

LENGTH OF PRG 00440

LENGTH OF PRG	PRG	IDENT	LIBTAB
		1	
		3	
00026		4	ENTRY CMPAGE1
00027		5	ENTRY CMPAGE2
00030		6	ENTRY CMPAGE3
00032	P	7	ENTRY CMSYSP
00000	P	8	ENTRY FDLLENGTH
00001	P	9	ENTRY FILEDIR
00420	P	10	ENTRY LIBCALL
00363	P	11	ENTRY LIBMOVE
00160	P	12	ENTRY RADARP
00002	P	13	ENTRY UDLENGTH
00003	P	14	ENTRY USERDIR
00000		15	ENTRY ZEROTRAK
		16	
		17	EXT A
		18	EXT CMEXIT
		19	EXT CR
		20	EXT ERROR01
		21	EXT EXECINST
		22	EXT IOCLEAR
		23	EXT IS
		24	EXT LIBMASK
		25	EXT MEMSET
		26	EXT NDELAY
		27	EXT PC
		28	EXT Q
		29	EXT RETURN
		30	EXT SYSCM
		31	EXT SYSCODE
		32	EXT TERMINAL
		33	EXT XREQEND
		34	
		35	
		36	EXT EDIT
		37	EXT RADAR
		38	
00001		39	X1 EQU 1
00002		40	X2 EQU 2
00003		41	X3 EQU 3
		42	
00000		43	PSA EQU 0
		44	
07773		45	DINT EQU 77730
07774		46	EINT EQU 77748
		47	
		48	
00000		49	IMPURE EQU 00000
00067		50	LRISD EQU 678
00076		51	URISD EQU 768
00060		52	ORNORM EQU 608
		53	
		54	
00000		55	CMODE EQU 0
00001		56	NCMODE EQU 1
00000		57	NOPROTEC EQU 0
00001		58	PROTEC EQU 1
		59	
		60	
		61	*****
		62	* STARTING ADDRESS FOR LIBRARY ROUTINES *
		63	* *****
		64	
		65	
30000		66	CMSYS EQU 30000B
00001		67	COPY EQU 00001B
00000		68	COSY EQU 00000B
00002		69	DATE EQU 00002B
00003		70	DUMP EQU 00003B
00000		71	FORTTRAN EQU 00000B
00004		72	LABEL EQU 00004B
00000		73	LOADER EQU 00000B
77776		74	OSCAR EQU 77776B
24000		75	PARA EQU 24000B
33777		76	SIPS EQU 33777B

PROGRAM STATE ^ EINT
 SEZ PUT INTO CONTROL MODE
 SEZ NOT CMODE
 SEZ NO MEMORY PROTECT
 SEZ MEMCRY PROTECT

```

70 *
80 * THE OS3 ABSOLUTE LIBRARY IS ORGANIZED INTO BLOCKS OF
81 * ONE PAGE ( 2048 WORDS ).
82 *
83 * THE LIBRARY ROUTINES ARE PLACED ON THE BACKUP MEMORY BY
84 * GENERATING AN OVERLAY OF THE ROUTINE AND USING SYSLIB TO
85 * WRITE THE OVERLAY ONTO THE BACKUP MEMORY AT THE SPECIFIED
86 * LOCATIONS.
87 *
88 * CERTAIN OF THE LIBRARY ROUTINES ARE WRITTEN AS PURE CODE
89 * . . . AN ENTIRE BLOCK WILL HAVE NO STORES INTO IT.
90 * THESE PURE CODE BLOCKS MAY BE USED BY MORE THAN ONE PERSON AT
91 * ONCE, AND FURTHERMORE, IF A PURE CODE PAGE IS TO BE SWAPPED
92 * OUT, IT DOES NOT NEED TO BE REWRITTEN ONTO THE BACKUP MEMORY
93 * SINCE IT IS A READ ONLY PAGE AND COULD NOT HAVE BEEN MODIFIED.
94 *
95 * EVERY PURE CODE PAGE HAS A CONTROL BLOCK ASSOCIATED WITH IT
96 * THIS BLOCK IS ARRANGED ACCORDING TO THE MACRO EXPANSION OF
97 * THE BLOCK MACRO
98 *
99 *

