 2 63400		MEQ 2 SUBL	
	75 0 04024		SLJ 0 B203	B1 = INDEX OF L
04040	12 2 63400		LDA 2 SUBL	B2 = TEMPORARY
	20 0 04564		STA 0 TEM	B3 = INDEX FOR SUBL *TEMPORARY*
04041	52 3 04564		LIU 3 TEM	B4 = TEMPORARY
	51 1 00001		INI 1 1	B5 = PUSHDOWN
04042	44 3 00000	B210	LDL 3 0	
	15 0 04556		SUB 0 BLANK	
04043	22 0 04003		AJP 0 PI	PUT OUT SYMBOLS TO
	51 6 00001		INI 6 1	
04044	10 6 76277		ENA 6 NEGOTPX	
	22 6 04673		AJP 6 OUTBOUND	
04045	44 3 00000		LDL 3 0	
	20 6 62000		STA 6 OTPX	
04046	51 3 00001		INI 3 1	
	75 0 04042		SLJ 0 B210	
04047	50 0 00000		ENI 0 0	
	44 0 04564		LDL 0 TEM	CONVERTS LJ+1 TO END
04050	75 0 00000	CVRT	SLJ 0 0	OF NUMBER STRING
	10 0 00000		ENA 0 0	LEAVES J ON FIRST
04051	20 0 04564		STA 0 TEM	NON DIGIT.
	50 0 00000		ENI 0 0	
04052	16 0 04555		LDQ 0 RT15	*OCTAL* ANSWER IN A

UPON EXIT

	51	1	00001		INI	1	1
04053	44	1	00000		LDL	1	L
	50	2	00010		ENI	2	10
04054	66	2	04060		MEQ	2	NUMTB
	75	0	04047		SLJ	0	CVRT-1
04055	12	0	04564		LDA	0	TEM
	16	2	04060		LDQ	2	NUMTB
04056	07	0	00003		LLS	0	3
	20	0	04564		STA	0	TEM
04057	75	0	04052		SLJ	0	CVRT+2
	00	0	00000		00	0	0
04060	00	0	00000	NUMTB	00	0	0
	00	0	00000		00	0	0
04061	10	0	00000		10	0	0
	00	0	00001		00	0	1
04062	20	0	00000		20	0	0
	00	0	00002		00	0	2
04063	30	0	00000		30	0	0
	00	0	00003		00	0	3
04064	40	0	00000		40	0	0
	00	0	00004		00	0	4
04065	50	0	00000		50	0	0
	00	0	00005		00	0	5
04066	60	0	00000		60	0	0
	00	0	00006		00	0	6
04067	70	0	00000		70	0	0
	00	0	00007		00	0	7
04070	75	4	04050	PARAM	SLJ	4	CVRT
	00	0	00000		00	0	0

04071	14 5 00017		ADD 5 RR
	20 5 64000		STA 5 TE
04072	12 0 04563		LDA 0 N
	20 5 64000		STA 5 NKEEP
04073	12 0 04565		LDA 0 SUBIX
	20 5 64000		STA 5 SBIXKEEP
04074	50 0 00000		ENI 0 0
	12 1 00000		LDA 1 L
04075	15 0 04554		SUB 0 MMSB
	22 1 04126		AJP 1 MACFORPM
04076	51 1 00001	STARTSUB	INI 1 1
	12 1 00000		LDA 1 L
04077	20 5 64000		STA 5 SUBLKEEP
	12 0 04565		LDA 0 SUBIX
04100	11 0 00001		INA 0 1
	60 5 64000		SAU 5 SUBLKEEP
04101	51 1 00002		INI 1 2
	10 6 00000		ENA 6 0
04102	20 5 64000		STA 5 VKEEP
	12 5 00016		LDA 5 RR
04103	20 5 00015		STA 5 RR+11
	10 0 04112		ENA 0 B212
04104	61 5 00014		SAL 5 EXIT+11
	51 5 00011		INI 5 11
04105	10 5 71310		ENA 5 NEGBIN
	22 6 04673		AJP 6 OUTBOUND
04106	72 0 05146		RAO 0 PUTIKR
	75 0 04001		SLJ 0 TRANSYM
04107	72 0 04565	B213	RAO 0 SUBIX

	15 0 05134		SUB 0 SUBXSTOP
04110	22 6 04673		AJP 6 OUTBOUND
	12 6 62000		LDA 6 OTPX
04111	20 7 04565		STA 7 SUBIX
	75 0 04115		SLJ 0 B214-1
04112	73 0 05146	B212	RSO 0 PUTIKR
	50 0 00000		ENI 0 0
04113	56 6 04115		SIU 6 /+2
	12 5 64000		LDA 5 VKEEP
04114	20 0 04564		STA 0 TEM
	53 6 04564		LIL 6 TEM
04115	54 6 76567		ISK 6 76567
	75 0 04107		SLJ 0 B213
04116	12 5 64000	B214	LDA 5 SUBLKEEP
	53 4 04563		LIL 4 N
04117	20 4 63400		STA 4 SUBL
	72 0 04563		RAO 0 N
04120	15 0 05133		SUB 0 NSTOP
	22 6 04673		AJP 6 OUTBOUND
04121	72 0 04565		RAO 0 SUBIX
	15 0 05134		SUB 0 SUBXSTOP
04122	22 6 04673		AJP 6 OUTBOUND
	12 0 04556		LDA 0 BLANK
04123	20 7 04565		STA 7 SUBIX
	12 1 00000		LDA 1 L
04124	15 0 04554		SUB 0 MMS8
	53 6 04564		LIL 6 TEM
04125	22 0 04076		AJP 0 STARTSUB
	50 0 00000		ENI 0 0

04126	12 5 64000	MACFORPM	LDA 5 TE	
	60 0 04127		SAU 0 /+1	
04127	12 0 76567		LDA 0 76567	NEGATIVE FOR MACRO
	22 3 04131		AJP 3 /+2	PAS FOR ADDRESS
04130	61 5 64000		SAL 5 TE	
	50 0 00000		ENI 0 0	
04131	12 5 64000		LDA 5 TE	
	61 0 04133		SAL 0 /+2	
04132	61 5 00013		SAL 5 RR+11	
	10 1 00001		ENA 1 1	
04133	61 5 64000		SAL 5 VKEEP	
	53 1 76567		LIL 1 76567	
04134	10 0 04137		ENA 0 /+3	
	61 5 00012		SAL 5 EXIT+11	
04135	51 5 00011		INI 5 11	
	10 5 71310		ENA 5 NEGBIN	
04136	22 6 04673		AJP 6 OUTBOUND	
	75 0 04001		SLJ 0 TRANSYM	
04137	12 5 64000		LDA 5 VKEEP	
	20 0 04564		STA 0 TEM	
04140	53 1 04564		LIL 1 TEM	
	12 5 64000		LDA 5 NKEEP	
04141	20 0 04563		STA 0 N	
	12 5 64000		LDA 5 SBIXKEEP	
04142	20 0 04565		STA 0 SUBIX	
	75 0 04003		SLJ 0 PI	
04143	75 4 04050	FCN	SLJ 4 CVRT	
	00 0 00000		00 0 0	
04144	11 0 04535		INA 0 FNBASE-1	

	20 5 64000		STA 5 TE
04145	10 6 00000		ENA 6 0
	20 5 64000		STA 5 VKEEP
04146	12 1 00000		LDA 1 L
	15 0 04554		SUB 0 MMS8
04147	51 1 00001		INI 1 1
	22 1 04162		AJP 1 EXECUTE
04150	12 5 00011	B220	LDA 5 RR
	20 5 00010		STA 5 RR+11
04151	10 0 04155		ENA 0 /+4
	61 5 00007		SAL 5 EXIT+11
04152	51 5 00011		INI 5 11
	10 5 71310		ENA 5 NEGBIN
04153	22 6 04673		AJP 6 OUTBOUND
	72 0 05146		RAO 0 PUTIKR
04154	75 0 04001		SLJ 0 TRANSYM
	00 0 00000		00 0 0
04155	73 0 05146		RSO 0 PUTIKR
	50 0 00000		ENI 0 0
04156	51 6 00001		INI 6 1
	12 0 04556		LDA 0 BLANK
04157	20 6 62000		STA 6 OTPX
	12 1 00000		LDA 1 L
04160	15 0 04554		SUB 0 MMS8
	51 1 00001		INI 1 1
04161	22 0 04150		AJP 0 B220
	50 0 00000		ENI 0 0
04162	12 5 64000	EXECUTE	LDA 5 TE
	61 0 04163		SAL 0 /+1

04163	12 5 64000		LDA 5 VKEEP
	75 0 76567		SLJ 0 76567
04164	12 5 00006	RETURN	LDA 5 EXIT
	61 0 04165		SAL 0 /+1
04165	51 5 77766		INI 5 -11
	75 0 76567		SLJ 0 76567
04166	12 5 00005	DEBUGAID	LDA 5 IVAR
	01 0 00030		ARS 0 30
04167	60 0 04170		SAU 0 /+1
	50 0 00000		ENI 0 0
04170	12 0 76567		LDA 0 76567
	41 0 04570		SCL 0 LF33
04171	15 0 00010		SUB 0 10
	22 1 04176		AJP 1 ROUST+1
04172	12 5 00004		LDA 5 GOAL
	41 0 04570		SCL 0 LF33
04173	15 0 00011		SUB 0 11
	22 1 04176		AJP 1 ROUST+1
04174	76 0 04176		SLS 0 ROUST+1
	00 0 00000		00 0 0
04175	75 3 04166	ROUST	SLJ 3 DEBUGAID
	56 4 04674		SIU 4 ARRGH
04176	56 4 04564		SIU 4 TEM
	57 3 04564		SIL 3 TEM
04177	12 0 04564		LDA 0 TEM
	20 5 64000		STA 5 COUNTS
04200	10 0 77776		ENA 0 -1
	20 5 00003		STA 5 SW
04201	10 0 00000		ENA 0 0

	60 5 00002		SAU 5 MAC
04202	12 0 04357		LDA 0 QUALCON
	20 5 64000		STA 5 QUAL
04203	12 5 00001		LDA 5 IVAR
	20 0 04564		STA 0 TEM
04204	10 1 00000		ENA 1 0
	52 1 04564		LIU 1 TEM
04205	61 5 00000		SAL 5 IVAR
	50 0 00000		ENI 0 0
04206	12 1 00000	COMP	LDA 1 0
	14 0 05135		ADD 0 TRANLOC
04207	60 0 04210		SAU 0 /+1
	50 0 00000		ENI 0 0
04210	12 0 76567		LDA 0 76567
	22 3 04345		AJP 3 LIMITEST
04211	12 1 00001		LDA 1 1
	15 0 04551		SUB 0 MMS2
04212	22 0 04250		AJP 0 LINK
	51 4 00001		INI 4 1
04213	10 4 00000		ENA 4 0
	14 0 05136		ADD 0 CURIN
04214	22 3 04217		AJP 3 /+3
	75 4 04361		SLJ 4 GETNS
04215	20 4 52000		STA 4 S
	73 0 05136		RSO 0 CURIN
04216	11 0 03777		INA 0 INSTOP
	22 7 04673		AJP 7 OUTBOUND
04217	16 0 04555		LDQ 0 RT15
	44 4 52000		LDL 4 S

04220	46 1 00000	SBL 1 0
	22 1 04243	AJP 1 SWOF
04221	10 0 00000	ENA 0 0
	20 5 00000	STA 5 SW
04222	44 1 00000 CANGOQ	LDL 1 0
	04 0 00000	ENQ 0 0
04223	25 0 05132	DVI 0 INT48
	21 0 04564	STQ 0 TEM
04224	11 0 00001	INA 0 1
	05 0 00011	ALS 0 11
04225	14 4 52000	ADD 4 S
	14 0 05135	ADD 0 TRANLOC
04226	60 0 04230	SAU 0 /+2
	53 2 04564	LIL 2 TEM
04227	04 0 00001	ENQ 0 1
	06 2 00000	QLS 2 0
04230	44 0 76567	LDL 0 76567
	22 0 04245	AJP 0 SWT1
04231	12 4 52000	LDA 4 S
	14 0 05135	ADD 0 TRANLOC
04232	61 0 04234	SAL 0 /+2
	10 4 00000	ENA 4 0
04233	60 5 00017	SAU 5 GOAL+10
	12 1 00000	LDA 1 0
04234	61 5 00016	SAL 5 GOAL+10
	12 0 76567	LDA 0 76567
04235	50 0 00000	ENI 0 0
	20 5 00015	STA 5 IVAR+10
04236	10 5 64000	ENA 5 PAR

	61 5 00014		SAL 5 MAC+10
04237	10 0 04245		ENA 0 SWT1
	60 5 00013		SAU 5 REXIT+10
04240	10 0 04323		ENA 0 CHASE
	61 5 00012		SAL 5 REXIT+10
04241	51 5 00010		INI 5 10
	10 5 71310		ENA 5 NEGBIN
04242	22 6 04673		AJP 6 OUTBOUND
	75 0 04175		SLJ 0 ROUST
04243	10 0 77776	SWOF	ENA 0 -1
	20 5 00011		STA 5 SW
04244	75 0 04222		SLJ 0 CANGOQ
	00 0 00000		00 0 0
04245	36 5 00010	SWT1	SSK 5 SW
	75 0 04323		SLJ 0 CHASE
04246	12 5 64000		LDA 5 COUNTS
	20 0 04564		STA 0 TEM
04247	52 4 04564		LIU 4 TEM
	50 0 00000		ENI 0 0
04250	12 1 00000	LINK	LDA 1 0
	20 0 04564		STA 0 TEM
04251	52 1 04564		LIU 1 TEM
	10 1 00000		ENA 1 0
04252	22 1 04206		AJP 1 COMP
	12 5 00007		LDA 5 IVAR
04253	20 0 04564		STA 0 TEM
	52 1 04564		LIU 1 TEM
04254	10 0 77776		ENA 0 -1
	20 5 00006		STA 5 SW

04255	12 5 00005	LDA	5 MAC
	01 0 00030	ARS	0 30
04256	22 1 04331	AJP	1 SNAKE
	12 1 00001	LDA	1 1
04257	15 0 04551	SUB	0 MMS2
	22 1 04316	AJP	1 LNKSUB
04260	10 1 00002	EQTST	ENA 1 2
	03 0 00017	LRS	0 17
04261	10 4 00000	ENA	4 0
	03 0 00017	LRS	0 17
04262	12 5 00004	LDA	5 GOAL
	01 0 00030	ARS	0 30
04263	03 0 00017	LRS	0 17
	10 0 00004	ENA	0 4
04264	03 0 00003	LRS	0 3
	21 5 64000	STQ	5 PAR
04265	16 0 04555	LDQ	0 RT15
	44 1 00000	LDL	1 0
04266	46 5 00003	SBL	5 GOAL
	22 1 04273	AJP	1 COMPATST
04267	12 5 00002	LDA	5 MAC
	50 0 00000	ENI	0 0
04270	61 0 04271	SAL	0 /+1
	10 3 42000	ENA	3 OTP
04271	41 0 04570	SCL	0 LF33
	20 0 76567	STA	0 76567
04272	10 0 00000	ENA	0 0
	20 5 00001	STA	5 SW
04273	16 0 04555	COMPATST	LDQ 0 RT15

	44 5 00000		LDL 5 GOAL
04274	04 0 00000		ENQ 0 0
	25 0 05132		DVI 0 INT48
04275	21 0 04564		STQ 0 TEM
	11 0 00001		INA 0 1
04276	05 0 00011		ALS 0 11
	50 0 00000		ENI 0 0
04277	16 0 04555		LDQ 0 RT15
	45 1 00000		ADL 1 0
04300	14 0 05135		ADD 0 TRANLOC
	61 0 04302		SAL 0 /+2
04301	53 2 04564		LIL 2 TEM
	04 0 00001		ENQ 0 1
04302	06 2 00000		QLS 2 0
	44 0 76567		LDL 0 76567
04303	22 0 04315		AJP 0 SWTST
	16 0 04555		LDQ 0 RT15
04304	44 1 00000		LDL 1 0
	50 0 00000		ENI 0 0
04305	14 0 05135		ADD 0 TRANLOC
	60 0 04306		SAU 0 /+1
04306	12 0 76567		LDA 0 76567
	20 5 00000		STA 5 IVAR+10
04307	10 0 04315		ENA 0 SWTST
	60 5 00017		SAU 5 REXIT+10
04310	10 0 04341	ROUSTX	ENA 0 GFOTP
	61 5 00016		SAL 5 REXIT+10
04311	12 5 00015		LDA 5 MAC
	20 5 00014		STA 5 MAC+10

04312	12 5 00013		LDA 5 GOAL
	20 5 00012		STA 5 GOAL+10
04313	51 5 00010		INI 5 10
	10 5 71310		ENA 5 NEGBIN
04314	22 6 04673		AJP 6 OUTBOUND
	75 0 04175		SLJ 0 ROUST
04315	36 5 00011	SWTST	SSK 5 SW
	75 0 04341		SLJ 0 GFOTP
04316	12 1 00000	LNKSUB	LDA 1 0
	20 0 04564		STA 0 TEM
04317	52 1 04564		LIU 1 TEM
	10 1 00000		ENA 1 0
04320	22 0 04333		AJP 0 ERRX
	50 0 00000		ENI 0 0
04321	12 1 00001	SNBACK	LDA 1 1
	15 0 04551		SUB 0 MMS2
04322	22 1 04316		AJP 1 LNKSUB
	75 0 04260		SLJ 0 EQTST
04323	10 1 00001	CHASE	ENA 1 1
	60 5 00010		SAU 5 IVAR+10
04324	10 0 04246		ENA 0 SWT1+1
	60 5 00007		SAU 5 REXIT+10
04325	10 0 04341		ENA 0 GFOTP
	61 5 00006		SAL 5 REXIT+10
04326	75 0 04311		SLJ 0 ROUSTX+1
	00 0 00000		00 0 0
04327	12 5 64000	RESTJ	LDA 5 COUNTS
	20 0 04564		STA 0 TEM
04330	52 4 04564		LIU 4 TEM

	75	0	04321		SLJ	0	SNBACK
04331	60	5	00005	SNAKE	SAU	5	IVAR+10
	10	0	04327		ENA	0	RESTJ
04332	60	5	00004		SAU	5	REXIT+10
	75	0	04310		SLJ	0	ROUSTX
04333	12	5	64000	ERRX	LDA	5	COUNTS
	20	0	04564		STA	0	TEM
04334	52	4	04564		LIU	4	TEM
	53	3	04564		LIL	3	TEM
04335	12	5	00003		LDA	5	REXIT
	01	0	00030		ARS	0	30
04336	61	0	04340	BOTHXIT	SAL	0	/+2
	12	5	00002		LDA	5	IVAR
04337	20	0	04564		STA	0	TEM
	53	1	04564		LIL	1	TEM
04340	51	5	77767		INI	5	-10
	75	0	76567		SLJ	0	76567
04341	12	5	64000	GFOTP	LDA	5	PAR
	20	3	42000		STA	3	OTP
04342	51	3	00001		INI	3	1
	10	3	67777		ENA	3	NEGMAXOT
04343	22	6	04673		AJP	6	OUTBOUND
	50	0	00000		ENI	0	0
04344	12	5	00001	GFNDX	LDA	5	REXIT
	75	0	04336		SLJ	0	BOTHXIT
04345	20	0	04564	LIMITEST	STA	0	TEM
	56	4	04566		SIU	4	LOCN
04346	57	4	04566		SIL	4	LOCN
	15	0	04566		SUB	0	LOCN

04347	41 0 04560		SCL 0 TSTMSK
	50 0 00000		ENI 0 0
04350	64 0 04561		EQS 0 TSTBITS
	75 0 04250		SLJ 0 LINK
04351	12 5 64000		LDA 5 QUAL
	15 0 04564		SUB 0 TEM
04352	41 0 04560		SCL 0 TSTMSK
	50 0 00000		ENI 0 0
04353	64 0 04561		EQS 0 TSTBITS
	75 0 04250		SLJ 0 LINK
04354	12 0 04564		LDA 0 TEM
	20 5 64000		STA 5 QUAL
04355	10 1 00001		ENA 1 1
	60 5 00000		SAU 5 MAC
04356	75 0 04250		SLJ 0 LINK
	00 0 00000		00 0 0
04357	40 0 77776	QUALCON	40 0 77776
	00 1 77776		00 1 77776
04360	50 0 00000		ENI 0 0
	50 6 00000		ENI 6 0
04361	75 0 00000	GETNS	SLJ 0 0
	57 6 04360		SIL 6 /-1
04362	75 4 01411		SLJ 4 INTRAN
	00 0 00000		00 0 0
04363	53 6 04567		LIL 6 SPCHIX
	50 0 00000		ENI 0 0
04364	64 6 04525		EQS 6 SPCHRS
	75 0 04360		SLJ 0 GETNS-1
04365	75 0 04362		SLJ 0 GETNS+1

	00 0 00000	(11)	00 0 0
04366	20 0 05137	NEWSYN	STA 0 MEMLO
	10 0 00000		ENA 0 0
04367	07 0 00030		LLS 0 30
	22 0 04371		AJP 0 /+2
04370	61 0 04412		SAL 0 SYNIX
	50 0 00000		ENI 0 0
04371	10 0 06000		ENA 0 ONETRAN
	23 0 04373		QJP 0 /+2
04372	10 0 06400		ENA 0 TWOTRAN
	50 0 00000		ENI 0 0
04373	61 0 05135		SAL 0 TRANLOC
	16 0 05137		LDQ 0 MEMLO
04374	23 0 04376		QJP 0 /+2
	10 0 00000		ENA 0 MEMORYI
04375	60 0 04362		SAU 0 GETNS+1
	75 0 04401		SLJ 0 /+4
04376	16 0 05142		LDQ 0 DEFTAB
	10 0 01411		ENA 0 INTRAN
04377	60 0 04362		SAU 0 GETNS+1
	12 0 05144		LDA 0 PTIN
04400	75 4 01203		SLJ 4 DEFINE
	00 0 00000		00 0 0
04401	12 0 05135		LDA 0 TRANLOC
	60 0 04404		SAU 0 /+3
04402	50 4 00000		ENI 4 0
	50 0 00000		ENI 0 0
04403	10 0 00000		ENA 0 0
	50 5 00377		ENI 5 377

> 00 0 0

MEMORYI SLJ 0 0

LDA 7 MEMLO

STA 0 CNTZERO

RAO 0 MEMLO

LDA 0 CNTZERO

SLJ 0 MEMORYI

04404	20 5 76567		STA 5 76567
	55 5 04404		IJP 5 /
04405	12 0 05145		LDA 0 MEMIN
	70 0 04404		RAD 0 /-1
04406	54 4 00005		ISK 4 5
	75 0 04403		SLJ 0 /-3
04407	10 0 77776		ENA 0 -1
	20 0 04457		STA 0 ALOWDUP
04410	75 4 04413		SLJ 4 SYNTAB
	00 0 00000		00 0 0
04411	76 0 04366		SLS 0 NEWSYN
	00 0 00000		00 0 0
04412	00 0 00000	SYNIX	OCT 12000
	00 0 12000		
04413	75 0 00000	SYNTAB	SLJ 0 0
	53 5 04412		LIL 5 SYNIX
04414	10 0 00000		ENA 0 0
	20 0 64000		STA 0 P
04415	20 0 64000		STA 0 Q
	10 0 00004		ENA 0 4
04416	20 0 04567		STA 0 SPCHIX
	50 0 00000		ENI 0 0
04417	75 4 04361		SLJ 4 GETNS
	00 0 00000		00 0 0
04420	14 0 05135	CONT	ADD 0 TRANLOC
	60 0 04421		SAU 0 /+1
04421	50 1 76567		ENI 1 76567
	75 4 04361		SLJ 4 GETNS
04422	20 0 04471		STA 0 NSYMBOL

	50 0 00000		ENI 0 0
04423	16 0 04562	B240	LDQ 0 SYM
	44 1 00000		LDL 1 0
04424	22 0 04472		AJP 0 ENTX
	20 0 04564		STA 0 TEM
04425	52 1 04564		LIU 1 TEM
	12 0 04471		LDA 0 NSYMBOL
04426	16 0 04555		LDQ 0 RT15
	46 1 00000		SBL 1 0
04427	22 1 04423		AJP 1 B240
	51 1 00001		INI 1 1
04430	75 4 04361		SLJ 4 GETNS
	00 0 00000		00 0 0
04431	20 0 04471		STA 0 NSYMBOL
	50 0 00000		ENI 0 0
04432	64 0 04551		EQS 0 MMS2
	75 0 04460		SLJ 0 TSTB1TP
04433	15 1 00000		SUB 1 0
	22 1 04462		AJP 1 DIFKIND
04434	72 0 64000	FEED	RAO 0 P
	50 0 00000		ENI 0 0
04435	75 4 04361		SLJ 4 GETNS
	00 0 00000		00 0 0
04436	64 0 04552		EQS 0 MMS3
	75 0 04441		SLJ 0 /+3
04437	73 0 64000		RSO 0 P
	22 1 04435		AJP 1 /-2
04440	04 0 00004		ENQ 0 4
	75 0 04516		SLJ 0 B302+3

04441	64 0 04551		EQS 0 MMS2
	75 0 04435		SLJ 0 /-4
04442	75 0 04434		SLJ 0 /-6
	00 0 00000		00 0 0
04443	75 4 04361	TESTDUP	SLJ 4 GETNS
	00 0 00000		00 0 0
04444	64 0 04551		EQS 0 MMS2
	75 0 04450		SLJ 0 TABLDF
04445	03 0 00017		LRS 0 17
	12 1 00001		LDA 1 1
04446	15 0 04551		SUB 0 MMS2
	22 0 04434		AJP 0 FEED
04447	07 0 00017		LLS 0 17
	50 0 00000		ENI 0 0
04450	61 0 04455	TABLDF	SAL 0 GETLS+1
	12 0 04362		LDA 0 GETNS+1
04451	01 0 00030		ARS 0 30
	61 0 04454		SAL 0 GETLS
04452	10 0 04454		ENA 0 GETLS
	50 0 00000		ENI 0 0
04453	60 0 04362		SAU 0 GETNS+1
	75 0 04473		SLJ 0 ENTER
04454	75 0 00000	GETLS	SLJ 0 0
	10 0 76567		ENA 0 76567
04455	60 0 04362		SAU 0 GETNS+1
	10 0 76567		ENA 0 76567
04456	75 0 04454		SLJ 0 GETLS
	00 0 00000		00 0 0
04457	00 0 00000	ALOWDUP	OCT 0

	00	0	000000				
04460	12	1	000000	TSTBITP	LDA	1	0
	50	0	000000		ENI	0	0
04461	64	0	04551		EQS	0	MMS2
	75	0	04470		SLJ	0	/+7
04462	51	1	77776	DIFKIND	INI	1	-1
	16	0	04471		LDQ	0	NSYMBOL
04463	12	1	000000		LDA	1	0
	61	0	04471		SAL	0	NSYMBOL
04464	44	0	04555		LDL	0	RT15
	61	0	04455		SAL	0	GETLS+1
04465	12	0	04362		LDA	0	GETNS+1
	01	0	00030		ARS	0	30
04466	61	0	04454		SAL	0	GETLS
	10	0	04454		ENA	0	GETLS
04467	60	0	04362		SAU	0	GETNS+1
	75	0	04423		SLJ	0	B240
04470	12	0	04471		LDA	0	NSYMBOL
	75	0	04426		SLJ	0	B240+3
04471	00	0	000000	NSYMBOL	OCT	0	
	00	0	000000				
04472	36	0	04457	ENTX	SSK	0	ALOWDUP
	75	0	04443		SLJ	0	TESTDUP
04473	10	5	000000	ENTER	ENA	5	L
	60	1	000000		SAU	1	0
04474	12	0	04471		LDA	0	NSYMBOL
	75	0	04476		SLJ	0	/+2
04475	75	4	04361		SLJ	4	GETNS
	00	0	000000		00	0	0

04476	20 5 00000	STA 5 L
	51 5 00001	INI 5 1
04477	04 5 35777	ENQ 5 NEGMATB
	23 6 04673	QJP 6 OUTBOUND
04500	15 0 04551	SUB 0 MMS2
	22 1 04513	AJP 1 B302
04501	10 0 00000	ENA 0 0
	20 0 04567	STA 0 SPCHIX
04502	72 0 64000	RAO 0 P
	11 0 77776	INA 0 -1
04503	22 1 04513	AJP 1 B302
	12 5 77775	LDA 5 L-2
04504	04 0 00000	ENQ 0 0
	25 0 05132	DVI 0 INT48
04505	21 0 04564	STQ 0 TEM
	05 0 00011	ALS 0 11
04506	50 0 00000	ENI 0 0
	11 0 01000	INA 0 1000
04507	61 0 04512	SAL 0 /+3
	60 0 04512	SAU 0 /+3
04510	53 2 04564	LIL 2 TEM
	10 0 00001	ENA 0 1
04511	05 2 00000	ALS 2 0
	52 2 04421	LIU 2 CONT+1
04512	40 2 76567	SST 2 76567
	20 2 76567	STA 2 76567
04513	12 5 77776 B302	LDA 5 L-1
	15 0 04552	SUB 0 MMS3
04514	22 1 04475	AJP 1 ENTER+2

	73 0 64000		RSO 0 P	
04515	22 1 04475		AJP 1 ENTER+2	
	04 0 00004		ENQ 0 4	
04516	21 0 04567		STQ 0 SPCHIX	
	75 4 04361		SLJ 4 GETNS	
04517	15 0 04552		SUB 0 MMS3	
	22 0 04531		AJP 0 THRU	
04520	14 0 04552		ADD 0 MMS3	
	75 0 04420		SLJ 0 CONT	
04521	00 0 00000	TYPELIST	OCT 167	MMS8 RETURN
	00 0 00167			
04522	00 0 00000		OCT 170	MMS9 RETURN
	00 0 00170			
04523	00 0 00000		OCT 164	MMS5 FUNCTION
	00 0 00164			
04524	00 0 00000		OCT 165	MMS6 PARAMETER
	00 0 00165			
04525	00 0 00000	SPCHRS	OCT 115	TAB
	00 0 00115			
04526	00 0 00000		OCT 155	CR
	00 0 00155			
04527	00 0 00000		OCT 156	
	00 0 00156			
04530	00 0 00000		OCT 160	
	00 0 00160			
04531	57 5 04412	THRU	SIL 5 SYNIX	
	75 0 05122		SLJ 0 TRANEX	
04532	75 0 04164	TLISTLNK	SLJ 0 RETURN	
	00 0 00000		00 0 0	

04533	75 0 04164		SLJ 0 RETURN
	00 0 00000		00 0 0
04534	75 0 04143		SLJ 0 FCN
	00 0 00000		00 0 0
04535	75 0 04070		SLJ 0 PARAM
	00 0 00000		00 0 0
04536	75 0 04676	FNBASE	SLJ 0 FCNA
	00 0 00000		00 0 0
04537	75 0 04722		SLJ 0 FCNB
	00 0 00000		00 0 0
04540	00 0 00000		OCT 0
	00 0 00000		
04541	75 0 04735		SLJ 0 FCND
	00 0 00000		00 0 0
04542	75 0 04745		SLJ 0 FCNE
	00 0 00000		00 0 0
04543	75 0 04761		SLJ 0 FCNF
	00 0 00000		00 0 0
04544	75 0 05044		SLJ 0 FCNG
	00 0 00000		00 0 0
04545	00 0 00000		BSS 4
	00 0 00000		
04551	00 0 00000	MMS2	OCT 161
	00 0 00161		
04552	00 0 00000	MMS3	OCT 162
	00 0 00162		
04553	00 0 00000	MMS4	OCT 163
	00 0 00163		
04554	00 0 00000	MMS8	OCT 167

	00 0 00167				
04555	00 0 00000	RT15	OCT	77777	
	00 0 77777				
04556	00 0 00000	BLANK	OCT	377	
	00 0 00377				
04557	40 0 00000	SGNB	OCT	400000000000000000	
	00 0 00000				
04560	77 6 77777	TSTMSK	OCT	7767777777677777	
	77 6 77777				
04561	00 0 00000	TSTBITS	OCT	0000000000100000	
	00 1 00000				
04562	00 0 77777	SYM	OCT	77777000000000	
	00 0 00000				
04563	00 0 00000	N	OCT	0	
	00 0 00000				
04564	00 0 00000	TEM	OCT	0	
	00 0 00000				
04565	00 0 00000	SUBIX	OCT	55000	
	00 0 55000				
04566	00 0 00000	LOCN	OCT	0	
	00 0 00000				
04567	00 0 00000	SPCHIX	OCT	0	
	00 0 00000				
04570	77 7 77777	LF33	OCT	777777777700000	
	77 7 00000				

T	EQV	0
IVAR	EQV	BIN
GOAL	EQV	BIN+1
MAC	EQV	BIN+2

REXIT	EQV	BIN+3
QUAL	EQV	BIN+4
COUNTS	EQV	BIN+5
SW	EQV	BIN+6
PAR	EQV	BIN+7
EXIT	EQV	BIN
RR	EQV	BIN+1
VKEEP	EQV	BIN+2
TE	EQV	BIN+3
NKEEP	EQV	BIN+4
SBIXKEEP	EQV	BIN+5
SUBLKEEP	EQV	BIN+6
P	EQV	BIN+7
Q	EQV	BIN+10

RETURN LINK

R = ADDRESS OF MACRO CALL IN OTP

TEMPORARY FOR J = B1

TEMPORARY

TEMPORARY FOR N

TEMPORARY FOR SUBIX

TEMPORARY FOR NEXT ENTRY IN SUBL

04571	75 0 00000	INTLZ	SLJ 0 0
	50 0 00000		ENI 0 0
04572	10 0 71310		ENA 0 NEGBIN
	42 0 04555		SCM 0 RT15
04573	20 0 04564		STA 0 TEM
	53 4 04564		LIL 4 TEM
04574	10 0 00000		ENA 0 0
	20 0 04563		STA 0 N
04575	20 4 64000		STA 4 BIN
	55 4 04575		IJP 4 /
04576	10 0 63767		ENA 0 EXIT-11
	61 0 04734		SAL 0 LABEL
04577	50 0 00000		ENI 0 0
	10 0 56000		ENA 0 ISBIX
04600	61 0 04565		SAL 0 SUBIX

	10 0 06742		ENA 0 TWOTRAN+342
04601	61 0 04744		SAL 0 CNAD
	10 0 00004		ENA 0 4
04602	20 0 04567		STA 0 SPCHIX
	75 0 04571		SLJ 0 INTLZ
04603	50 0 00000	COSYN	ENI 0 0
	10 0 06000		ENA 0 ONETRAN
04604	61 0 05135		SAL 0 TRANLOC
	10 0 00001		ENA 0 1
04605	20 0 05146		STA 0 PUTIKR
	75 4 04571		SLJ 4 INTLZ
04606	16 0 05141		LDQ 0 INTAB
	12 0 05144		LDA 0 PTIN
04607	75 4 01203		SLJ 4 DEFINE
	00 0 00000		00 0 0
04610	50 4 00000		ENI 4 0
	10 0 01411		ENA 0 INTRAN
04611	60 0 04362		SAU 0 GETNS+1
	75 4 04361		SLJ 4 GETNS
04612	20 4 52000		STA 4 S
	50 3 00000		ENI 3 0
04613	10 0 00002		ENA 0 2
	20 0 05143		STA 0 PASSNO
04614	10 0 77776		ENA 0 -1
	20 0 05136		STA 0 CURIN
04615	50 5 00010	PASSTWO	ENI 5 10
	12 4 52000		LDA 4 S
04616	14 0 05135		ADD 0 TRANLOC
	60 0 04617		SAU 0 /+1

04617	12 0 76567	LDA 0 76567
	20 5 64000	STA 5 IVAR
04620	12 0 04675	LDA 0 PROGSY
	20 5 64001	STA 5 GOAL
04621	50 0 00000	ENI 0 0
	10 0 64006	ENA 0 SW
04622	61 5 64002	SAL 5 MAC
	10 0 04674	ENA 0 ARRGH
04623	60 5 64003	SAU 5 REXIT
	10 0 04625	ENA 0 GOGO
04624	61 5 64003	SAL 5 REXIT
	75 0 04175	SLJ 0 ROUST
04625	50 5 00000 GOGO	ENI 5 0
	50 6 00000	ENI 6 0
04626	10 0 06400	ENA 0 TWOTRAN
	20 0 05135	STA 0 TRANLOC
04627	12 0 64006	LDA 0 SW
	61 0 04630	SAL 0 /+1
04630	61 0 64001	SAL 0 RR
	53 1 76567	LIL 1 76567
04631	10 0 04633	ENA 0 /+2
	20 0 64000	STA 0 EXIT
04632	75 0 04001	SLJ 0 TRANSYM
	00 0 00000	00 0 0
04633	73 0 05143	RSO 0 PASSNO
	22 0 04670	AJP 0 COMPLETE
04634	10 0 00162	ENA 0 162
	20 6 62001	STA 6 OTPX+1
04635	20 6 62002	STA 6 OTPX+2

	10 0 00017		ENA 0 MEMORYI
04636	60 0 04362		SAU 0 GETNS+1
	50 0 00000		ENI 0 0
04637	10 0 62001		ENA 0 OTPX+1
	61 0 05137		SAL 0 MEMLO
04640	10 0 00000		ENA 0 0
	20 0 04457		STA 0 ALOWDUP
04641	75 4 04413		SLJ 4 SYNTAB
	00 0 00000		00 0 0
04642	10 0 52000		ENA 0 S
	61 0 05137		SAL 0 MEMLO
04643	50 3 00000		ENI 3 0
	75 4 04571		SLJ 4 INTLZ
04644	50 4 00000		ENI 4 0
	10 0 00000		ENA 0 0
04645	37 0 05150		SSH 0 OUTRNK
	37 0 05150		SSH 0 OUTRNK
04646	20 0 05146		STA 0 PUTIKR
	12 0 05151		LDA 0 PROTR
04647	16 0 05152		LDQ 0 PROTT
	75 4 01203		SLJ 4 DEFINE
04650	75 0 04615		SLJ 0 PASSTWO
	00 0 00000		00 0 0
04651	75 0 00000	ASSEMBLE	SLJ 0 0
	56 6 04666		SIU 6 CALLOTR+1
04652	10 6 00000		ENA 6 0
	22 0 04651		AJP 0 ASSEMBLE
04653	50 6 00001		ENI 6 1
	50 0 00000		ENI 0 0

04654	12 6 62000	OUTLOOP	LDA 6 OTPX
	50 0 00000		ENI 0 0
04655	64 0 05147		EQS 0 MMS0
	75 0 04665		SLJ 0 CALLOTR
04656	37 0 05150		SSH 0 OUTRKN
	75 0 04662		SLJ 0 SECOUT
04657	12 0 05151		LDA 0 PROTR
	16 0 05152		LDQ 0 PROTT
04660	75 4 01203		SLJ 4 DEFINE
	00 0 00000		00 0 0
04661	75 0 04666		SLJ 0 CALLOTR+1
	00 0 00000		00 0 0
04662	12 0 05153	SECOUT	LDA 0 SCOTR
	16 0 05154		LDQ 0 SCOTT
04663	75 4 01203		SLJ 4 DEFINE
	00 0 00000		00 0 0
04664	10 0 00155		ENA 0 155
	50 0 00000		ENI 0 0
04665	75 4 01512	CALLOTR	SLJ 4 OUTRAN
	00 0 00000		00 0 0
04666	54 6 76567		ISK 6 76567
	75 0 04654		SLJ 0 OUTLOOP
04667	75 0 04651		SLJ 0 ASSEMBLE
	00 0 00000		00 0 0
04670	51 6 00001	COMPLETE	INI 6 1
	10 0 00360		ENA 0 360
04671	20 6 62000		STA 6 OTPX
	75 4 04651		SLJ 4 ASSEMBLE
04672	75 0 04000		SLJ 0 COMPILE