```

* BLOCK DEFINITIONS FOR THE LIBRARY

```

00000 ZEROTRAK EQU 0000
MACRO P1,,P3
NAME DISKPAGE
$P1 EQU 160+4*($P3-1)
END
RDRTRAK1 DISKPAGE 1 RADAR 854
RDRTRAK1 EQU 160+4*(1-1)
RDRTRAK2 DISKPAGE 2
RDRTRAK2 EQU 160+4*(2-1)
*DO NOT USE 3 841
RDRTRAK3 DISKPAGE 4
RDRTRAK3 EQU 160+4*(4-1)
PARATRAK DISKPAGE 6 PARA 854
PARATRAK EQU 160+4*(6-1)
OSCTRK07 DISKPAGE 7 OSCAR
OSCTRK07 EQU 160+4*(7-1)
OSCTRK10 DISKPAGE 8
OSCTRK10 EQU 160+4*(8-1)
OSCTRK11 DISKPAGE 9
OSCTRK11 EQU 160+4*(9-1)
OSCTRK12 DISKPAGE 10
OSCTRK12 EQU 160+4*(10-1)
OSCTRK13 DISKPAGE 11 854
OSCTRK13 EQU 160+4*(11-1)
OSCTRK14 DISKPAGE 12
OSCTRK14 EQU 160+4*(12-1)
OSCTRK15 DISKPAGE 13
OSCTRK15 EQU 160+4*(13-1)
OSCTRK16 DISKPAGE 14
OSCTRK16 EQU 160+4*(14-1)
OSCTRK17 DISKPAGE 15
OSCTRK17 EQU 160+4*(15-1)
127+001 * OLD UTILITY 16
BSCTRK14 DISKPAGE 17 BASIC
BSCTRK14 EQU 160+4*(17-1)
BSCTRK15 DISKPAGE 18
BSCTRK15 EQU 160+4*(18-1)
BSCTRK16 DISKPAGE 19
BSCTRK16 EQU 160+4*(19-1)
BSCTRK17 DISKPAGE 20
BSCTRK17 EQU 160+4*(20-1)
EDITTRK1 DISKPAGE 21 EDIT 854 841
EDITTRK1 EQU 160+4*(21-1)
EDITTRK2 DISKPAGE 22
EDITTRK2 EQU 160+4*(22-1)
EDITTRK3 DISKPAGE 23
EDITTRK3 EQU 160+4*(23-1)
COSYTR00 DISKPAGE 24 COSY

```

```

00374      111  COSYTR00 EQU 160+4*(24-1)
           137  COSYTR01 DISKPAGE 25
00400      111  COSYTR01 EQU 160+4*(25-1)
           138  *AVAILABLE 26
           139  FTNTRAK DISKPAGE 27          FTN 2.1      854
00410      111  FTNTRAK EQU 160+4*(27-1)
           140  FTNTRK10 DISKPAGE 28
00414      111  FTNTRK10 EQU 160+4*(28-1)
           141  FTNTRK11 DISKPAGE 29
00420      111  FTNTRK11 EQU 160+4*(29-1)
           142  FTNTRK12 DISKPAGE 30
00424      111  FTNTRK12 EQU 160+4*(30-1)
           143  FTNTRK13 DISKPAGE 31          854
00430      111  FTNTRK13 EQU 160+4*(31-1)
           144  FTNTRK14 DISKPAGE 32
00434      111  FTNTRK14 EQU 160+4*(32-1)
           145  FTNTRK15 DISKPAGE 33
00440      111  FTNTRK15 EQU 160+4*(33-1)
           146  FTNTRK16 DISKPAGE 34
00444      111  FTNTRK16 EQU 160+4*(34-1)
           147  FTNTRK17 DISKPAGE 35
00450      111  FTNTRK17 EQU 160+4*(35-1)
           147+001

```

```

*****
147+003 *
147+004 *      THE FOLLOWING EXTERNAL SYMBOLS DEFINE THE DISK ADDRESSES
147+005 *      OF THE CONTROL-MODE PAGES.  THESE EXTERNALS ARE THEN
147+006 *      DEFINED WITH "EXS" CARDS AT SYSTEM LOAD TIME, SO THAT
147+007 *      THE PAGES MAY BE MOVED AROUND WITH EASE IN CASE
147+008 *      EXPERIMENTAL VERSIONS OF THE CONTROL MODE ARE RUN.
147+009 *
*****

```

```

147+011
147+012      EXT      CMSTRAK1      FIRST PAGE OF CONTROL MODE
147+013      EXT      CMSTRAK2      SECOND PAGE OF CONTROL MODE
147+014
147+015