	00 0 00000		00 0 0
04673	76 0 04603	OUTBOUND	SLS 0 COSYN
	75 0 04673		SLJ 0 /
04674	10 0 76567	ARRGH	ENA 0 76567
	76 0 04603		SLS 0 COSYN
04675	00 0 00000	PROGSY	OCT 117
	00 0 00117		
04676	12 0 05146	FCNA	LDA 0 PUTIKR
	24 0 04732		MUI 0 NEG11
04677	11 5 64000		INA 5 EXIT
	61 0 04720		SAL 0 LABLOCN
04700	12 0 04720		LDA 0 LABLOCN
	15 0 04734		SUB 0 LABEL
04701	22 3 04705		AJP 3 LABINC
	12 7 04734		LDA 7 LABEL
04702	41 0 04570		SCL 0 LF33
	20 7 04734		STA 7 LABEL
04703	10 0 00011		ENA 0 11
	70 0 04734		RAD 0 LABEL
04704	75 0 04700		SLJ 0 /-4
	50 0 00000		ENI 0 0
04705	12 0 04721	LABINC	LDA 0 UPRI
	70 7 04720		RAD 7 LABLOCN
04706	01 0 00030		ARS 0 30
	50 0 00000		ENI 0 0
04707	57 4 04733	MAKLABL	SIL 4 CURL
	50 4 00004		ENI 4 4
04710	03 0 00005		LRS 0 5
	22 0 04712		AJP 0 /+2

04711	51 4 00001		INI	4 1
	75 0 04710		SLJ	0 /-1
04712	12 0 04720		LDA	0 LABLOCN
	03 0 00017		LRS	0 17
04713	10 0 00334		ENA	0 334
	50 0 00000		ENI	0 0
04714	20 6 62001		STA	6 OTPX+1
	51 6 00001		INI	6 1
04715	10 0 00000		ENA	0 0
	07 0 00005		LLS	0 5
04716	55 4 04714		IJP	4 /-2
	53 4 04733		LIL	4 CURL
04717	75 0 04003		SLJ	0 PI
	00 0 00000		00	0 0
04720	00 0 00000	LABLOCN	OCT	0
	00 0 00000			
04721	00 0 00001	UPR1	OCT	100000000
	00 0 00000			
04722	20 0 04733	FCNB	STA	0 CURL
	10 6 00000		ENA	6 0
04723	15 0 04733		SUB	0 CURL
	53 6 04733		LIL	6 CURL
04724	20 0 04733		STA	0 CURL
	12 0 05146		LDA	0 PUTIKR
04725	24 0 04732		MUI	0 NEG11
	11 5 64000		INA	5 EXIT
04726	61 0 04720		SAL	0 LABLOCN
	16 0 04733		LDQ	0 CURL
04727	12 7 04720		LDA	7 LABLOCN

	01 0 00030		ARS 0 30
04730	41 0 04570		SCL 0 LF33
	23 0 04707		QJP 0 MAKLABL
04731	15 6 62002		SUB 6 OTPX+2
	75 0 04707		SLJ 0 MAKLABL
04732	77 7 77777	NEG11	OCT -11
	77 7 77766		
04733	00 0 00000	CURL	OCT 0
	00 0 00000		
04734	00 0 00000	LABEL	OCT 0
	00 0 00000		
04735	72 0 04744	FCND	RAO 0 CNAD
	15 0 05135		SUB 0 TRANLOC
04736	51 6 00001		INI 6 1
	20 6 62000		STA 6 OTPX
04737	12 5 64001		LDA 5 RR
	60 0 04740		SAU 0 /+1
04740	12 0 76567		LDA 0 76567
	03 0 00036		LRS 0 36
04741	02 0 00011		QRS 0 11
	41 0 04570		SCL 0 LF33
04742	45 0 04562		ADL 0 SYM
	14 0 04557		ADD 0 SGNB
04743	20 7 04744		STA 7 CNAD
	75 0 04003		SLJ 0 PI
04744	00 0 00000	CNAD	OCT 22500
	00 0 22500		
04745	20 0 04733	FCNE	STA 0 CURL
	10 6 77775		ENA 6 -2

04746	15 0 04733		SUB 0 CURL
	53 6 04733		LIL 6 CURL
04747	75 4 04751		SLJ 4 CVTODG
	00 0 00000		00 0 0
04750	75 0 04003		SLJ 0 PI
	00 0 00000		00 0 0
04751	75 0 00000	CVTODG	SLJ 0 0
	57 2 04757		SIL 2 /+6
04752	50 2 00000		ENI 2 0
	50 0 00000		ENI 0 0
04753	03 0 00003		LRS 0 3
	22 0 04755		AJP 0 /+2
04754	51 2 00001		INI 2 1
	75 0 04753		SLJ 0 /-1
04755	10 0 00000		ENA 0 0
	07 0 00003		LLS 0 3
04756	51 6 00001		INI 6 1
	20 6 62000		STA 6 OTPX
04757	55 2 04755		IJP 2 /-2
	50 2 76567		ENI 2 76567
04760	75 0 04751		SLJ 0 CVTODG
	00 0 00000		00 0 0
04761	16 0 05032	FCNF	LDQ 0 MASK
	47 0 05035		STL 0 FIRSTSYM
04762	72 0 05035		RAO 0 FIRSTSYM
	57 6 05036		SIL 6 LASTSYM
04763	44 0 05036		LDL 0 LASTSYM
	15 0 05035		SUB 0 FIRSTSYM
04764	11 0 00001		INA 0 1

	20 0 05037	STA 0 TOTSYM
04765	26 0 05033	MUF 0 FACTOR1
	07 0 00002	LLS 0 2
04766	11 0 00004	INA 0 4
	20 0 05040	STA 0 TOTOUT
04767	12 0 05037	LDA 0 TOTSYM
	26 0 05034	MUF 0 FACTOR2
04770	11 0 00001	INA 0 1
	14 0 05040	ADD 0 TOTOUT
04771	11 0 76277	INA 0 NEGOTPX
	22 6 04673	AJP 6 OUTBOUND
04772	57 4 05041	SIL 4 CONTB4
	57 5 05042	SIL 5 CONTB5
04773	12 0 05040	LDA 0 TOTOUT
	14 0 05035	ADD 0 FIRSTSYM
04774	61 0 05043	SAL 0 LPACK
	53 6 05043	LIL 6 LPACK
04775	53 5 05036	LIL 5 LASTSYM
	56 5 05002	SIU 5 /+5
04776	50 0 00000	ENI 0 0
	50 0 00000	ENI 0 0
04777	53 5 05035	LIL 5 FIRSTSYM
	04 0 00377	ENQ 0 377
05000	10 0 00001	ENA 0 1
	50 4 00005	ENI 4 5
05001	05 0 00010	ALS 0 10
	45 5 62000	ADL 5 OTPX
05002	54 5 00000	ISK 5 0
	75 0 05005	SLJ 0 /+3

05003	55 4 05010	IJP 4 /+5
	11 0 77776	INA 0 77776
05004	20 6 62000	STA 6 OTPX
	75 0 05012	SLJ 0 /+6
05005	55 4 05001	IJP 4 /-4
	11 0 77776	INA 0 77776
05006	20 6 62000	STA 6 OTPX
	51 6 00001	INI 6 1
05007	75 0 05000	SLJ 0 /-7
	00 0 00000	00 0 0
05010	34 0 00077	SCA 0 77
	05 0 00002	ALS 0 2
05011	11 0 77776	INA 0 77776
	20 6 62000	STA 6 OTPX
05012	56 6 05027	SIU 6 /+130
	53 5 05043	LIL 5 LPACK
05013	53 6 05035	LIL 6 FIRSTSYM
	04 0 00007	ENQ 0 7
05014	10 0 00155	ENA 0 155
	20 6 62000	STA 6 OTPX
05015	10 0 00115	ENA 0 115
	20 6 62001	STA 6 OTPX+1
05016	10 0 00030	ENA 0 30
	20 6 62002	STA 6 OTPX+2
05017	10 0 00014	ENA 0 14
	20 6 62003	STA 6 OTPX+3
05020	10 0 00035	ENA 0 35
	20 6 62004	STA 6 OTPX+4
05021	10 0 00156	ENA 0 156

	20 6 62005		STA 6 OTPX+5
05022	10 6 62000		ENA 6 OTPX
	11 0 00006		INA 0 6
05023	60 0 05025		SAU 0 /+2
	51 6 00026		INI 6 22D
05024	50 4 00017		ENI 4 15D
	12 5 62000		LDA 5 OTPX
05025	47 4 00000		STL 4 0
	01 0 00003		ARS 0 3
05026	55 4 05025		IJP 4 /-1
	75 0 05027		SLJ 0 /+1
05027	54 5 00000		ISK 5 0
	75 0 05014		SLJ 0 /-11D
05030	53 4 05041		LIL 4 CONTB4
	53 5 05042		LIL 5 CONTB5
05031	51 6 77776		INI 6 77776
	75 0 04003		SLJ 0 PI
05032	00 0 00000	MASK	OCT 77777
	00 0 77777		
05033	35 1 51515	FACTOR1	OCT 35151515151515
	15 1 51515		
05034	05 1 51515	FACTOR2	OCT 5151515151515
	15 1 51515		
05035	00 0 00000	FIRSTSYM	OCT 0
	00 0 00000		
05036	00 0 00000	LASTSYM	OCT 0
	00 0 00000		
05037	00 0 00000	TOTSYM	OCT 0
	00 0 00000		

05040	00 0 00000	TOTOUT	OCT	0
	00 0 00000			
05041	00 0 00000	CONTB4	OCT	0
	00 0 00000			
05042	00 0 00000	CONTB5	OCT	0
	00 0 00000			
05043	00 0 00000	LPACK	OCT	0
	00 0 00000			
05044	57 2 04564	FCNG	SIL	2 TEM
	53 2 04412		LIL	2 SYNIX
05045	10 0 00307		ENA	0 307
	50 0 00000		ENI	0 0
05046	64 2 00000		EQS	2 0
	75 0 05073		SLJ	0 GOHOME
05047	12 2 00003		LDA	2 3
	15 0 05155		SUB	0 TAAB
05050	22 0 05073		AJP	0 GOHOME
	10 0 00155		ENA	0 155
05051	20 6 62001		STA	6 OTPX+1
	51 6 00001		INI	6 1
05052	56 2 04564		SIU	2 TEM
	12 2 00000		LDA	2 0
05053	20 6 62001	GENTAG	STA	6 OTPX+1
	51 6 00001		INI	6 1
05054	51 2 00001		INI	2 1
	12 2 00000		LDA	2 0
05055	64 0 04552		EQS	0 MMS3
	75 0 05053		SLJ	0 GENTAG
05056	16 0 05074		LDQ	0 OPCD

	50 2 00004		ENI 2 4
05057	10 0 00000		ENA 0 0
	07 0 00010		LLS 0 10
05060	20 6 62001		STA 6 OTPX+1
	51 6 00001		INI 6 1
05061	55 2 05057		IJP 2 /-2
	52 2 04564		LIU 2 TEM
05062	12 2 00001		LDA 2 1
	50 0 00000		ENI 0 0
05063	20 6 62001	GENM	STA 6 OTPX+1
	51 6 00001		INI 6 1
05064	51 2 00001		INI 2 1
	12 2 00001		LDA 2 1
05065	64 0 05075		EQS 0 PLUS
	75 0 05067		SLJ 0 /+2
05066	10 0 00051		ENA 0 51
	75 0 05063		SLJ 0 GENM
05067	64 0 05076		EQS 0 MINUS
	75 0 05071		SLJ 0 /+2
05070	10 0 00052		ENA 0 52
	75 0 05063		SLJ 0 GENM
05071	64 0 04552		EQS 0 MMS3
	75 0 05063		SLJ 0 GENM
05072	52 2 04564		LIU 2 TEM
	75 0 05045		SLJ 0 FCNG+1
05073	53 2 04564	GOHOME	LIL 2 TEM
	75 0 04003		SLJ 0 PI
05074	23 2 06416	OPCD	OCT 2320641603067000
	03 0 67000		

05075	00 0 00000	PLUS	OCT	12
	00 0 00012			
05076	00 0 00000	MINUS	OCT	13
	00 0 00013			
05077	56 6 05116	EXTEND	SIU	6 NEXTBIT+1
	51 6 77720		INI	6 -57
05100	50 2 00357		ENI	2 357
	10 0 00001		ENA	0 1
05101	66 2 76567		MEQ	2 76567
	75 0 05115		SLJ	0 NEXTBIT
05102	51 2 76567		INI	2 76567
	51 6 76567		INI	6 76567
05103	12 2 01000		LDA	2 TRAN1
	40 6 01000		SST	6 TRAN1
05104	20 2 01000		STA	2 TRAN1
	12 2 02000		LDA	2 TRAN2
05105	40 6 02000		SST	6 TRAN2
	20 2 02000		STA	2 TRAN2
05106	12 2 03000		LDA	2 TRAN3
	40 6 03000		SST	6 TRAN3
05107	20 2 03000		STA	2 TRAN3
	12 2 04000		LDA	2 TRAN4
05110	40 6 04000		SST	6 TRAN4
	20 2 04000		STA	2 TRAN4
05111	12 2 05000		LDA	2 TRAN5
	40 6 05000		SST	6 TRAN5
05112	20 2 05000		STA	2 TRAN5
	44 0 05130		LDL	0 ALL7
05113	51 2 76567		INI	2 76567

	51 6 76567		INI 6 76567
05114	75 0 05101		SLJ 0 EXTEND+2
	00 0 00000		00 0 0
05115	07 0 00001	NEXTBIT	LLS 0 1
	50 2 00357		ENI 2 357
05116	54 6 00357		ISK 6 357
	75 0 05101		SLJ 0 EXTEND+2
05117	12 0 05131	NEWTRAN	LDA 0 UPER400
	71 0 05101		RSB 0 EXTEND+2
05120	52 6 05116		LIU 6 NEXTBIT+1
	51 6 77720		INI 6 -57
05121	55 6 05077		IJP 6 EXTEND
	75 0 04413		SLJ 0 SYNTAB
05122	12 0 05135	TRANEX	LDA 0 TRANLOC
	60 0 05102		SAU 0 EXTEND+3
05123	61 0 05102		SAL 0 EXTEND+3
	42 0 05130		SCM 0 ALL7
05124	60 0 05113		SAU 0 EXTEND+14
	61 0 05113		SAL 0 EXTEND+14
05125	12 0 05135		LDA 0 TRANLOC
	11 0 05000		INA 0 TRANS
05126	60 0 05101		SAU 0 EXTEND+2
	04 0 00001		ENQ 0 1
05127	50 6 00357		ENI 6 357
	75 0 05077		SLJ 0 EXTEND
05130	77 7 77777	ALL7	OCT 7777777777777777
	77 7 77777		
05131	00 0 01000	UPER400	OCT 1000000000000
	00 0 00000		

05132 00 0 00000 INT48 OCT 60
00 0 00060

L EQV 0
NEGMAXTB EQV 35777
OTP EQV 42000
NEGMAXOT EQV 67777
SUBL EQV 63400

05133 00 0 00000 NSTOP OCT 377
00 0 00377

S EQV 52000
INSTOP EQV 3777
OTPX EQV 62000
NEGOTPX EQV 76277
ISBIX EQV 56000

05134 00 0 00000 SUBXSTOP OCT 61777
00 0 61777

BIN EQV 64000
NEGBIN EQV 71310
ONETRAN EQV 6000
TWOETRAN EQV 6400
TRAN1 EQV 1000
TRAN2 EQV 2000
TRAN3 EQV 3000
TRAN4 EQV 4000
TRAN5 EQV 5000
DEFINE EQV 1203
INTRAN EQV 1411
OUTRAN EQV 1512

05135 00 0 00000 TRANLOC OCT 0

	00 0 00000				
05136	00 0 00000	CURIN	OCT	0	
	00 0 00000				
05137	00 0 00000	MEMLO	OCT	0	
	00 0 00000				
05140	00 0 00000	CNTZRO	OCT	0	
	00 0 00000				
05141	00 0 00000	INTAB	OCT	76000	
	00 0 76000				
05142	00 0 00000	DEFTAB	OCT	76000	
	00 0 76000				
05143	00 0 00000	PASSNO	OCT	0	
	00 0 00000				
05144	00 0 01653	PTIN		00 0 1653	
	00 0 01645			00 0 1645	
05145	00 0 01000	MEMIN		00 0 01000	
	00 0 00000			00 0 00000	
05146	00 0 00000	PUTIKR	OCT	0	
	00 0 00000				
05147	00 0 00000	MMS0	OCT	160	
	00 0 00160				
05150	25 2 52525	OUTRNK	OCT	25252525252525	
	25 2 52525				
05151	00 0 01707	PROTR		00 0 1707	
	00 0 00000			00 0 0	
05152	00 0 00000	PROTT	OCT	72500	
	00 0 72500				
05153	00 0 01604	SCOTR		00 0 1604	
	00 0 00000			00 0 0	

05154

00 0 00000

SCOTT

OCT

70000

SCOTT

OCT

74000

00 0 70000

05155

00 0 00000

TAAB

OCT

115

00 0 00115

END

SKIP LO	TPX	0 5
SKIP LO	CRTN	0 1
SKIP LO	PAPERI	0 9
SKIP LO	DOWT	0 3
SKIP LO	WTCK	0 3
SKIP LO	WER	0 1
SKIP LO	WEOF	0 3
M SYMBOL	PARAM	0 2
M SYMBOL	STARTSUB	0 9
M SYMBOL	STARTSUB	0 0
M SYMBOL	STARTSUB	0 2
M SYMBOL	MACFORPM	0 8
M SYMBOL	MACFORPM	0 3
M SYMBOL	B220	0 0
M SYMBOL	B220	0 1
M SYMBOL	B220	0 3
M SYMBOL	RETURN	0 0
M SYMBOL	DEBUGAID	0 0
M SYMBOL	DEBUGAID	0 8
M SYMBOL	ROUST	0 7
M SYMBOL	ROUST	0 9
M SYMBOL	ROUST	0 2
M SYMBOL	ROUST	0 6
M SYMBOL	COMP	0 3
TWOPASS/	COMP	0 3
M SYMBOL	CANGOQ	0 8
M SYMBOL	CANGOQ	0 0
M SYMBOL	CANGOQ	0 3

M SYMBOL	CANGOQ	Ø 5
M SYMBOL	CANGOQ	Ø 7
M SYMBOL	CANGOQ	Ø 9
M SYMBOL	SWCF	Ø 1
M SYMBOL	SWTI	Ø Ø
M SYMBOL	LINK	Ø 5
M SYMBOL	LINK	Ø 9
M SYMBOL	LINK	Ø Ø
M SYMBOL	EQTST	Ø 4
M SYMBOL	EQTST	Ø 2
M SYMBOL	EQTST	Ø 4
M SYMBOL	EQTST	Ø 1
M SYMBOL	COMPATST	Ø 1
M SYMBOL	COMPATST	Ø 3
TWOPASS/	COMPATST	Ø 3
M SYMBOL	COMPATST	Ø 5
M SYMBOL	ROUSTX	Ø 1
M SYMBOL	ROUSTX	Ø 2
M SYMBOL	ROUSTX	Ø 3
M SYMBOL	ROUSTX	Ø 4
M SYMBOL	ROUSTX	Ø 5
M SYMBOL	SWTST	Ø Ø
M SYMBOL	CHASE	Ø 1
M SYMBOL	CHASE	Ø 3
M SYMBOL	CHASE	Ø 5
M SYMBOL	SNAKE	Ø Ø
M SYMBOL	SNAKE	Ø 2
M SYMBOL	ERRX	Ø 4
M SYMBOL	BOTHXIT	Ø 1

M SYMBOL	GFNDX	0 0
M SYMBOL	LIMITEST	0 7
M SYMBOL	NEWSYN	0 3
TWOPASS/	NEWSYN	0 3
DUP= TAG	QUAL	0 0
DUP= TAG	COUNTS	0 0
DUP= TAG	PAR	0 0
DUP= TAG	VKEEP	0 0
DUP= TAG	TE	0 0
DUP= TAG	NKEEP	0 0
DUP= TAG	SBIXKEEP	0 0
DUP= TAG	SUBLKEEP	0 0
DUP= TAG	P	0 0
DUP= TAG	Q	0 0
M SYMBOL	GOGO	0 7
SKIP LO	GOGO	0 3

FUSBUGET 7

1/13/61

			ORG	3000
03000	75 0 03013	FUSBUGET	SLJ	0 FUSENT
	75 0 03013		SLJ	0 FUSENT
03001	75 0 00000		SLJ	0 0
	75 0 03374		SLJ	0 ARMOVE
03002	75 0 00000		SLJ	0 0
	75 0 00000		SLJ	0 0
03003	75 0 00000		SLJ	0 0
	75 0 03407		SLJ	0 DIVS
03004	75 0 03261	RECURS	SLJ	0 RECENT
	75 0 03261		SLJ	0 RECENT
03005	75 0 03334		SLJ	0 GOINT
	75 0 03334		SLJ	0 GOINT
03006	75 0 03422		SLJ	0 PROXIT
	75 0 00000		SLJ	0 0
03007	76 0 00000	PANIC	SLS	0 0
	75 0 03007		SLJ	0 /
03010	75 0 00000		SLJ	0 0
	75 0 03426		SLJ	0 PRINT
03011	00 0 00777	EXIT	OCT	77776000000
	76 0 00000			
03012	75 0 76567		SLJ	0 76567
	75 0 03560		SLJ	0 INPUT
03013	50 0 00000	FUSENT	ENI	0 0
	30 0 03237		FAD	0 FIX
03014	15 0 03237		SUB	0 FIX
	61 0 03036		SAL	0 ENAME+1
03015	20 6 00000		STA	6 0

	16 6 77774		LDQ 6 -3
03016	23 3 03044		QJP 3 OWN
	72 6 77774		RAO 6 -3
03017	11 0 77776		INA 0 -1
	60 0 03034		SAU 0 DMOVE+2
03020	70 6 00000		RAD 6 0
	13 6 00000		LAC 6 0
03021	11 0 77776		INA 0 -1
	60 0 03032		SAU 0 DMOVE
03022	12 6 77775		LDA 6 -2
	61 0 03250		SAL 0 NAME
03023	10 6 77775		ENA 6 -2
	41 0 03241		SCL 0 LF33
03024	15 6 77774		SUB 6 -3
	15 0 03250		SUB 0 NAME
03025	60 0 03041		SAU 0 ENAME+4
	12 6 00000		LDA 6 0
03026	60 6 77774		SAU 6 -3
	51 6 77775		INI 6 -2
03027	12 6 00001		LDA 6 1
	60 0 03042		SAU 0 ENAME+5
03030	50 1 00000		ENI 1 0
	50 2 00000		ENI 2 0
03031	75 0 03035		SLJ 0 ENAME
	00 0 00000		00 0 0
03032	12 6 76567	DMOVE	LDA 6 76567
	20 6 00000		STA 6 0
03033	51 6 00001		INI 6 1
	50 0 00000		ENI 0 0

03034	54 1 76567		ISK 1 76567
	75 0 03032		SLJ 0 DMOVE
03035	12 7 03250	ENAME	LDA 7 NAME
	60 0 03036		SAU 0 /+1
03036	57 6 76567		SIL 6 76567
	51 6 76567		INI 6 76567
03037	10 6 00000		ENA 6 0
	42 0 03240		SCM 0 ALL7
03040	11 5 00000		INA 5 0
	22 2 03007		AJP 2 PANIC
03041	54 2 76567		ISK 2 76567
	75 0 03032		SLJ 0 DMOVE
03042	10 0 76567		ENA 0 76567
	20 6 00000		STA 6 0
03043	51 6 00001		INI 6 1
	75 0 03000		SLJ 0 FUSBUGET
03044	42 0 03240	OWN	SCM 0 ALL7
	61 0 03076		SAL 0 CREATE+1
03045	13 6 77774		LAC 6 -3
	20 6 77774		STA 6 -3
03046	20 0 03251		STA 0 DIMS
	11 0 77775		INA 0 -2
03047	60 0 03214		SAU 0 CONTINUE+3
	11 0 00001		INA 0 1
03050	70 6 00000		RAD 6 0
	72 6 77774		RAO 6 -3
03051	60 0 03126		SAU 0 NEWDX
	61 0 03126		SAL 0 NEWDX
03052	12 6 77775		LDA 6 -2

	61 0 03250		SAL 0 NAME
03053	10 6 77775		ENA 6 -2
	41 0 03241		SCL 0 LF33
03054	15 6 77774		SUB 6 -3
	61 0 03114		SAL 0 FOUND+3
03055	60 0 03104		SAU 0 Y9
	15 0 03250		SUB 0 NAME
03056	60 0 03235		SAU 0 REPEAT+1
	60 0 03071		SAU 0 REPSCH+6
03057	12 6 00000		LDA 6 0
	60 6 77774		SAU 6 -3
03060	50 2 00000		ENI 2 0
	50 0 00000		ENI 0 0
03061	16 0 03364	SEARCH	LDQ 0 RT15
	53 1 03252		LIL 1 LIMIT
03062	12 1 00000		LDA 1 0
	75 0 03065		SLJ 0 /+3
03063	44 7 03250	REPSCH	LDL 7 NAME
	46 1 00000		SBL 1 0
03064	22 0 03111		AJP 0 FOUND
	12 1 00000		LDA 1 0
03065	20 0 03254		STA 0 TEM
	57 1 03253		SIL 1 LAST
03066	52 1 03254		LIU 1 TEM
	10 1 00000		ENA 1 0
03067	22 1 03063		AJP 1 REPSCH
	50 0 00000		ENI 0 0
03070	75 4 03075		SLJ 4 CREATE
	00 0 00000		00 0 0

03071	54 2 00000		ISK 2
	75 0 03070		SLJ 0 /-1
03072	12 6 77776		LDA 6 -1
	53 6 03250		LIL 6 NAME
03073	20 6 00000		STA 6 0
	51 6 00001		INI 6 1
03074	75 0 03000		SLJ 0 FUSBUGET
	00 0 00000		00 0 0
03075	75 0 00000	CREATE	SLJ 0 0
	50 0 00000		ENI 0 0
03076	57 5 03107		SIL 5 Y3
	51 5 00000		INI 5
03077	10 5 00000		ENA 5 0
	42 0 03240		SCM 0 ALL7
03100	11 6 00000		INA 6 0
	14 0 03251		ADD 0 DIMS
03101	22 2 03007		AJP 2 PANIC
	12 7 03250		LDA 7 NAME
03102	60 0 03103		SAU 0 /+1
	10 5 00000		ENA 5 0
03103	61 0 76567		SAL 0 76567
	53 4 03251		LIL 4 DIMS
03104	12 4 76567	Y9	LDA 4 76567
	20 5 77776		STA 5 -1
03105	51 5 77776		INI 5 -1
	55 4 03104		IJP 4 /-1
03106	44 7 03250		LDL 7 NAME
	20 5 77776		STA 5 -1
03107	10 5 77776	Y3	ENA 5 -1

	60 0 76567		SAU 0 76567
03110	51 5 77776		INI 5 -1
	75 0 03075		SLJ 0 CREATE
03111	10 2 00000	FOUND	ENA 2 0
	22 1 03117		AJP 1 NEWDIMS
03112	51 1 00001		INI 1 1
	56 1 03114		SIU 1 /+2
03113	53 4 03251		LIL 4 DIMS
	51 1 77776		INI 1 -1
03114	12 4 00000		LDA 4
	15 4 76567		SUB 4 76567
03115	22 1 03117		AJP 1 NEWDIMS
	55 4 03114		IJP 4 /-1
03116	75 0 03072		SLJ 0 REPSCH+7
	00 0 00000		00 0 0
03117	75 4 03075	NEWDIMS	SLJ 4 CREATE
	00 0 00000		00 0 0
03120	10 1 00000		ENA 1 0
	42 0 03240		SCM 0 ALL7
03121	14 0 03253		ADD 0 LAST
	61 0 03255		SAL 0 LENGTH
03122	57 1 03253		SIL 1 LAST
	10 0 00000		ENA 0 0
03123	20 0 03246		STA 0 BASO
	20 0 03247		STA 0 BASN
03124	12 0 03242		LDA 0 FONE
	20 0 03244		STA 0 DPRO
03125	20 0 03245		STA 0 DPRN
	50 0 00000		ENI 0 0

03126	51 5 00000	NEWDX	INI	5
	51 1 00000		INI	1
03127	10 5 00001		ENA	5 1
	61 0 03202		SAL	0 ARRAYNM+2
03130	10 1 00001		ENA	1 1
	61 0 03200		SAL	0 ARRAYNM
03131	56 2 03234		SIU	2 REPEAT
	53 2 03251		LIL	2 DIMS
03132	51 2 77776		INI	2 -1
	10 0 00001		ENA	0 1
03133	61 0 03373		SAL	0 INCO
	60 0 03373		SAU	0 INCO
03134	12 1 77776	MOVESET	LDA	1 -1
	31 5 77776		FSB	5 -1
03135	20 0 03256		STA	0 VRBL
	30 1 77775		FAD	1 -2
03136	31 5 77775		FSB	5 -2
	42 0 03240		SCM	0 ALL7
03137	36 0 03256		SSK	0 VRBL
	75 0 03143		SLJ	0 WLBOLD
03140	42 0 03240		SCM	0 ALL7
	50 0 00000		ENI	0 0
03141	22 3 03142		AJP	3 /+1
	10 0 00000		ENA	0 0
03142	30 5 77775		FAD	5 -2
	75 0 03145		SLJ	0 GOT
03143	22 3 03144	WLBOLD	AJP	3 /+1
	10 0 00000		ENA	0 0
03144	30 1 77775		FAD	1 -2

	50 0 00000		ENI 0 0
03145	20 0 03257	GOT	STA 0 COUNT
	22 3 03221		AJP 3 COMPACT-1
03146	22 0 03221		AJP 0 COMPACT-1
	12 5 77776		LDA 5 -1
03147	36 0 03256		SSK 0 VRBL
	12 1 77776		LDA 1 -1
03150	20 0 03256		STA 0 VRBL
	31 1 77776		FSB 1 -1
03151	32 0 03244		FMU 0 DPRO
	30 0 03246		FAD 0 BASO
03152	20 0 03246		STA 0 BASO
	12 0 03256		LDA 0 VRBL
03153	31 5 77776		FSB 5 -1
	32 0 03245		FMU 0 DPRN
03154	30 0 03247		FAD 0 BASN
	20 0 03247		STA 0 BASN
03155	12 1 77775		LDA 1 -2
	31 0 03257		FSB 0 COUNT
03156	32 0 03244		FMU 0 DPRO
	30 0 03237		FAD 0 FIX
03157	60 0 03260		SAU 0 INC
	12 5 77775		LDA 5 -2
03160	31 0 03257		FSB 0 COUNT
	32 0 03245		FMU 0 DPRN
03161	30 0 03237		FAD 0 FIX
	61 0 03260		SAL 0 INC
03162	12 0 03244		LDA 0 DPRO
	32 1 77775		FMU 1 -2

03163	20 0 03244		STA 0 DPRO
	12 0 03245		LDA 0 DPRN
03164	32 5 77775		FMU 5 -2
	20 0 03245		STA 0 DPRN
03165	12 0 03257		LDA 0 COUNT
	30 0 03237		FAD 0 FIX
03166	15 0 03237		SUB 0 FIX
	11 0 77776		INA 0 -1
03167	20 1 77776		STA 1 -1
	60 1 77776		SAU 1 -1
03170	12 0 03373		LDA 0 INCO
	16 0 03260		LDQ 0 INC
03171	21 0 03373		STQ 0 INCO
	20 1 77775		STA 1 -2
03172	51 1 77775		INI 1 -2
	51 5 77775		INI 5 -2
03173	51 2 77776		INI 2 -1
	55 2 03134		IJP 2 MOVESET
03174	57 1 03207		SIL 1 TEST
	57 1 03212		SIL 1 CONTINUE+1
03175	56 1 03217		SIU 1 HIGHER+1
	57 1 03216		SIL 1 HIGHER
03176	51 1 77776		INI 1 -1
	56 1 03206		SIU 1 LOOP+1
03177	56 1 03211		SIU 1 CONTINUE
	12 0 03246		LDA 0 BASO
03200	30 0 03237	ARRYNM	FAD 0 FIX
	11 0 00000		INA 0
03201	60 0 03205		SAU 0 LOOP

	12 0 03247		LDA 0 BASN
03202	30 0 03237		FAD 0 FIX
	11 0 00000		INA 0
03203	61 0 03205		SAL 0 LOOP
	50 0 00000		ENI 0 0
03204	52 2 03214	LAUNCH	LIU 2 CONTINUE+3
	51 2 00001		INI 2 1
03205	12 0 76567	LOOP	LDA 0 76567
	20 0 76567		STA 0 76567
03206	12 2 76567		LDA 2 76567
	70 0 03205		RAD 0 LOOP
03207	12 0 03243	TEST	LDA 0 UPR1
	71 2 76567		RSB 2 76567
03210	22 3 03216		AJP 3 HIGHER
	75 0 03205		SLJ 0 LOOP
03211	12 2 76567	CONTINUE	LDA 2 76567
	70 0 03205		RAD 0 LOOP
03212	12 0 03243		LDA 0 UPR1
	71 2 76567		RSB 2 76567
03213	22 3 03216		AJP 3 HIGHER
	51 2 00001		INI 2 1
03214	54 2 76567		ISK 2 76567
	75 0 03211		SLJ 0 CONTINUE
03215	75 0 03204		SLJ 0 LAUNCH
	00 0 00000		00 0 0
03216	14 0 03243	HIGHER	ADD 0 UPR1
	20 2 00000		STA 2
03217	60 2 00000		SAU 2
	51 2 77776		INI 2 -1

03220	55 2 03211		IJP 2 CONTINUE
	50 0 00000		ENI 0 0
03221	50 0 00000		ENI 0 0
	53 5 03253		LIL 5 LAST
03222	12 5 00000	COMPACT	LDA 5 0
	01 0 00030		ARS 0 30
03223	22 0 03234		AJP 0 REPEAT
	60 0 03224		SAU 0 7+1
03224	50 5 76567		ENI 5 76567
	12 5 00000		LDA 5 0
03225	61 0 03226		SAL 0 Y4
	12 0 03255		LDA 0 LENGTH
03226	50 0 00000	Y4	ENI 0 0
	70 0 76567		RAD 0 76567
03227	56 5 03232		SIU 5 Y5
	57 5 03232		SIL 5 Y5
03230	12 0 03255		LDA 0 LENGTH
	70 0 03232		RAD 0 Y5
03231	53 1 03255		LIL 1 LENGTH
	51 1 77776		INI 1 -1
03232	12 1 00000	Y5	LDA 1
	20 1 00000		STA 1
03233	55 1 03232		IJP 1 Y5
	75 0 03222		SLJ 0 COMPACT
03234	50 2 76567	REPEAT	ENI 2 76567
	53 5 03232		LIL 5 Y5
03235	54 2 76567		ISK 2 76567
	75 0 03061		SLJ 0 SEARCH
03236	75 0 03072		SLJ 0 REPSCH+7

	00 0 00000		00 0 0		
03237	20 4 46000	FIX	OCT	204460000000000000	
	00 0 00000				
03240	77 7 77777	ALL7	OCT	7777777777777777	
	77 7 77777				
03241	77 7 77777	LF33	OCT	7777777777700000	
	77 7 00000				
03242	20 0 14000	FONE	OCT	2001400000000000	
	00 0 00000				
03243	00 0 00001	UPR1	OCT	100000000	
	00 0 00000				
03244	00 0 00000	DPRO	OCT	0	
	00 0 00000				
03245	00 0 00000	DPRN	OCT	0	
	00 0 00000				
03246	00 0 00000	BASO	OCT	0	
	00 0 00000				
03247	00 0 00000	BASN	OCT	0	
	00 0 00000				
03250	00 0 00000	NAME	OCT	200000	
	00 2 00000				
03251	00 0 00000	DIMS	OCT	0	
	00 0 00000				
03252	00 0 20000	LIMIT	OCT	2000000040000	
	00 0 40000				
03253	00 0 00000	LAST	OCT	0	
	00 0 00000				
03254	00 0 00000	TEM	OCT	0	
	00 0 00000				

03255	00 0 00000	LENGTH	OCT	0
	00 0 00000			
03256	00 0 00000	VRBL	OCT	0
	00 0 00000			
03257	00 0 00000	COUNT	OCT	0
	00 0 00000			
03260	00 0 00000	INC	OCT	0
	00 0 00000			
03261	50 0 00000	RECENT	ENI	0 0
	01 0 00030		ARS	0 30
03262	60 0 03362		SAU	0 THUNK
	61 0 03362		SAL	0 THUNK
03263	42 0 03240		SCM	0 ALL7
	11 6 00000		INA	6 0
03264	61 0 03366		SAL	0 INCR
	44 0 03240		LDL	0 ALL7
03265	61 0 03011		SAL	0 EXIT
	53 1 03011		LIL	1 EXIT
03266	50 2 00000		ENI	2 0
	12 7 03362		LDA	7 THUNK
03267	01 0 00030		ARS	0 30
	50 0 00000		ENI	0 0
03270	16 0 03364		LDQ	0 RT15
	46 0 03362		SBL	0 THUNK
03271	20 0 03370		STA	0 DIMST
	60 0 03370		SAU	0 DIMST
03272	11 0 77776		INA	0 -1
	57 6 03363		SIL	6 THUNKLO
03273	60 0 03310		SAU	0 NOLMOD+3

	10 0 00000		ENA 0 0
03274	20 0 03371		STA 0 MODFR
	57 6 03372		SIL 6 HOLD
03275	16 0 03364	RELOCATE	LDQ 0 RT15
	44 7 03362		LDL 7 THUNK
03276	46 0 03362		SBL 0 THUNK
	22 3 03301		AJP 3 NORMOD
03277	67 0 03370		MTH 0 DIMST
	75 0 03301		SLJ 0 NORMOD
03300	12 0 03366		LDA 0 INCR
	61 0 03371		SAL 0 MODFR
03301	16 0 03365	NORMOD	LDQ 0 SYM
	44 7 03362		LDL 7 THUNK
03302	46 0 03362		SBL 0 THUNK
	22 3 03305		AJP 3 NOLMOD
03303	67 0 03370		MTH 0 DIMST
	75 0 03305		SLJ 0 NOLMOD
03304	12 0 03366		LDA 0 INCR
	60 0 03371		SAU 0 MODFR
03305	12 0 03371	NOLMOD	LDA 0 MODFR
	14 7 03362		ADD 7 THUNK
03306	20 6 00000		STA 6 0
	10 0 00000		ENA 0 0
03307	20 0 03371		STA 0 MODFR
	51 6 00001		INI 6 1
03310	54 2 00000		ISK 2
	75 0 03275		SLJ 0 RELOCATE
03311	56 6 03372		SIU 6 HOLD
	50 0 00000		ENI 0 0

03312	50 0 00000	PUSHDN	ENI 0 0
	12 1 00000		LDA 1 0
03313	20 0 03367		STA 0 LINK
	51 6 00001		INI 6 1
03314	41 0 03241		SCL 0 LF33
	60 0 03327		SAU 0 NOL
03315	16 0 03364		LDQ 0 RT15
	53 3 03370		LIL 3 DIMST
03316	66 7 03363		MEQ 7 THUNKLO
	75 0 03322		SLJ 0 NOR
03317	20 0 03254		STA 0 TEM
	10 6 77776		ENA 6 -1
03320	61 7 03363		SAL 7 THUNKLO
	12 0 03254		LDA 0 TEM
03321	75 0 03316		SLJ 0 /-3
	50 0 00000		
03322	07 0 00030	NOR	LLS 0 30
	53 3 03370		LIL 3 DIMST
03323	66 7 03363		MEQ 7 THUNKLO
	75 0 03327		SLJ 0 NOL
03324	20 0 03254		STA 0 TEM
	10 6 77776		ENA 6 -1
03325	60 7 03363		SAU 7 THUNKLO
	12 0 03254		LDA 0 TEM
03326	75 0 03323		SLJ 0 /-3
	50 0 00000		ENI 0 0
03327	12 0 00000	NOL	LDA 0
	20 6 77776		STA 6 -1
03330	52 1 03367		LIU 1 LINK