```

```

           *DO NOT USE      38
153      LCAOTRAK DISKPAGE 41          LOADER      854
00500      111  LOADTRAK EQU 160+4*(41-1)
           154  LDR2TRAK DISKPAGE 42
00504      111  LDR2TRAK EQU 160+4*(42-1)
           155  *      43 SPARE LOADER
           156  *      44 SPARE
           157  * F30 EXPANSION 45
           158  FTN3TR00 DISKPAGE 46          FTN 3.0      854
00524      111  FTN3TR00 EQU 160+4*(46-1)
           159  FTN3TR07 DISKPAGE 47
00530      111  FTN3TR07 EQU 160+4*(47-1)
           160  FTN3TR10 DISKPAGE 48
00534      111  FTN3TR10 EQU 160+4*(48-1)
           161  FTN3TR11 DISKPAGE 49
00540      111  FTN3TR11 EQU 160+4*(49-1)
           162  FTN3TR12 DISKPAGE 50
00544      111  FTN3TR12 EQU 160+4*(50-1)
           163  FTN3TR13 DISKPAGE 51          854
00550      111  FTN3TR13 EQU 160+4*(51-1)
           164  FTN3TR14 DISKPAGE 52
00554      111  FTN3TR14 EQU 160+4*(52-1)
           165  FTN3TR15 DISKPAGE 53
00560      111  FTN3TR15 EQU 160+4*(53-1)
           166  FTN3TR16 DISKPAGE 54
00564      111  FTN3TR16 EQU 160+4*(54-1)
           167  FTN3TR17 DISKPAGE 55
00570      111  FTN3TR17 EQU 160+4*(55-1)
           168  ASSEM13 DISKPAGE 56          ASSEMBLER 854 841
00574      111  ASSEM13 EQU 160+4*(56-1)
           169  ASSEM14 DISKPAGE 57
00600      111  ASSEM14 EQU 160+4*(57-1)
           170  ASSEM15 DISKPAGE 58
00604      111  ASSEM15 EQU 160+4*(58-1)
           171  ASSEM16 DISKPAGE 59
00610      111  ASSEM16 EQU 160+4*(59-1)
           172  ASSEM17 DISKPAGE 60
00614      111  ASSEM17 EQU 160+4*(60-1)
           173  FTNXTR00 DISKPAGE 61          EXP FTN      854
00620      111  FTNXTR00 EQU 160+4*(61-1)
           174  FTNXTR07 DISKPAGE 62
00624      111  FTNXTR07 EQU 160+4*(62-1)
           175  FTNXTR10 DISKPAGE 63

```

00630	111	FTNXTR10	EQU	160+4*(63-1)	
	176	FTNXTR11	DISKPAGE	64	
00634	111	FTNXTR11	EQU	160+4*(64-1)	
	177	FTNXTR12	DISKPAGE	65	
00640	111	FTNXTR12	EQU	160+4*(65-1)	
	178	FTNXTR13	DISKPAGE	66	854
00644	111	FTNXTR13	EQU	160+4*(66-1)	
	179	FTNXTR14	DISKPAGE	67	
00650	111	FTNXTR14	EQU	160+4*(67-1)	
	180	FTNXTR15	DISKPAGE	68	
00654	111	FTNXTR15	EQU	160+4*(68-1)	
	181	FTNXTR16	DISKPAGE	69	
00660	111	FTNXTR16	EQU	160+4*(69-1)	
	182	FTNXTR17	DISKPAGE	70	
00664	111	FTNXTR17	EQU	160+4*(70-1)	
	182+001	UTILTRAK	DISKPAGE	71	UTILITY 854
00670	111	UTILTRAK	EQU	160+4*(71-1)	
	182+002	UTILTRK2	DISKPAGE	72	
00674	111	UTILTRK2	EQU	160+4*(72-1)	
	185	*DO NOT USE		73	841
	186	SIPSTR1	DISKPAGE	74	
00704	111	SIPSTR1	EQU	160+4*(74-1)	
	187	SIPSTR2	DISKPAGE	75	
00710	111	SIPSTR2	EQU	160+4*(75-1)	
	188	SIPSTR3	DISKPAGE	76	
00714	111	SIPSTR3	EQU	160+4*(76-1)	
	189	SIPSTR4	DISKPAGE	77	
00720	111	SIPSTR4	EQU	160+4*(77-1)	
	190	*		78	
	191	*		79	
	192	*		80	
	193	*		81	854
	194	*		82	
	195	*		83	
	196	*		84	
	197	*		85	
	198	*		86	854
	199	*		87	
	200	*		88	
	201	*		89	
	202	*		90	
	203	*		91	854 841
	204	*		92	
	205	*		93	
	206	*		94	
	207	*		95	
	208	*		96	854
	209	*		97	
	210	*		98	
	211	*		99	
	212	*		100	
	213	*		101	854
	214	*		102	
	215	*		103	
	216	*		104	
	217	*		105	
	218	*		106	854
	219	*		107	
	220	*DO NOT USE		108	841
	221	*		109	
	222	*		110	