	10 1 00000		ENA 1 0
03331	22 1 03312		AJP 1 PUSHDN
	50 0 00000		ENI 0 0
03332	12 0 03372	POLISH	LDA 0 HOLD
	20 6 00000		STA 6 0
03333	51 6 00001		INI 6 1
	75 0 03004		SLJ 0 RECURS
03334	41 0 03241	GOINT	SCL 0 LF33
	61 0 03341		SAL 0 DOEXIT-1
03335	20 0 03254		STA 0 TEM
	16 0 03011		LDQ 0 EXIT
03336	10 0 00000		ENA 0 0
	07 0 00017		LLS 0 17
03337	65 0 03254		THS 0 TEM
	75 0 03342		SLJ 0 DOEXIT
03340	10 0 00000		ENA 0 0
	07 0 00017		LLS 0 17
03341	15 0 03254		SUB 0 TEM
	22 2 76567		AJP 2 76567
03342	75 4 03344	DOEXIT	SLJ 4 XXIT
	00 0 00000		00 0 0
03343	75 0 03336		SLJ 0 GOINT+2
	00 0 00000		00 0 0
03344	75 0 00000	XXIT	SLJ 0 0
	50 0 00000		ENI 0 0
03345	12 6 77776		LDA 6 -1
	20 0 03245		STA 0 DPRN
03346	53 6 03245		LIL 6 DPRN
	50 0 00000		ENI 0 0

03347	23 0 03360		QJP 0 NOPOP
	07 0 00022		LLS 0 22
03350	60 0 03367		SAU 0 LINK
	12 6 77776		LDA 6 -1
03351	20 0 03372		STA 0 HOLD
	52 6 03372		LIU 6 HOLD
03352	52 1 03367	POP	LIU 1 LINK
	10 1 00000		ENA 1 0
03353	22 0 03357		AJP 0 NOPOP-1
	12 1 00000		LDA 1 0
03354	20 0 03367		STA 0 LINK
	12 6 00000		LDA 6 0
03355	20 7 03367		STA 7 LINK
	51 6 00001		INI 6 1
03356	75 0 03352		SLJ 0 POP
	00 0 00000		00 0 0
03357	53 6 03372		LIL 6 HOLD
	50 0 00000		ENI 0 0
03360	51 6 77776	NOPOP	INI 6 -1
	16 6 00000		LDQ 6 0
03361	21 0 03011		STQ 0 EXIT
	75 0 03344		SLJ 0 XXIT
03362	00 0 00000	THUNK	OCT 200000
	00 2 00000		
03363	00 0 00000	THUNKLO	OCT 300000
	00 3 00000		
03364	00 0 00000	RT15	OCT 77777
	00 0 77777		
03365	00 0 77777	SYM	OCT 77777000000000

	00 0 00000				
03366	00 0 00000	INCR	OCT	0	
	00 0 00000				
03367	00 0 00000	LINK	OCT	0	
	00 0 00000				
03370	00 0 00000	DIMST	OCT	0	
	00 0 00000				
03371	00 0 00000	MODFR	OCT	0	
	00 0 00000				
03372	00 0 00000	HOLD	OCT	0	
	00 0 00000				
03373	00 0 00000	INCO	OCT	0	
	00 0 00000				
03374	10 4 00000	ARMOVE	ENA	4 0	
	41 0 03241		SCL	0 LF33	
03375	16 0 03364		LDQ	0 RT15	
	46 4 77776		SBL	4 -1	
03376	61 0 03402		SAL	0 MOV	
	10 6 00000		ENA	6 0	
03377	41 0 03241		SCL	0 LF33	
	61 0 03402		SAL	0 MOV	
03400	14 4 77776		ADD	4 -1	
	20 0 03254		STA	0 TEM	
03401	52 2 03254		LIU	2 TEM	
	56 2 03404		SIU	2 MOV+2	
03402	12 0 76567	MOV	LDA	0 76567	
	20 0 76567		STA	0 76567	
03403	55 2 03402		IJP	2 MOV	
	12 6 77776		LDA	6 -1	

03404	51 6 76567		INI 6 76567
	20 6 00001		STA 6 1
03405	51 6 00002		INI 6 2
	44 0 03254		LDL 0 TEM
03406	75 0 03001		SLJ 0 FUSBUGET+1
	00 0 00000		00 0 0
03407	21 0 03245	DIVS	STQ 0 DPRN
	30 0 03237		FAD 0 FIX
03410	15 0 03237		SUB 0 FIX
	20 0 03254		STA 0 TEM
03411	12 0 03245		LDA 0 DPRN
	30 0 03237		FAD 0 FIX
03412	15 0 03237		SUB 0 FIX
	04 0 00000		ENQ 0 0
03413	22 2 03414		AJP 2 /+1
	04 0 77777		ENQ 0 77777
03414	25 0 03254		DVI 0 TEM
	20 0 03254		STA 0 TEM
03415	44 0 03240		LDL 0 ALL7
	14 0 03237		ADD 0 FIX
03416	31 0 03237		FSB 0 FIX
	20 0 03245		STA 0 DPRN
03417	12 0 03254		LDA 0 TEM
	14 0 03237		ADD 0 FIX
03420	31 0 03237		FSB 0 FIX
	16 0 03245		LDQ 0 DPRN
03421	75 0 03003		SLJ 0 FUSBUGET+3
	00 0 00000		00 0 0
03422	61 0 03425	PROXIT	SAL 0 /+3

	16 0 03011		LDQ 0 EXIT
03423	10 0 00000		ENA 0 0
	07 0 00036		LLS 0 36
03424	75 4 03344		SLJ 4 XXIT
	00 0 00000		00 0 0
03425	12 2 00000		LDA 2 0
	75 0 76567		SLJ 0 76567
03426	10 0 00155	PRINT	ENA 0 155
	75 4 01452		SLJ 4 OUTRAN
03427	12 0 03432		LDA 0 OUTPINF
	16 0 03433		LDQ 0 OUTPUTFW
03430	75 4 03567		SLJ 4 TADFIO
	00 0 00000		00 0 0
03431	75 0 03010		SLJ 0 PANIC+1
	00 0 00000		00 0 0
03432	00 0 00000	OUTPINF	00 0 0
	00 0 03010		00 0 PANIC+1
03433	00 0 00000	OUTPUTFW OCT	0
	00 0 00000		
03434	75 4 01452		SLJ 4 OUTRAN
	00 0 00000		00 0 0
03435	55 1 03437		IJP 1 7+2
	51 4 00001		INI 4 1
03436	16 4 00000		LDQ 4 0
	50 1 00005		ENI 1 5
03437	10 0 00000		ENA 0 0
	07 0 00010		LLS 0 10
03440	64 0 03443		EQS 0 ENDCHAR
	75 0 03434		SLJ 0 /-4

03441	10 0 00060		ENA	0 60
	50 0 00000		ENI	0 0
03442	75 0 76567	PSTRING	SLJ	0 76567
	75 0 03436		SLJ	0 /-4
03443	00 0 00000	ENDCHAR	OCT	377
	00 0 00377			
03444	75 0 76567	PBOOLVAR	SLJ	0 76567
	50 1 00000		ENI	1 0
03445	12 4 00000		LDA	4 0
	50 0 00000		ENI	0 0
03446	22 1 03447		AJP	1 /+1
	50 1 00001		ENI	1 1
03447	10 1 00132		ENA	1 132
	75 4 01452		SLJ	4 OUTRAN
03450	10 0 00060		ENA	0 60
	75 0 03444		SLJ	0 PBOOLVAR
03451	75 0 76567	PINTEGER	SLJ	0 76567
	12 4 00000		LDA	4 0
03452	20 0 03513		STA	0 VARIABLE
	50 1 00012		ENI	1 12
03453	22 2 03454		AJP	2 /+1
	13 0 03513		LAC	0 VARIABLE
03454	65 0 03514		THS	0 FEXP37
	75 0 03511		SLJ	0 FFR
03455	30 0 03237		FAD	0 FIX
	15 0 03237		SUB	0 FIX
03456	20 0 03513		STA	0 VARIABLE
	50 0 00000		ENI	0 0
03457	36 4 00000		SSK	4 0

	75 0 03461		SLJ 0 /+2
03460	13 0 03513		LAC 0 VARIABLE
	50 0 00000		ENI 0 0
03461	24 0 03515		MUI 0 TENE4
	75 4 03463		SLJ 4 PRNTPFIXI
03462	10 0 00060		ENA 0 60
	75 0 03451		SLJ 0 PINTEGER
03463	75 0 76567	PRNTPFIXI	SLJ 0 76567
	20 0 03513		STA 0 VARIABLE
03464	22 2 03465		AJP 2 /+1
	13 0 03513		LAC 0 VARIABLE
03465	50 4 03501		ENI 4 NZLD
	56 4 03467		SIU 4 /+2
03466	04 0 00000		ENQ 0 0
	75 0 03471		SLJ 0 /+3
03467	75 4 76567		SLJ 4 76567
	00 0 00000		00 0 0
03470	07 0 00060		LLS 0 60
	24 0 03516		MUI 0 TENE1
03471	25 0 03517		DVI 0 TENE14
	55 1 03467		IJP 1 /-2
03472	54 4 03501		ISK 4 NZLD
	75 0 03477		SLJ 0 /+5
03473	20 0 03520		STA 0 CHRTER
	10 0 00000		ENA 0 0
03474	36 0 03513		SSK 0 VARIABLE
	10 0 77776		ENA 0 77776
03475	11 0 00052		INA 0 52
	75 4 01452		SLJ 4 OUTRAN

03476	12 0 03520		LDA 0 CHRTER
	50 0 00000		ENI 0 0
03477	75 4 01452		SLJ 4 OUTRAN
	00 0 00000		00 0 0
03500	75 0 03463		SLJ 0 PRNTFIXI
	00 0 00000		00 0 0
03501	75 0 76567	NZLD	SLJ 0 76567
	22 1 03504		AJP 1 /+3
03502	10 0 00156		ENA 0 156
	75 4 01452		SLJ 4 OUTRAN
03503	75 0 03501		SLJ 0 NZLD
	00 0 00000		00 0 0
03504	20 0 03520		STA 0 CHRTER
	10 0 00000		ENA 0 0
03505	50 4 01452		ENI 4 OUTRAN
	56 4 03467		SIU 4 PRNTFIXI+4
03506	36 0 03513		SSK 0 VARIABLE
	10 0 77776		ENA 0 77776
03507	11 0 00052		INA 0 52
	75 4 01452		SLJ 4 OUTRAN
03510	12 0 03520		LDA 0 CHRTER
	75 0 03467		SLJ 0 PRNTFIXI+4
03511	75 4 03521	FFR	SLJ 4 PREALVAR
	00 0 00000		00 0 0
03512	75 0 03462		SLJ 0 PRNTFIXI-1
	00 0 00000		00 0 0
03513	00 0 00000	VARIABLE	OCT 0
	00 0 00000		
03514	20 4 30000	FEXP37	OCT 204300000000000000

	00 0 00000				
03515	00 0 00000	TENE4	DEC	10000	
	00 0 23420				
03516	00 0 00000	TENE1	OCT	12	
	00 0 00012				
03517	26 5 71420	TENE14	DEC	1000000000000000	
	36 4 40000				
03520	00 0 00000	CHRTER	OCT	0	
	00 0 00000				
03521	75 0 76567	PREALVAR	SLJ	0 76567	
	12 4 00000		LDA	4 0	
03522	22 2 03523		AJP	2 /+1	
	13 4 00000		LAC	4 0	
03523	50 1 00000		ENI	1 0	
	50 0 00000		ENI	0 0	
03524	36 4 00000		SSK	4 0	
	50 1 77776		ENI	1 77776	
03525	51 1 00052		INI	1 52	
	75 4 03550		SLJ	4 FPCONVRT	
03526	21 0 03545		STQ	0 EXPVAR	
	24 0 03516		MUI	0 TENE1	
03527	20 0 03513		STA	0 VARIABLE	
	07 0 00001		LLS	0 1	
03530	10 1 00000		ENA	1 0	
	75 4 01452		SLJ	4 OUTRAN	
03531	07 0 00060		LLS	0 60	
	75 4 01452		SLJ	4 OUTRAN	
03532	10 0 00044		ENA	0 44	
	75 4 01452		SLJ	4 OUTRAN	

03533	50 1 00015	ENI	1 15
	73 0 03545	RSO	0 EXPVAR
03534	12 0 03513	LDA	0 VARIABLE
	41 0 03546	SCL	0 SGNBIT
03535	24 0 03516	MUI	0 TENE1
	20 0 03513	STA	0 VARIABLE
03536	07 0 00061	LLS	0 61
	75 4 01452	SLJ	4 OUTRAN
03537	55 1 03534	IJP	1 /-3
	10 0 00156	ENA	0 156
03540	75 4 01452	SLJ	4 OUTRAN
	00 0 00000	00	0 0
03541	10 0 00045	ENA	0 45
	75 4 01452	SLJ	4 OUTRAN
03542	50 1 00003	ENI	1 3
	12 0 03545	LDA	0 EXPVAR
03543	24 0 03547	MUI	0 TENE10
	75 4 03463	SLJ	4 PRNTFIXI
03544	10 0 00060	ENA	0 60
	75 0 03521	SLJ	0 PREALVAR
03545	00 0 00000	EXPVAR	OCT 0
	00 0 00000		
03546	40 0 00000	SGNBIT	OCT 4000000000000000
	00 0 00000		
03547	00 0 13510	TENE10	DEC 100000000000
	35 5 64000		
03550	75 0 76567	FPCONVRT	SLJ 0 76567
	20 0 03545	STA	0 EXPVAR
03551	07 0 00014	LLS	0 14

	01 0 00001		ARS 0 1
03552	41 0 03546		SCL 0 SGNBIT
	20 0 03513		STA 0 VARIABLE
03553	12 0 03545		LDA 0 EXPVAR
	05 0 00001		ALS 0 1
03554	42 0 03546		SCM 0 SGNBIT
	14 0 03557		ADD 0 /+3
03555	03 0 00125		LRS 0 125
	12 0 03513		LDA 0 VARIABLE
03556	75 0 03550		SLJ 0 FPCONVRT
	00 0 00000		00 0 0
03557	00 0 20000		OCT 20000000000000
	00 0 00000		
03560	12 0 04123	INPUT	LDA 0 FORMWORD
	41 0 04124		SCL 0 ONE1
03561	22 1 03563		AJP 1 /+2
	10 0 00155		ENA 0 155
03562	75 4 01452		SLJ 4 OUTRAN
	00 0 00000		00 0 0
03563	12 0 04223		LDA 0 INPINF
	16 0 04125		LDQ 0 INPUTFW
03564	75 4 03567		SLJ 4 TADFIO
	00 0 00000		00 0 0
03565	12 0 04123		LDA 0 FORMWORD
	11 0 77775		INA 0 -2
03566	22 3 03012		AJP 3 EXIT+1
	75 0 03426		SLJ 0 PRINT
03567	75 0 76567	TADFIO	SLJ 0 76567
	21 0 04126		STQ 0 FWPERM

03570	61 0 03571	SAL 0 /+1
	01 0 00030	ARS 0 30
03571	60 0 03613	SAU 0 IORETURN+10
	52 2 76567	LIU 2 76567
03572	12 2 00000	LDA 2 0
	01 0 00030	ARS 0 30
03573	60 0 03010	SAU 0 PANIC+1
	60 0 03012	SAU 0 EXIT+1
03574	57 2 03575	SIL 2 /+1
	50 2 00000	ENI 2 0
03575	51 2 00001	INI 2 1
	12 2 76567	LDA 2 76567
03576	22 2 03575	AJP 2 /-1
	51 2 77776	INI 2 -1
03577	12 0 04126	LDA 0 FWPERM
	22 0 03602	AJP 0 /+3
03600	07 0 00003	LLS 0 3
	21 0 04127	STQ 0 FWTEMP
03601	21 0 04145	STQ 0 FORMCNT
	10 0 77776	ENA 0 -1
03602	20 0 04146	STA 0 FORMFLAG
	50 0 00000	ENI 0 0
03603	10 0 00000	IORETURN ENA 0 0
	20 0 04130	STA 0 ERRSNS
03604	12 7 03575	LDA 7 TADFI0+6
	60 0 03605	SAU 0 /+1
03605	75 4 76567	SLJ 4 76567
	00 0 00000	00 0 0
03606	04 0 00000	ENQ 0 0

	03 0 00011	LRS 0 11
03607	05 0 00017	ALS 0 17
	07 0 00030	LLS 0 30
03610	16 0 04111	LDQ 0 MASKG
	50 1 00012	ENI 1 12
03611	66 1 04131	MEQ 1 IOATABLE
	75 0 03007	SLJ 0 PANIC
03612	12 1 04131	LDA 1 IOATABLE
	61 0 03623	SAL 0 /+11
03613	01 0 76567	ARS 0 76567
	60 0 03614	SAU 0 /+1
03614	75 4 76567	SLJ 4 76567
	00 0 00000	00 0 0
03615	22 2 03616	AJP 2 /+1
	21 4 00000	STQ 4 0
03616	41 0 04143	SCL 0 SYMMASKX
	75 0 01452	SLJ 0 OUTRAN
03617	16 0 04144	LDQ 0 ERRMASK
	44 0 04130	LDL 0 ERRSNS
03620	22 0 03624	AJP 0 /+4
	56 4 03623	SIU 4 /+3
03621	50 4 04150	ENI 4 MTABLE-3
	75 4 03442	SLJ 4 PSTRING
03622	10 0 00155	ENA 0 155
	75 4 01452	SLJ 4 OUTRAN
03623	50 4 76567	ENI 4 76567
	75 4 76567	SLJ 4 76567
03624	36 0 04146	SSK 0 FORMFLAG
	75 0 03627	SLJ 0 /+3

03625	73 0 04145		RSO 0 FORMCNT
	22 0 03630		AJP 0 /+3
03626	10 0 00115		ENA 0 115
	75 4 01452		SLJ 4 OUTRAN
03627	55 2 03603		IJP 2 IORETURN
	75 0 03567		SLJ 0 TADFIO
03630	10 0 00155		ENA 0 155
	75 4 01452		SLJ 4 OUTRAN
03631	12 0 04127		LDA 0 FWTEMP
	22 0 03577		AJP 0 IORETURN-4
03632	07 0 00003		LLS 0 3
	21 0 04127		STQ 0 FWTEMP
03633	21 0 04145		STQ 0 FORMCNT
	75 0 03627		SLJ 0 /-4
03634	75 0 76567	IPSTRING	SLJ 0 76567
	12 0 04123		LDA 0 FORMWORD
03635	41 0 04124		SCL 0 ONE1
	22 1 03637		AJP 1 /+2
03636	75 4 03442		SLJ 4 PSTRING
	00 0 00000		00 0 0
03637	10 0 00361		ENA 0 361
	75 0 03634		SLJ 0 IPSTRING
03640	75 0 76567	INROUT	SLJ 0 76567
	60 0 03656		SAU 0 SYMCOUNT+1
03641	01 0 00030		ARS 0 30
	61 0 03665		SAL 0 SEARCHSY+2
03642	10 0 03640	DELCHAR	ENA 0 INROUT
	61 0 03742		SAL 0 SEPCHAR+5
03643	10 0 00001		ENA 0 1

	20 0 04147		STA 0 CHARWORD
03644	10 0 03655		ENA 0 SYMCOUNT
	61 0 03663		SAL 0 SEARCHSY
03645	10 0 04153		ENA 0 MTABLE
	61 0 04016		SAL 0 CHWDL0
03646	10 0 77776		ENA 0 -1
	20 0 04177		STA 0 EXPCTSNS
03647	20 0 04206		STA 0 INTDPCK
	10 0 04000		ENA 0 4000
03650	20 0 04200		STA 0 COMSNS
	12 0 04210		LDA 0 MANTMAX
03651	50 0 00000		ENI 0 0
	20 0 04211		STA 0 SHIFTSNS
03652	10 0 00000		ENA 0 0
	20 0 04202		STA 0 INWORD
03653	20 0 04204		STA 0 WORDSGN
	50 0 00000		ENI 0 0
03654	50 1 00000		ENI 1 0
	57 1 03671		SIL 1 DIGCHAR
03655	10 0 00000	SYMCOUNT	ENA 0 0
	04 0 00000		ENQ 0 0
03656	50 3 76567		ENI 3 76567
	75 4 01370		SLJ 4 INTRAN
03657	03 0 00010		LRS 0 10
	12 0 04147		LDA 0 CHARWORD
03660	07 0 00010		LLS 0 10
	23 1 04016		QJP 1 CHWDL0
03661	20 0 04147		STA 0 CHARWORD
	04 0 00377		ENQ 0 377

03662	44 0 04147		LDL 0 CHARWORD
	50 0 00000		ENI 0 0
03663	66 7 03665	SEARCHSY	MEQ 7 /+2
	75 0 76567		SLJ 0 76567
03664	10 0 03720		ENA 0 ILLCHAR
	61 0 03663		SAL 0 /-1
03665	04 0 00000		ENQ 0 0
	12 3 76567		LDA 3 76567
03666	03 0 00030		LRS 0 30
	60 0 03670		SAU 0 /+2
03667	07 0 00024		LLS 0 24
	12 0 04202		LDA 0 INWORD
03670	75 0 76567		SLJ 0 76567
	00 0 00000		00 0 0
03671	07 0 00004	DIGCHAR	LLS 0 4
	51 1 76567		INI 1 76567
03672	65 0 04211		THS 0 SHIFTSNS
	75 0 03676		SLJ 0 /+4
03673	20 0 04202		STA 0 INWORD
	04 0 04000		ENQ 0 4000
03674	44 0 04200		LDL 0 COMSNS
	22 0 03655		AJP 0 SYMCOUNT
03675	10 0 02000		ENA 0 2000
	71 0 04200		RSB 0 COMSNS
03676	75 0 03655		SLJ 0 SYMCOUNT
	00 0 00000		00 0 0
03677	16 0 04211		LDQ 0 SHIFTSNS
	47 0 04202		STL 0 INWORD
03700	10 0 00002		ENA 0 2

	40 0 04200	SST 0 COMSNS
03701	20 0 04200	STA 0 COMSNS
	75 0 03655	SLJ 0 SYMCOUNT
03702	07 0 00003	SIGNCHAR LLS 0 3
	10 0 00000	ENA 0 0
03703	23 3 03704	QJP 3 /+1
	10 0 77776	ENA 0 -1
03704	20 0 04204	STA 0 WORDSGN
	04 0 00200	ENQ 0 200
03705	44 0 04200	LDL 0 COMSNS
	22 1 03707	AJP 1 /+2
03706	10 0 00100	ENA 0 100
	70 0 04200	RAD 0 COMSNS
03707	04 0 04000	ENQ 0 4000
	44 0 04200	LDL 0 COMSNS
03710	22 1 03655	AJP 1 SYMCOUNT
	10 0 01000	ENA 0 1000
03711	40 0 04200	SST 0 COMSNS
	20 0 04200	STA 0 COMSNS
03712	75 0 03655	SLJ 0 SYMCOUNT
	00 0 00000	00 0 0
03713	50 1 00000	DECPTCHR ENI 1 0
	10 0 77776	ENA 0 -1
03714	61 0 03671	SAL 0 DIGCHAR
	04 0 00040	ENQ 0 40
03715	44 0 04200	LDL 0 COMSNS
	22 1 03655	AJP 1 SYMCOUNT
03716	10 0 00020	ENA 0 20
	70 0 04200	RAD 0 COMSNS

03717	20 0 04206		STA 0 INTDPCK
	75 0 03655		SLJ 0 SYMCOUNT
03720	10 0 00010	ILLCHAR	ENA 0 10
	40 0 04200		SST 0 COMSNS
03721	20 0 04200		STA 0 COMSNS
	75 0 03655		SLJ 0 SYMCOUNT
03722	04 0 02360	SPACECHR	ENQ 0 2360
	44 0 04200		LDL 0 COMSNS
03723	22 1 03655		AJP 1 SYMCOUNT
	10 0 03655		ENA 0 SYMCOUNT
03724	61 0 03663		SAL 0 SEARCHSY
	75 0 03655		SLJ 0 SYMCOUNT
03725	07 0 00003	BOOLCHAR	LLS 0 3
	10 0 00000		ENA 0 0
03726	23 3 03727		QJP 3 /+1
	12 0 04212		LDA 0 FPONE
03727	20 0 04202		STA 0 INWORD
	04 0 04000		ENQ 0 4000
03730	44 0 04200		LDL 0 COMSNS
	22 0 03733		AJP 0 /+3
03731	10 0 02000		ENA 0 2000
	71 0 04200		RSB 0 COMSNS
03732	75 0 03655		SLJ 0 SYMCOUNT
	00 0 00000		00 0 0
03733	12 0 04213		LDA 0 BLSTERR
	40 0 04200		SST 0 COMSNS
03734	20 0 04200		STA 0 COMSNS
	75 0 03655		SLJ 0 SYMCOUNT
03735	53 3 04016	SEPCHAR	LIL 3 CHWDL0

	50 0 00000		ENI 0 0
03736	04 0 00000		ENQ 0 0
	10 0 00377		ENA 0 377
03737	03 0 00010		LRS 0 10
	12 0 04147		LDA 0 CHARWORD
03740	07 0 00010		LLS 0 10
	23 0 03740		QJP 0 /
03741	20 3 00000		STA 3 0
	75 4 03744		SLJ 4 COMSEPEX
03742	21 0 04130		STQ 0 ERRSNS
	04 1 00000		ENQ 1 0
03743	75 0 76567		SLJ 0 76567
	00 0 00000		00 0 0
03744	75 0 76567	COMSEPEX	SLJ 0 76567
	04 0 04214		ENQ 0 CERRMASK
03745	44 0 04200		LDL 0 COMSNS
	01 0 00001		ARS 0 1
03746	20 0 04200		STA 0 COMSNS
	12 0 04204		LDA 0 WORDSGN
03747	22 2 03752		AJP 2 /+3
	12 0 04202		LDA 0 INWORD
03750	22 1 03752		AJP 1 /+2
	10 0 10000		ENA 0 10000
03751	40 0 04200		SST 0 COMSNS
	20 0 04200		STA 0 COMSNS
03752	12 0 04202		LDA 0 INWORD
	75 4 04070		SLJ 4 BCDCNVRT
03753	04 0 04200		ENQ 0 COMSNS
	75 0 03744		SLJ 0 COMSEPEX

03754	72 0 04177	EXPCHAR	RAO	0	EXPCTSNS
	22 1 03766		AJP	1	/+12
03755	56 1 03770		SIU	1	SEPREXP
	75 4 03744		SLJ	4	COMSEPEX
03756	21 0 04201		STQ	0	COMSNSX
	20 0 04203		STA	0	INWORDX
03757	22 1 03763		AJP	1	/+4
	04 0 02000		ENQ	0	2000
03760	44 0 04201		LDL	0	COMSNSX
	22 1 03762		AJP	1	/+2
03761	12 0 04215		LDA	0	ZEROT0EX
	70 0 04201		RAD	0	COMSNSX
03762	10 0 00001		ENA	0	1
	20 0 04203		STA	0	INWORDX
03763	10 0 03770		ENA	0	SEPREXP
	61 0 03742		SAL	0	SEPCHAR+5
03764	12 0 04204		LDA	0	WORDSGN
	20 0 04205		STA	0	WORDSGNX
03765	12 0 04206		LDA	0	INTDPCK
	20 0 04207		STA	0	INTDPCKX
03766	10 0 04020		ENA	0	4020
	20 0 04200		STA	0	COMSNS
03767	10 0 07777		ENA	0	7777
	75 0 03651		SLJ	0	SYMCOUNT-4
03770	50 1 76567	SEPREXP	ENI	1	76567
	50 0 00000		ENI	0	0
03771	16 0 04204		LDQ	0	WORDSGN
	23 2 03773		QJP	2	/+2
03772	20 0 04202		STA	0	INWORD

	13 0 04202	LAC 0 INWORD
03773	11 1 00000	INA 1 0
	20 0 04202	STA 0 INWORD
03774	12 0 04203	LDA 0 INWORDX
	50 3 77776	ENI 3 -1
03775	03 0 00004	LRS 0 4
	51 3 00001	INI 3 1
03776	22 1 03775	AJP 1 /-1
	53 1 04202	LIL 1 INWORD
03777	12 0 04202	LDA 0 INWORD
	11 3 00000	INA 3 0
04000	22 3 04003	AJP 3 /+3
	11 0 77314	INA 0 77314
04001	22 3 04007	AJP 3 /+6
	50 1 00463	ENI 1 463
04002	10 0 00001	ENA 0 1
	75 0 04005	SLJ 0 /+3
04003	11 0 00463	INA 0 463
	22 2 04007	AJP 2 /+4
04004	50 1 77314	ENI 1 77314
	10 0 00001	ENA 0 1
04005	20 0 04203	STA 0 INWORDX
	12 0 04213	LDA 0 BLSTERR
04006	40 0 04201	SST 0 COMSNSX
	20 0 04201	STA 0 COMSNSX
04007	12 0 04200	LDA 0 COMSNS
	05 0 00001	ALS 0 1
04010	14 0 04201	ADD 0 COMSNSX
	16 0 04177	LDQ 0 EXPCTSNS

04011	23 0 04012		QJP 0 /+1
	40 0 04216		SST 0 TMESBIT
04012	20 0 04130		STA 0 ERRSNS
	12 0 04205		LDA 0 WORDSGNX
04013	20 0 04204		STA 0 WORDSGN
	12 0 04207		LDA 0 INTDPCKX
04014	20 0 04206		STA 0 INTDPCK
	12 0 04203		LDA 0 INWORDX
04015	04 1 00000		ENQ 1 0
	75 0 03640		SLJ 0 INROUT
04016	20 0 03513	CHWDL0	STA 0 VARIABLE
	20 0 76567		STA 0 76567
04017	72 0 04016		RA0 0 /-1
	15 0 04217		SUB 0 MAXTABLE
04020	22 3 04021		AJP 3 /+1
	73 0 04016		RS0 0 /-2
04021	10 0 00001		ENA 0 1
	20 0 04147		STA 0 CHARWORD
04022	04 0 00377		ENQ 0 377
	44 0 03513		LDL 0 VARIABLE
04023	75 0 03663		SLJ 0 SEARCHSY
	00 0 00000		00 0 0
04024	75 0 76567	IBOOLVAR	SLJ 0 76567
	12 0 04220		LDA 0 LONBOOL
04025	75 4 03640		SLJ 4 INROUT
	00 0 00000		00 0 0
04026	16 0 04202		LDQ 0 INWORD
	10 0 40361		ENA 0 40361
04027	75 0 04024		SLJ 0 /-3

	00 0 00000		00 0 0
04030	75 0 76567	IINTEGER	SLJ 0 76567
	12 0 04221		LDA 0 LONNUMBR
04031	75 4 03640		SLJ 4 INROUT
	00 0 00000		00 0 0
04032	20 0 03513		STA 0 VARIABLE
	21 0 03545		STQ 0 EXPVAR
04033	23 2 04043		QJP 2 /+10
	13 0 03545		LAC 0 EXPVAR
04034	20 0 03545		STA 0 EXPVAR
	53 1 03545		LIL 1 EXPVAR
04035	04 0 00000		ENQ 0 0
	12 0 03513		LDA 0 VARIABLE
04036	25 0 03516		DVI 0 TENE1
	23 1 04040		QJP 1 /+2
04037	55 1 04036		IJP 1 /-1
	50 0 00000		ENI 0 0
04040	21 0 04202		STQ 0 INWORD
	24 0 03516		MUI 0 TENE1
04041	14 0 04202		ADD 0 INWORD
	20 0 03513		STA 0 VARIABLE
04042	10 0 00000		ENA 0 0
	20 0 03545		STA 0 EXPVAR
04043	12 0 04222		LDA 0 NEFIBIT
	70 0 04130		RAD 0 ERRSNS
04044	04 0 00060		ENQ 0 60
	44 0 04206		LDL 0 INTDPCK
04045	22 3 04047		AJP 3 /+2
	12 0 04130		LDA 0 ERRSNS

04046	40 0 04222	SST 0 NEFIBIT
	20 0 04130	STA 0 ERRSNS
04047	12 0 03513	LDA 0 VARIABLE
	16 0 03545	LDQ 0 EXPVAR
04050	75 4 04112	SLJ 4 CNVRTFP
	00 0 00000	00 0 0
04051	16 0 04204	LDQ 0 WORDSGN
	20 0 03513	STA 0 VARIABLE
04052	23 0 04054	QJP 0 /+2
	10 0 00000	ENA 0 0
04053	31 0 03513	FSB 0 VARIABLE
	20 0 03513	STA 0 VARIABLE
04054	16 0 03513	LDQ 0 VARIABLE
	10 0 40361	ENA 0 40361
04055	75 0 04030	SLJ 0 IINTEGER
	00 0 00000	00 0 0
04056	75 0 76567	IREALVAR SLJ 0 76567
	12 0 04221	LDA 0 LONNUMBR
04057	75 4 03640	SLJ 4 INROUT
	00 0 00000	00 0 0
04060	75 4 04112	SLJ 4 CNVRTFP
	00 0 00000	00 0 0
04061	20 0 03513	STA 0 VARIABLE
	16 0 04204	LDQ 0 WORDSGN
04062	23 2 04064	QJP 2 /+2
	10 0 00000	ENA 0 0
04063	31 0 03513	FSB 0 VARIABLE
	20 0 03513	STA 0 VARIABLE
04064	16 0 03513	LDQ 0 VARIABLE

	10 0 40361		ENA 0 40361
04065	75 0 04056		SLJ 0 IREALVAR
	00 0 00000		00 0 0
04066	51 2 00001	REDOLI	INI 2 1
	75 0 03603		SLJ 0 IORETURN
04067	50 2 00000	REDOIS	ENI 2 0
	75 0 03575		SLJ 0 IORETURN-6
04070	75 0 76567	BCDCNVRT	SLJ 0 76567
	50 0 00000		ENI 0 0
04071	20 0 04100		STA 0 TEMPX
	41 0 04101		SCL 0 MASKA
04072	26 0 04102		MUF 0 FACTA
	70 0 04100		RAD 0 TEMPX
04073	41 0 04103		SCL 0 MASKB
	26 0 04104		MUF 0 FACTB
04074	70 0 04100		RAD 0 TEMPX
	41 0 04105		SCL 0 MASKC
04075	26 0 04106		MUF 0 FACTC
	70 0 04100		RAD 0 TEMPX
04076	41 0 04107		SCL 0 MASKD
	26 0 04110		MUF 0 FACTD
04077	14 0 04100		ADD 0 TEMPX
	75 0 04070		SLJ 0 BCDCNVRT
04100	00 0 00000	TEMPX	OCT 0
	00 0 00000		
04101	77 6 07417	MASKA	OCT 7760741703607417
	03 6 07417		
04102	63 7 77777	FACTA	DEC -6B43
	77 7 77777		

04103	74 1 77400	MASKB	OCT	7417740077600377
	77 6 00377			
04104	54 3 77777	FACTB	DEC	-156B39
	77 7 77777			
04105	77 7 77400	MASKC	OCT	7777740000177777
	00 1 77777			
04106	44 7 60777	FACTC	DEC	-55356B31
	77 7 77777			
04107	00 0 00377	MASKD	OCT	37777777777
	77 7 77777			
04110	47 3 46544	FACTD	DEC	-3294967296B15
	77 7 77777			
04111	77 7 00000	MASKG	OCT	7770000077700000
	77 7 00000			
04112	75 0 76567	CNVRTFP	SLJ 0	76567
	34 3 00061		SCA 3	61
04113	01 0 00013		ARS 0	13
	55 3 04115		IJP 3	/+2
04114	10 0 00000		ENA 0	0
	75 0 04112		SLJ 0	CNVRTFP
04115	20 0 03513		STA 0	VARIABLE
	07 0 00060		LLS 0	60
04116	11 3 00000		INA 3	0
	05 0 00044		ALS 0	44
04117	41 0 03546		SCL 0	SGNBIT
	42 0 04122		SCM 0	ONE46
04120	14 0 03513		ADD 0	VARIABLE
	04 0 00000		ENQ 0	0
04121	75 0 04112		SLJ 0	CNVRTFP

	00 0 00000		00 0 0	
04122	20 0 00000	ONE46	OCT	200000000000000000
	00 0 00000			
04123	00 0 00000	FORMWORD	OCT	0
	00 0 00000			
04124	00 0 00000	ONE1	OCT	2
	00 0 00002			
04125	00 0 00000	INPUTFW	OCT	0
	00 0 00000			
04126	00 0 00000	FWPERM	OCT	0
	00 0 00000			
04127	00 0 00000	FWTEMP	OCT	0
	00 0 00000			
04130	00 0 00000	ERRSNS	OCT	0
	00 0 00000			
04131	00 0 04030	IOATABLE	00 0	IINTEGER
	00 1 03451		00 1	PINTEGER
04132	00 0 04024		00 0	IBOOLVAR
	00 2 03444		00 2	PBOOLVAR
04133	00 0 04056		00 0	IREALVAR
	00 4 03521		00 4	PREALVAR
04134	00 0 03007		00 0	PANIC
	00 0 03451		00 0	PINTEGER
04135	00 2 03634		00 2	IPSTRING
	00 0 03442		00 0	PSTRING
04136	77 7 77777		OCT	-1
	77 7 77776			
04137	77 7 77777		OCT	-1
	77 7 77776			

04140	77 7 77777		OCT	-1
	77 7 77776			
04141	77 7 77777		OCT	-1
	77 7 77776			
04142	77 7 77777		OCT	-1
	77 7 77776			
04143	77 7 77777	SYMMASKX	OCT	7777777777777400
	77 7 77400			
04144	00 0 00000	ERRMASK	OCT	1777777
	01 7 77777			
04145	00 0 00000	FORMCNT	OCT	0
	00 0 00000			
04146	00 0 00000	FORMFLAG	OCT	0
	00 0 00000			
04147	00 0 00000	CHARWORD	OCT	0
	00 0 00000			
04150	33 2 11027		OCT	3321102706217035
	06 2 17035			
04151	33 4 67016		OCT	3346701606615430
	06 6 15430			
04152	06 6 66555		OCT	0666655574370761
	74 3 70761			
04153	00 0 00000	MTABLE	BSS	24
	00 0 00000			
04177	00 0 00000	EXPCTSNS	OCT	0
	00 0 00000			
04200	00 0 00000	COMSNS	OCT	0
	00 0 00000			
04201	00 0 00000	COMSNSX	OCT	0

	00 0 00000				
04202	00 0 00000	INWORD	OCT	0	
	00 0 00000				
04203	00 0 00000	INWORDX	OCT	0	
	00 0 00000				
04204	00 0 00000	WORDSGN	OCT	0	
	00 0 00000				
04205	00 0 00000	WORDSGNX	OCT	0	
	00 0 00000				
04206	00 0 00000	INTDPCK	OCT	0	
	00 0 00000				
04207	00 0 00000	INTDPCKX	OCT	0	
	00 0 00000				
04210	03 7 77777	MANTMAX	OCT	377777777777777	
	77 7 77777				
04211	00 0 00000	SHIFTSNS	OCT	0	
	00 0 00000				
04212	20 0 14000	FPONE	OCT	2001400000000000	
	00 0 00000				
04213	00 0 00000	BLSTERR	OCT	400000	
	00 4 00000				
04214	00 0 00000	CERRMASK	OCT	425252	
	00 4 25252				
04215	00 0 00000	ZEROTOEX	OCT	100000	
	00 1 00000				
04216	00 0 00000	TMESBIT	OCT	40000	
	00 0 40000				
04217	20 0 03513	MAXTABLE	STA	0 VARIABLE	
	20 0 04177		STA	0 EXPCTSNS	

04220	00 0 00011	LONBOOL	00 0 11
	00 0 04242		00 0 LOBOOL
04221	00 0 00025	LONNUMBR	00 0 25
	00 0 04224		00 0 CHRTABLE
04222	00 0 00000	NEFIBIT	OCT 1000000
	01 0 00000		
04223	00 0 00030	INPINF	00 0 30
	00 0 03012		00 0 EXIT+1
04224	00 0 03671	CHRTABLE	00 0 DIGCHAR
	00 0 00000		00 0 0
04225	00 0 03671		00 0 DIGCHAR
	00 0 00001		00 0 1
04226	00 0 03671		00 0 DIGCHAR
	00 0 00002		00 0 2
04227	00 0 03671		00 0 DIGCHAR
	00 0 00003		00 0 3
04230	00 0 03671		00 0 DIGCHAR
	00 0 00004		00 0 4
04231	00 0 03671		00 0 DIGCHAR
	00 0 00005		00 0 5
04232	00 0 03671		00 0 DIGCHAR
	00 0 00006		00 0 6
04233	00 0 03671		00 0 DIGCHAR
	00 0 00007		00 0 7
04234	00 0 03671		00 0 DIGCHAR
	00 0 00010		00 0 10
04235	00 0 03671		00 0 DIGCHAR
	00 0 00011		00 0 11
04236	00 0 03713		00 0 DECPTCHR

	00 0 00044		00 0 44
04237	00 0 03754		00 0 EXPCHAR
	00 0 00045		00 0 45
04240	00 0 03702		00 0 SIGNCHAR
	00 0 00051		00 0 51
04241	00 0 03702		00 0 SIGNCHAR
	00 0 00052		00 0 52
04242	00 0 03735	LOB00L	00 0 SEPCHAR
	00 0 00056		00 0 56
04243	00 0 03735		00 0 SEPCHAR
	00 0 00057		00 0 57
04244	00 0 03735		00 0 SEPCHAR
	00 0 00060		00 0 60
04245	00 0 03642		00 0 DELCHAR
	00 0 00155		00 0 155
04246	00 0 03722		00 0 SPACECHR
	00 0 00156		00 0 156
04247	00 0 04066		00 0 REDOLI
	00 0 00106		00 0 106
04250	00 0 04067		00 0 REDOIS
	00 0 00077		00 0 77
04251	00 0 03725		00 0 BOOLCHAR
	00 0 00132		00 0 132
04252	00 0 03725		00 0 BOOLCHAR
	00 0 00133		00 0 133

OUTRAN EQV 1452

INTRAN EQV 1370

END

SKIP LO	TPX	0 5
SKIP LO	CRTN	0 1
SKIP LO	PAPERI	0 9
SKIP LO	DOWT	0 3
SKIP LO	WTCK	0 3
SKIP LO	WER	0 1
SKIP LO	WEOF	0 3
M SYMBOL	PARAM	0 2
M SYMBOL	STARTSUB	0 9
M SYMBOL	STARTSUB	0 0
M SYMBOL	STARTSUB	0 2
M SYMBOL	MACFORPM	0 8
M SYMBOL	MACFORPM	0 3
M SYMBOL	B220	0 0
M SYMBOL	B220	0 1
M SYMBOL	B220	0 3
M SYMBOL	RETURN	0 0
M SYMBOL	DEBUGAID	0 0
M SYMBOL	DEBUGAID	0 8
M SYMBOL	ROUST	0 7
M SYMBOL	ROUST	0 9
M SYMBOL	ROUST	0 2
M SYMBOL	ROUST	0 6
M SYMBOL	COMP	0 3
TWOPASS/	COMP	0 3
M SYMBOL	CANGOQ	0 8
M SYMBOL	CANGOQ	0 0
M SYMBOL	CANGOQ	0 3

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M SYMBOL	CANGOQ	0 5
M SYMBOL	CANGOQ	0 7
M SYMBOL	CANGOQ	0 9
M SYMBOL	SWCF	0 1
M SYMBOL	SWTI	0 0
M SYMBOL	LINK	0 5
M SYMBOL	LINK	0 9
M SYMBOL	LINK	0 0
M SYMBOL	EQTST	0 4
M SYMBOL	EQTST	0 2
M SYMBOL	EQTST	0 4
M SYMBOL	EQTST	0 1
M SYMBOL	COMPATST	0 1
M SYMBOL	COMPATST	0 3
TWOPASS/	COMPATST	0 3
M SYMBOL	COMPATST	0 5
M SYMBOL	ROUSTX	0 1
M SYMBOL	ROUSTX	0 2
M SYMBOL	ROUSTX	0 3
M SYMBOL	ROUSTX	0 4
M SYMBOL	ROUSTX	0 5
M SYMBOL	SWTST	0 0
M SYMBOL	CHASE	0 1
M SYMBOL	CHASE	0 3
M SYMBOL	CHASE	0 5
M SYMBOL	SNAKE	0 0
M SYMBOL	SNAKE	0 2
M SYMBOL	ERRX	0 4
M SYMBOL	BOTHXIT	0 1

M SYMBOL	GFNDX	0 0
M SYMBOL	LIMITEST	0 7
M SYMBOL	NEWSYN	0 3
TWOPASS/	NEWSYN	0 3
DUP= TAG	QUAL	0 0
DUP= TAG	COUNTS	0 0
DUP= TAG	PAR	0 0
DUP= TAG	VKEEP	0 0
DUP= TAG	TE	0 0
DUP= TAG	NKEEP	0 0
DUP= TAG	SBIXKEEP	0 0
DUP= TAG	SUBLKEEP	0 0
DUP= TAG	P	0 0
DUP= TAG	Q	0 0
M SYMBOL	GOGO	0 7
SKIP LO	GOGO	0 3
PAIRING	NOR	0 0

DEFINE

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			ORG	1200
01200	16 5 00001	RESTORE	LDQ	5 1
	21 0 01362		STQ	0 OUTCASE
01201	04 0 00000		ENQ	0 0
	21 0 01363		STQ	0 CASE
01202	52 4 01364		LIU	4 B
	53 5 01364		LIL	5 B
01203	75 0 00000	DEFINE	SLJ	0 0
	20 0 01367		STA	0 TEM
01204	41 0 01370		SCL	0 LF33
	50 0 00000		ENI	0 0
01205	22 0 01206		AJP	0 B540
	61 0 01474		SAL	0 RDX
01206	12 0 01367	B540	LDA	0 TEM
	01 0 00030		ARS	0 30
01207	41 0 01370		SCL	0 LF33
	50 0 00000		ENI	0 0
01210	22 0 01211		AJP	0 B541
	61 0 01547		SAL	0 PRTN
01211	23 0 01203	B541	QJP	0 DEFINE
	21 0 01371		STQ	0 TABLO
01212	56 4 01364		SIU	4 B
	57 5 01364		SIL	5 B
01213	53 5 01371		LIL	5 TABLO
	10 5 00007		ENA	5 7
01214	60 0 01503		SAU	0 DELT
	23 2 01200		QJP	2 RESTORE
01215	10 0 77776		ENA	0 77776

	20 5 00000		STA 5 0
01216	20 5 00001		STA 5 1
	10 0 00000		ENA 0 0
01217	20 5 00002		STA 5 2
	20 0 01363		STA 0 CASE
01220	75 4 01473		SLJ 4 RDN
	00 0 00000		00 0 0
01221	20 5 00004		STA 5 4
	75 4 01473		SLJ 4 RDN
01222	75 4 01473		SLJ 4 RDN
	00 0 00000		00 0 0
01223	20 5 00005		STA 5 5
	75 4 01473		SLJ 4 RDN
01224	12 5 00005		LDA 5 5
	15 5 00004		SUB 5 4
01225	22 0 01230		AJP 0 B401
	12 5 00005		LDA 5 5
01226	20 5 00001		STA 5 1
	12 5 00004		LDA 5 4
01227	20 5 00000		STA 5 0
	50 0 00000		ENI 0 0
01230	50 4 00000	B401	ENI 4 0
	75 4 01473		SLJ 4 RDN
01231	20 0 01372		STA 0 F3
	75 4 01473		SLJ 4 RDN
01232	20 0 01373		STA 0 F4
	10 0 00007		ENA 0 7
01233	61 0 01331	B405	SAL 0 DELINDX
	75 4 01473		SLJ 4 RDN

01234	64 0 01373		EQS 0 F4
	75 0 01332		SLJ 0 B402
01235	12 0 01331		LDA 0 DELINDX
	11 0 77770		INA 0 77770
01236	41 0 01370		SCL 0 LF33
	50 0 00000		ENI 0 0
01237	20 5 00002		STA 5 2
	11 0 00010		INA 0 10
01240	20 5 00003		STA 5 3
	52 4 01371		LIU 4 TABLO
01241	56 4 01245		SIU 4 B404
	11 5 00000		INA 5 0
01242	60 0 01244		SAU 0 B403
	50 4 00000		ENI 4 0
01243	50 0 00000		ENI 0 0
	12 0 01375		LDA 0 SGNB
01244	20 4 00000	B403	STA 4 0
	11 0 00001		INA 0 1
01245	54 4 00000	B404	ISK 4 0
	75 0 01244		SLJ 0 B403
01246	52 4 01371		LIU 4 TABLO
	12 5 00003		LDA 5 3
01247	11 4 00000		INA 4 0
	61 0 01402		SAL 0 K
01250	12 0 01376		LDA 0 ININSY
	20 0 01377		STA 0 INSY
01251	75 4 01473	ESS	SLJ 4 RDN
	00 0 00000		00 0 0
01252	64 0 01373		EQS 0 F4

	75 0 01262		SLJ 0 B406
01253	75 4 01473		SLJ 4 RDN
	00 0 00000		00 0 0
01254	64 0 01372		EQS 0 F3
	75 0 01334		SLJ 0 B407
01255	75 4 01473		SLJ 4 RDN
	00 0 00000		00 0 0
01256	64 0 01372		EQS 0 F3
	75 0 01337		SLJ 0 B408
01257	72 0 01377		RAO 0 INSY
	75 4 01473		SLJ 4 RDN
01260	20 0 01400		STA 0 BUGCHR
	12 0 01372		LDA 0 F3
01261	50 4 01341	B409	ENI 4 BUG1
	57 4 01473		SIL 4 RDN
01262	14 5 00003	B406	ADD 5 3
	61 0 01401		SAL 0 J
01263	12 7 01401		LDA 7 J
	01 0 00021		ARS 0 21
01264	41 0 01370		SCL 0 LF33
	22 0 01311		AJP 0 PREDEE
01265	61 0 01401		SAL 0 J
	16 0 01403		LDQ 0 CHRMSK
01266	75 4 01473	QUE	SLJ 4 RDN
	00 0 00000		00 0 0
01267	20 0 01404		STA 0 CHAR
	50 0 00000		ENI 0 0
01270	64 0 01372		EQS 0 F3
	75 0 01272		SLJ 0 B411

01271	44 0 01377		LDL 0 INSY
	20 0 01404		STA 0 CHAR
01272	46 7 01401	B411	SBL 7 J
	22 0 01302		AJP 0 B412
01273	44 7 01401		LDL 7 J
	46 0 01376		SBL 0 ININSY
01274	22 1 01276		AJP 1 B413
	44 0 01404		LDL 0 CHAR
01275	50 0 00000		ENI 0 0
	22 3 01345		AJP 3 OUT
01276	12 7 01401	B413	LDA 7 J
	01 0 00021		ARS 0 21
01277	41 0 01370		SCL 0 LF33
	22 0 01314		AJP 0 DEE
01300	61 0 01401		SAL 0 J
	12 0 01404		LDA 0 CHAR
01301	75 0 01272		SLJ 0 B411
	00 0 00000		00 0 0
01302	12 0 01404	B412	LDA 0 CHAR
	22 3 01304		AJP 3 OUTCHRT
01303	72 0 01401		RAO 0 J
	75 0 01266		SLJ 0 QUE
01304	12 7 01401	OUTCHRT	LDA 7 J
	16 7 01401		LDQ 7 J
01305	14 5 00003		ADD 5 3
	61 0 01401		SAL 0 J
01306	12 7 01401		LDA 7 J
	41 0 01405		SCL 0 BMSK
01307	45 0 01405		ADL 0 BMSK

	20 7 01401		STA 7 J
01310	75 0 01251		SLJ 0 ESS
	00 0 00000		00 0 0
01311	16 0 01402	PREDEE	LDQ 0 K
	06 0 00021		QLS 0 21
01312	12 7 01401		LDA 7 J
	45 0 01406		ADL 0 FMSK
01313	20 7 01401		STA 7 J
	75 0 01325		SLJ 0 B904
01314	16 0 01402	DEE	LDQ 0 K
	06 0 00021		QLS 0 21
01315	12 7 01401		LDA 7 J
	45 0 01406		ADL 0 FMSK
01316	20 7 01401		STA 7 J
	12 0 01404		LDA 0 CHAR
01317	16 7 01401		LDQ 7 J
	75 0 01321		SLJ 0 B902
01320	16 0 01401	B901	LDQ 0 J
	06 0 00040		QLS 0 40
01321	45 0 01405	B902	ADL 0 BMSK
	20 7 01402		STA 7 K
01322	12 0 01402		LDA 0 K
	20 0 01401		STA 0 J
01323	72 0 01402		RAO 0 K
	12 0 01404		LDA 0 CHAR
01324	22 3 01304		AJP 3 OUTCHRT
	50 0 00000		ENI 0 0
01325	75 4 01473	B904	SLJ 4 RDN
	00 0 00000		00 0 0

01326	64 0 01372		EQS 0 F3
	75 0 01330		SLJ 0 B903
01327	16 0 01403		LDQ 0 CHRMSK
	44 0 01377		LDL 0 INSY
01330	20 0 01404	B903	STA 0 CHAR
	75 0 01320		SLJ 0 B901
01331	00 0 00000	DELINDX	OCT 500000
	00 5 00000		
01332	20 7 01331	B402	STA 7 DELINDX
	72 0 01331		RAO 0 DELINDX
01333	75 0 01233		SLJ 0 B405
	00 0 00000		00 0 0
01334	03 0 00017	B407	LRS 0 17
	72 0 01377		RAO 0 INSY
01335	10 0 00000		ENA 0 0
	07 0 00017		LLS 0 17
01336	75 0 01252		SLJ 0 ESS+1
	00 0 00000		00 0 0
01337	20 0 01400	B408	STA 0 BUGCHR
	12 0 01373		LDA 0 F4
01340	75 0 01261		SLJ 0 B409
	00 0 00000		00 0 0
01341	10 0 01343	BUG1	ENA 0 BUG2
	61 0 01473		SAL 0 RDN
01342	12 0 01372		LDA 0 F3
	75 0 01473		SLJ 0 RDN
01343	10 0 01474	BUG2	ENA 0 RDX
	61 0 01473		SAL 0 RDN
01344	12 0 01400		LDA 0 BUGCHR

	75 0 01473		SLJ 0 RDN
01345	44 0 01377	OUT	LDL 0 INSY
	16 7 01401		LDQ 7 J
01346	45 0 01405		ADL 0 BMSK
	45 0 01406		ADL 0 FMSK
01347	20 7 01401		STA 7 J
	41 0 01370		SCL 0 LF33
01350	20 5 00004		STA 5 4
	11 0 00001		INA 0 1
01351	20 5 00005		STA 5 5
	12 0 01377		LDA 0 INSY
01352	14 5 00003		ADD 5 3
	61 0 01401		SAL 0 J
01353	12 7 01401		LDA 7 J
	45 0 01405		ADL 0 BMSK
01354	20 7 01401		STA 7 J
	10 0 77776		ENA 0 -1
01355	60 0 01474		SAU 0 RDX
	75 4 01473		SLJ 4 RDN
01356	10 0 00000		ENA 0 0
	60 0 01474		SAU 0 RDX
01357	50 0 00000		ENI 0 0
	10 7 01402		ENA 7 K
01360	41 0 01370		SCL 0 LF33
	75 0 01200		SLJ 0 RESTORE
01361	00 0 00000	INCASE	OCT 100
	00 0 00100		
01362	00 0 00000	OUTCASE	OCT 0
	00 0 00000		

01363	00 0 00000	CASE	OCT	0
	00 0 00000			
01364	00 0 00000	B	OCT	0
	00 0 00000			
01365	00 0 00000	Q	OCT	0
	00 0 00000			
01366	00 0 00000	BX	OCT	0
	00 0 00000			
01367	00 0 00000	TEM	OCT	0
	00 0 00000			
01370	77 7 77777	LF33	OCT	777777777700000
	77 7 00000			
01371	00 0 00000	TABLO	OCT	0
	00 0 00000			
01372	00 0 00000	F3	OCT	0
	00 0 00000			
01373	00 0 00000	F4	OCT	0
	00 0 00000			
01374	00 0 00000	RT17	OCT	377777
	00 3 77777			
01375	40 0 00000	SGNB	OCT	40000000000000000
	00 0 00000			
01376	47 7 77777	ININSY	OCT	4777777777777777
	77 7 77777			
01377	00 0 00000	INSY	OCT	0
	00 0 00000			
01400	00 0 00000	BUGCHR	OCT	0
	00 0 00000			
01401	00 0 00000	J	OCT	500000

	00 5 00000				
01402	00 0 00000	K	OCT	500000	
	00 5 00000				
01403	40 0 00000	CHRMSK	OCT	4000000000377777	
	00 3 77777				
01404	00 0 00000	CHAR	OCT	0	
	00 0 00000				
01405	37 7 77400	BMSK	OCT	3777740000000000	
	00 0 00000				
01406	00 0 00377	FMSK	OCT	0000037777400000	
	77 4 00000				
01407	00 0 00000	OTCHR	OCT	0	
	00 0 00000				
01410	00 0 00000	P	OCT	0	
	00 0 00000				
01411	75 0 00000	INTRAN	SLJ	0 0	
	21 0 01365		STQ	0 Q	
01412	41 0 01370		SCL	0 LF33	
	50 0 00000		ENI	0 0	
01413	56 4 01364		SIU	4 B	
	57 5 01364		SIL	5 B	
01414	57 6 01366		SIL	6 BX	
	16 0 01374		LDQ	0 RT17	
01415	53 5 01371		LIL	5 TABLO	
	12 5 00005		LDA	5 5	
01416	20 0 01407		STA	0 OTCHR	
	10 0 00001		ENA	0 1	
01417	20 0 01410		STA	0 P	
	50 6 00000		ENI	6 0	

01420	75 4 01446		SLJ 4 RDL
	00 0 00000		00 0 0
01421	14 5 00003		ADD 5 3
	61 0 01401		SAL 0 J
01422	12 7 01401	B100	LDA 7 J
	01 0 00021		ARS 0 21
01423	41 0 01370		SCL 0 LF33
	22 0 01452		AJP 0 OTP
01424	61 0 01401		SAL 0 J
	50 0 00000		ENI 0 0
01425	12 0 01401	B102	LDA 0 J
	60 0 01432		SAU 0 CHRCK
01426	12 7 01401		LDA 7 J
	22 3 01443		AJP 3 SETOTP
01427	01 0 00021		ARS 0 21
	41 0 01370		SCL 0 LF33
01430	22 0 01432		AJP 0 CHRCK
	61 0 01401		SAL 0 J
01431	75 0 01426		SLJ 0 /-3
	00 0 00000		00 0 0
01432	10 0 76567	CHRCK	ENA 0 76567
	61 0 01401		SAL 0 J
01433	12 7 01401		LDA 7 J
	22 3 01440		AJP 3 B906+1
01434	75 4 01446		SLJ 4 RDL
	00 0 00000		00 0 0
01435	46 7 01401		SBL 7 J
	22 1 01437		AJP 1 B906
01436	72 0 01401		RAO 0 J

	75 0 01425		SLJ 0 B102
01437	51 6 77776	B906	INI 6 77776
	12 7 01401		LDA 7 J
01440	01 0 00021		ARS 0 21
	41 0 01370		SCL 0 LF33
01441	22 0 01452		AJP 0 OTP
	61 0 01401		SAL 0 J
01442	75 0 01433		SLJ 0 CHRCK+1
	00 0 00000		00 0 0
01443	61 0 01407	SETOTP	SAL 0 OTCHR
	57 6 01410		SIL 6 P
01444	75 0 01427		SLJ 0 B102+2
	00 0 00000		00 0 0
01445	12 6 02036	B104	LDA 6 CHRT
	51 6 00001		INI 6 1
01446	75 0 00000	RDL	SLJ 0 0
	10 6 77777		ENA 6 77777
01447	22 1 01445		AJP 1 B104
	75 4 01473		SLJ 4 RDN
01450	20 6 02036		STA 6 CHRT
	73 0 01446		RSO 0 RDL
01451	75 0 01445		SLJ 0 B104
	00 0 00000		00 0 0
01452	53 4 01410	OTP	LIL 4 P
	12 0 01446		LDA 0 RDL
01453	50 0 00000		ENI 0 0
	60 0 01455		SAU 0 B105
01454	50 6 00000		ENI 6 0
	50 0 00000		ENI 0 0

01455	10 4 00000	B105	ENA 4 0
	22 0 01462		AJP 0 B106
01456	12 4 02036		LDA 4 CHRT
	20 6 02036		STA 6 CHRT
01457	50 0 00000		ENI 0 0
	20 6 02036		STA 6 CHRT
01460	51 4 00001		INI 4 1
	51 6 00001		INI 6 1
01461	75 0 01455		SLJ 0 B105
	00 0 00000		00 0 0
01462	10 6 00000	B106	ENA 6 0
	42 0 01374		SCM 0 RT17
01463	61 0 01446		SAL 0 RDL
	12 0 01407		LDA 0 OTCHR
01464	15 5 00004		SUB 5 4
	22 1 01470		AJP 1 B107
01465	12 0 01474		LDA 0 RDX
	61 0 01466		SAL 0 /+1
01466	10 0 77776		ENA 0 -1
	75 4 76567		SLJ 4 76567
01467	12 0 01374		LDA 0 RT17
	61 0 01446		SAL 0 RDL
01470	12 0 01407	B107	LDA 0 OTCHR
	52 4 01364		LIU 4 B
01471	53 5 01364		LIL 5 B
	53 6 01366		LIL 6 BX
01472	16 0 01365		LDQ 0 Q
	75 0 01411		SLJ 0 INTRAN
01473	75 0 00000	RDN	SLJ 0 0

	75 0 01474		SLJ 0 RDX
01474	10 0 00000	RDX	ENA 0 0
	75 4 76567		SLJ 4 76567
01475	15 5 00000		SUB 5 0
	22 0 01505		AJP 0 UPRCS
01476	14 5 00000		ADD 5 0
	15 5 00001		SUB 5 1
01477	22 0 01506		AJP 0 LRCS
	14 5 00001		ADD 5 1
01500	20 0 01641		STA 0 TEMX
	12 5 00002		LDA 5 2
01501	20 0 01367		STA 0 TEM
	12 0 01641		LDA 0 TEMX
01502	53 4 01367		LIL 4 TEM
	14 0 01363		ADD 0 CASE
01503	64 4 00000	DELT	EQS 4 0
	75 0 01473		SLJ 0 RDN
01504	75 0 01474		SLJ 0 RDX
	00 0 00000		00 0 0
01505	12 0 01361	UPRCS	LDA 0 INCASE
	50 0 00000		ENI 0 0
01506	20 0 01363	LRCS	STA 0 CASE
	75 0 01474		SLJ 0 RDX
01507	10 0 77776	B210	ENA 0 77776
	50 0 00000		ENI 0 0
01510	53 6 01364	B250	LIL 6 B
	52 5 01364		LIU 5 B
01511	16 0 01365		LDQ 0 Q
	50 0 00000		ENI 0 0

01512	75 0 00000	OUTRAN	SLJ 0 0
	21 0 01365		STQ 0 Q
01513	57 6 01364		SIL 6 B
	56 5 01364		SIU 5 B
01514	53 5 01371		LIL 5 TABLO
	41 0 01370		SCL 0 LF33
01515	15 5 00005		SUB 5 5
	22 2 01510		AJP 2 B250
01516	14 5 00005		ADD 5 5
	20 0 01407		STA 0 OTCHR
01517	14 5 00003		ADD 5 3
	61 0 01401		SAL 0 J
01520	12 7 01401		LDA 7 J
	05 0 00020		ALS 0 20
01521	41 0 01370		SCL 0 LF33
	61 0 01401		SAL 0 J
01522	22 0 01507		AJP 0 B210
	50 6 77776		ENI 6 77776
01523	12 7 01401	B201	LDA 7 J
	51 6 00001		INI 6 1
01524	20 6 02036		STA 6 CHRT
	22 3 01527		AJP 3 B202
01525	05 0 00020		ALS 0 20
	50 0 00000		ENI 0 0
01526	61 0 01401		SAL 0 J
	75 0 01523		SLJ 0 B201
01527	16 0 01374	B202	LDQ 0 RT17
	44 6 02036		LDL 6 CHRT
01530	15 0 01361		SUB 0 INCASE

	22 3 01543		AJP 3 PULRCS
01531	20 6 02036		STA 6 CHRT
	12 0 01362		LDA 0 OUTCASE
01532	50 0 00000		ENI 0 0
	15 5 00000		SUB 5 0
01533	22 0 01535		AJP 0 B203
	12 5 00000		LDA 5 0
01534	20 0 01362		STA 0 OUTCASE
	75 4 01547		SLJ 4 PRTN
01535	44 6 02036	B203	LDL 6 CHRT
	75 4 01547		SLJ 4 PRTN
01536	55 6 01527		IJP 6 B202
	12 0 01407		LDA 0 OTCHR
01537	15 5 00004		SUB 5 4
	22 1 01542		AJP 1 B205
01540	10 0 77776		ENA 0 77776
	75 4 01547		SLJ 4 PRTN
01541	12 5 00001		LDA 5 1
	20 0 01362		STA 0 OUTCASE
01542	12 0 01407	B205	LDA 0 OTCHR
	75 0 01510		SLJ 0 B250
01543	12 0 01362	PULRCS	LDA 0 OUTCASE
	15 5 00001		SUB 5 1
01544	22 0 01535		AJP 0 B203
	12 5 00001		LDA 5 1
01545	20 0 01362		STA 0 OUTCASE
	75 4 01547		SLJ 4 PRTN
01546	75 0 01535		SLJ 0 B203
	00 0 00000		00 0 0

01547	75 0 00000	PRTN	SLJ 0 0
	75 4 00000		SLJ 4 0
01550	75 0 01547		SLJ 0 PRTN
	00 0 00000		00 0 0
01551	75 0 00000	TPWIN	SLJ 0 0
	75 0 01552		SLJ 0 TPX
01552	50 0 00000	TPX	ENI 0 0
	22 3 01565		AJP 3 RSET
01553	74 0 11100		EXF 0 11100
	10 0 01565		ENA 0 INCEL+1
01554	74 7 11101		EXF 7 11101
	74 7 11101		EXF 7 11101
01555	20 0 00001		STA 0 1
	74 1 01564		EXF 1 INCEL
01556	10 0 02001		ENA 0 2001
	75 4 01642		SLJ 4 WAIT
01557	74 7 11101		EXF 7 11101
	75 0 01562		SLJ 0 CRTN
01560	74 7 11140	CSX	EXF 7 11140
	75 0 01570		SLJ 0 NEWCASE
01561	12 0 01564		LDA 0 INCEL
	75 0 01551		SLJ 0 TPWIN
01562	74 1 01565	CRTN	EXF 1 INCEL+1
	74 7 11101		EXF 7 11101
01563	10 0 00045		ENA 0 45
	75 0 01551		SLJ 0 TPWIN
01564	00 0 00000	INCEL	OCT 0
	00 0 00000		
01565	12 0 01567	RSET	LDA 0 LRCSW

	20 0 01560		STA 0 CSX
01566	75 0 01551		SLJ 0 TPWIN
	00 0 00000		00 0 0
01567	74 7 11140	LRCSW	EXF 7 11140
	75 0 01570		SLJ 0 NEWCASE
01570	10 0 01601	NEWCASE	ENA 0 NCHR
	61 0 01551		SAL 0 TPWIN
01571	12 0 01560		LDA 0 CSX
	05 0 00027		ALS 0 27
01572	22 2 01576		AJP 2 LUC
	05 0 00001		ALS 0 1
01573	11 0 77776		INA 0 77776
	05 0 00030		ALS 0 30
01574	20 0 01560		STA 0 CSX
	10 0 00057		ENA 0 57
01575	75 0 01551		SLJ 0 TPWIN
	00 0 00000		00 0 0
01576	05 0 00001	LUC	ALS 0 1
	11 0 00001		INA 0 1
01577	05 0 00030		ALS 0 30
	20 0 01560		STA 0 CSX
01600	10 0 00047		ENA 0 47
	75 0 01551		SLJ 0 TPWIN
01601	22 0 01565	NCHR	AJP 0 RSET
	10 0 01552		ENA 0 TPX
01602	61 0 01551		SAL 0 TPWIN
	12 0 01564		LDA 0 INCEL
01603	75 0 01551		SLJ 0 TPWIN
	00 0 00000		00 0 0

01604	75 0 00000	TPWOT	SLJ	0 0
	22 3 01604		AJP	3 TPWOT
01605	20 0 01621		STA	0 OTCEL
	57 5 01622		SIL	5 BTX
01606	74 7 11140		EXF	7 11140
	10 0 00047		ENA	0 47
01607	74 7 11141		EXF	7 11141
	10 0 00057		ENA	0 57
01610	15 0 01621		SUB	0 OTCEL
	22 0 01604		AJP	0 TPWOT
01611	50 5 00017		ENI	5 17
	12 0 01621		LDA	0 OTCEL
01612	64 5 01623		EQS	5 ILGLCRS
	75 0 01614		SLJ	0 EXCT
01613	53 5 01622	TPOX	LIL	5 BTX
	75 0 01604		SLJ	0 TPWOT
01614	10 0 00002	EXCT	ENA	0 2
	75 4 01642		SLJ	4 WAIT
01615	74 0 21110		EXF	0 21110
	10 0 01622		ENA	0 OTCEL+1
01616	61 0 00002		SAL	0 2
	74 2 01621		EXF	2 OTCEL
01617	10 0 00002		ENA	0 2
	75 4 01642		SLJ	4 WAIT
01620	00 0 00000		00	0 0
	75 0 01613		SLJ	0 TPOX
01621	00 0 00000	OTCEL	OCT	0
	00 0 00000			
01622	00 0 00000	BTX	OCT	0

	00 0 00000			
01623	00 0 00000	ILGLCRS	OCT	51
	00 0 00051			
01624	00 0 00000		OCT	43
	00 0 00043			
01625	00 0 00000		OCT	00
	00 0 00000			
01626	00 0 00000		OCT	77
	00 0 00077			
01627	00 0 00000		OCT	10
	00 0 00010			
01630	00 0 00000		OCT	41
	00 0 00041			
01631	00 0 00000		OCT	53
	00 0 00053			
01632	00 0 00000		OCT	55
	00 0 00055			
01633	00 0 00000		OCT	65
	00 0 00065			
01634	00 0 00000		OCT	67
	00 0 00067			
01635	00 0 00000		OCT	71
	00 0 00071			
01636	00 0 00000		OCT	73
	00 0 00073			
01637	00 0 00000		OCT	75
	00 0 00075			
01640	00 0 00000		OCT	76
	00 0 00076			

01641	00 0 00000	TEMX	OCT	0
	00 0 00000			
01642	75 0 00000	WAIT	SLJ	0 0
	74 0 00100		EXF	0 100
01643	75 0 00713		SLJ	0 713
	00 0 00000		00	0 0
01644	74 0 00101		EXF	0 101
	75 0 01642		SLJ	0 WAIT
01645	75 0 00000	PAPERI	SLJ	0 0
	22 3 01645		AJP	3 /
01646	74 7 11211		EXF	7 11211
	76 0 01646		SLS	0 /
01647	74 0 11200		EXF	0 11200
	10 0 02035		ENA	0 MEMLO+1
01650	61 0 00001		SAL	0 1
	74 1 02034		EXF	1 MEMLO
01651	10 0 00001		ENA	0 1
	74 7 00011		EXF	7 11
01652	12 0 02034		LDA	0 MEMLO
	75 0 01645		SLJ	0 PAPERI
01653	75 0 00000	PAPERCL	SLJ	0 0
	22 3 01662		AJP	3 LEADER
01654	20 0 02035		STA	0 CNTZRO
	10 0 00002		ENA	0 2
01655	75 4 01642		SLJ	4 WAIT
	00 0 00000		00	0 0
01656	12 0 02035		LDA	0 CNTZRO
	20 0 02034		STA	0 MEMLO
01657	74 0 21210		EXF	0 21210

	10 0 02035		ENA 0 MEMLO+1
01660	61 0 00002		SAL 0 2
	74 2 02034		EXF 2 MEMLO
01661	75 0 01653		SLJ 0 PAPEROL
	00 0 00000		00 0 0
01662	10 0 00000	LEADER	ENA 0 0
	20 0 02034		STA 0 MEMLO
01663	10 0 00200		ENA 0 200
	20 0 02035		STA 0 CNTZRO
01664	10 0 00002	LDRLOP	ENA 0 2
	75 4 01642		SLJ 4 WAIT
01665	10 0 02035		ENA 0 MEMLO+1
	61 0 00002		SAL 0 2
01666	74 0 21210		EXF 0 21210
	74 2 02034		EXF 2 MEMLO
01667	73 0 02035		RSO 0 CNTZRO
	22 1 01664		AJP 1 LDRLOP
01670	74 0 21240		EXF 0 21240
	75 0 01653		SLJ 0 PAPEROL
01671	75 0 00000	MEMORYI	SLJ 0 0
	12 7 02034		LDA 7 MEMLO
01672	20 0 02035		STA 0 CNTZRO
	72 0 02034		RAO 0 MEMLO
01673	12 0 02035		LDA 0 CNTZRO
	75 0 01671		SLJ 0 MEMORYI
01674	50 2 00000	NORCHR	ENI 2 0
	03 0 00006		LRS 0 6
01675	75 0 01700		SLJ 0 INSERT
	00 0 00000		00 0 0

MEMORYI	SLJ	0	0
	LDA	7	MEMLO
	STA	0	CNTZRO
	RAO	0	MEMLO
	LDA	0	CNTZRO
	SLJ	0	MEMORYI



01676	20 0 01760	TABSERT	STA 0 TEMRD
	53 2 01760		LIL 2 TEMRD
01677	12 0 01774	CRSRT	LDA 0 SCHR
	03 0 00006		LRS 0 6
01700	12 7 01762	INSERT	LDA 7 AREA
	07 0 00006		LLS 0 6
01701	20 7 01762		STA 7 AREA
	03 0 00006		LRS 0 6
01702	37 0 01765		SSH 0 WLNTH
	75 0 01705		SLJ 0 /+3
01703	72 0 01762		RAO 0 AREA
	15 0 01764		SUB 0 ARMAX
01704	22 2 01734		AJP 2 WRITE
	50 0 00000		ENI 0 0
01705	72 0 01766		RAO 0 CTR
	55 2 01700		IJP 2 INSERT
01706	53 2 01767		LIL 2 TWOTEM
	16 0 01770		LDQ 0 QTEM
01707	75 0 00000	MTOT	SLJ 0 0
	22 3 01755		AJP 3 WEOF
01710	21 0 01770		STQ 0 QTEM
	57 2 01767		SIL 2 TWOTEM
01711	36 0 01771		SSK 0 RINK
	75 4 01722		SLJ 4 RESET
01712	64 0 01772		EQS 0 COLCR
	75 0 01717		SLJ 0 FILLTEST
01713	12 0 01761	TABCNT	LDA 0 COLMN
	15 0 01766		SUB 0 CTR
01714	22 2 01676		AJP 2 TABSERT

	72 0 01775		RAO 0 COLKP
01715	12 7 01775		LDA 7 COLKP
	20 0 01761		STA 0 COLMN
01716	75 0 01713		SLJ 0 TABCNT
	00 0 00000		00 0 0
01717	64 0 01773	FILLTEST	EQS 0 FILCR
	75 0 01674		SLJ 0 NORCHR
01720	50 2 77776		ENI 2 77776
	75 0 01677		SLJ 0 CRSRT
01721	75 4 01743		SLJ 4 WTCK
	00 0 00000		00 0 0
01722	75 0 00000	RESET	SLJ 0 0
	53 2 01763		LIL 2 ARBASE
01723	57 2 01762		SIL 2 AREA
	04 0 00000		ENQ 0 0
01724	21 0 01766		STQ 0 CTR
	53 2 01776		LIL 2 COLBASE
01725	57 2 01775		SIL 2 COLKP
	16 7 01775		LDQ 7 COLKP
01726	21 0 01761		STQ 0 COLMN
	04 0 77776		ENQ 0 -1
01727	21 0 01771		STQ 0 RINK
	50 0 00000		ENI 0 0
01730	36 0 01777		SSK 0 CK
	75 0 01721		SLJ 0 RESET-1
01731	04 0 00000		ENQ 0 0
	21 0 01777		STQ 0 CK
01732	53 2 01763		LIL 2 ARBASE
	57 2 01741		SIL 2 DOWT+2

01733	75 0 01722		SLJ 0 RESET
	00 0 00000		00 0 0
01734	10 0 00000	WRITE	ENA 0 0
	20 0 01771		STA 0 RINK
01735	75 4 01737		SLJ 4 DOWT
	00 0 00000		00 0 0
01736	75 0 01706		SLJ 0 MTOT-1
	00 0 00000		00 0 0
01737	75 0 00000	DOWT	SLJ 0 0
	74 0 42122		EXF 0 42122
01740	12 0 01764		LDA 0 ARMAX
	74 7 42000		EXF 7 42000
01741	61 0 00004		SAL 0 4
	74 4 76567		EXF 4 76567
01742	75 0 01737		SLJ 0 DOWT
	00 0 00000		00 0 0
01743	75 0 00000	WTCK	SLJ 0 0
	50 2 00005		ENI 2 5
01744	50 0 00000		ENI 0 0
	74 7 42000		EXF 7 42000
01745	74 7 42003		EXF 7 42003
	75 0 01751		SLJ 0 WER
01746	74 7 42005		EXF 7 42005
	75 0 01751		SLJ 0 WER
01747	74 7 42006		EXF 7 42006
	75 0 01743		SLJ 0 WTCK
01750	75 0 01754		SLJ 0 ERIND
	00 0 00000		00 0 0
01751	74 0 42006	WER	EXF 0 42006

	74 7 42000		EXF 7 42000
01752	75 4 01737		SLJ 4 DOWT
	00 0 00000		00 0 0
01753	55 2 01744		IJP 2 WTCK+1
	50 0 00000		ENI 0 0
01754	76 1 01743	ERIND	SLS 1 WTCK
	00 0 00000		00 0 0
01755	74 0 42003	WEOF	EXF 0 42003
	10 0 77776		ENA 0 -1
01756	20 0 01777		STA 0 CK
	74 7 42000		EXF 7 42000
01757	74 0 42005		EXF 0 42005
	75 0 01706		SLJ 0 MTOT-1
01760	00 0 00000	TEMRD	OCT 0
	00 0 00000		
01761	00 0 00000	COLMN	OCT 0
	00 0 00000		
01762	00 0 00000	AREA	00 0 0
	00 0 02014		00 0 OUTSPACE
01763	00 0 00000	ARBASE	00 0 0
	00 0 02014		00 0 OUTSPACE
01764	00 0 00000	ARMAX	00 0 0
	00 0 02033		00 0 OUTSPACE+17
01765	00 2 00401	WLNTH	00 2 00401
	00 2 00401		00 2 00401
01766	00 0 00000	CTR	OCT 0
	00 0 00000		
01767	00 0 00000	TWOTEM	OCT 0
	00 0 00000		

01770	00 0 00000	QTEM	OCT	0
	00 0 00000			
01771	00 0 00000	RINK	OCT	0
	00 0 00000			
01772	00 0 00000	COLCR	OCT	0
	00 0 00000			
01773	00 0 00000	FILCR	OCT	77
	00 0 00077			
01774	00 0 00000	SCHR	OCT	20
	00 0 00020			
01775	00 0 00000	COLKP	OCT	0
	00 0 00000			
01776	00 0 00000	COLBASE	00 0 0	
	00 0 02000		00 0 COLL	
01777	77 7 77777	CK	OCT	-1
	77 7 77776			
02000	00 0 00000	COLL	OCT	7
	00 0 00007			
02001	00 0 00000		OCT	30
	00 0 00030			
02002	00 0 00000		OCT	40
	00 0 00040			
02003	00 0 00000		OCT	50
	00 0 00050			
02004	00 0 00000		BSS	10
	00 0 00000			
02014	00 0 00000	OUTSPACE	BSS	20
	00 0 00000			
02034	00 0 00000	MEMLO	OCT	0

00 0 00000

02035 00 0 00000 CNTZRO OCT 0

00 0 00000

02036 00 0 00000 CHRT BSS 40

00 0 00000

END

SKIP LO	TPX	Ø 5
SKIP LO	CRTN	Ø 1
SKIP LO	PAPERI	Ø 9
SKIP LO	DOWT	Ø 3
SKIP LO	WTCK	Ø 3
SKIP LO	WER	Ø 1
SKIP LO	WEOF	Ø 3