00000	00000000	224	FOLENGTH	VFD	A24/IMPURE
00001	00000000	225	FILEDIR	VFD	A24/IMPURE
00002	00000000	226	UOLENGTH	VFD	A24/IMPURE
00003	00000000	227	USERDIR	VFD	A24/IMPURE

228+002 *****

228+003 *****

228+004 *****

228+005 *****

228+006 *****

228+007 *****

228+008 *****

228+009 *****

228+010 *****

228+011 *****

228+012 *****

228+013 *****

228+014 *****

228+015 *****

228+016 *****

228+017 *****

228+018 *****

228+019 *****

228+020 *****

228+021 *****

228+022 *****

228+023 *****

228+024 *****

228+025 *****

228+026 *****

228+027 *****

228+028 *****

228+029 *****

228+030 *****

228+031 *****

228+032 *****

228+033 *****

228+034 *****

228+035 *****

228+036 *****

228+037 *****

228+038 *****

228+039 *****

228+040 *****

228+041 *****

228+042 *****

228+043 *****

228+044 *****

228+045 *****

228+046 *****

228+047 *****

228+048 *****

228+049 *****

228+050 *****

228+051 *****

228+052 *****

228+053 *****

228+054 *****

228+055 *****

228+056 *****

MAP OF LIBCALL ROUTINES UNDER OS-3 VERSION 5.2

NAME OF LIBRARY ROUTINE

	ASSEM	BASIC	CNTLMODE	COSY	EDIT	EDITX	FORTAN	FTNX	LOAD	OLDFTN	OSCAR	PARA	RADAR	SIPS	UTILITY
000000	.	.	.	P	.	.	I	I	Z	I	.	.	.	.	.
004000	.	.	.	P	.	.	.	.	Z	.	.	.	.	.	.
010000	Z	.	.	.	.	P	.
014000	Z	.	.	.	.	P	.
020000	Z	.	.	.	.	P	.
024000	Z	.	.	.	.	P	.
030000	P	Z	.	P	.	.	.	.
034000	P	P	Z	.	P	.	.	.	.
040000	P	P	Z	.	P	.	.	.	.
044000	P	P	Z	.	P	.	.	.	.
050000	P	P	Z	.	P	.	.	.	.
054000	I	.	.	.	.	.	P	P	Z	.	P	.	.	.	.
060000	I	P	.	.	.	.	P	P	Z	.	P	.	.	.	.
064000	I	P	.	.	.	.	P	P	Z	.	P	.	.	.	.
070000	I	P	.	.	.	.	P	P	Z	.	P	.	.	.	.
074000	I	P	.	.	.	.	P	P	Z	.	P	.	.	.	.
100000	I	.	.	.	.	.	P
104000	I	.	.	.	.	.	.
110000
114000
120000	I	.	.	.	.
124000	I	.	.	.	.
130000
134000
140000
144000
150000
154000
160000	P	.	.
164000	P	.	.
170000
174000

I - IMPURE PAGE
P - PURE (RE-ENTRANT) PAGE
Z - ZERO PAGE (IMPURE)

```

*****
230 *
231 *
232 * LIBRARY TABLES
233 *
234 * THE LIBRARY TABLE HAS THE FOLLOWING FORMAT
235 * FIRST WORD
236 * VFD A6/CR,A1/MEMPROTECT,A1/CMODE,A1/0,A15/PC
237 * WHERE CR IS THE 6 BIT HARDWARE CONDITION REGISTER
238 * MEMPROTECT IS THE MEMORY PROTECT BIT IN THE PSA
239 * CMODE IS THE STATUS OF THE CONTROL MODE INDICATOR
240 * PC STARTING ADDRESS OF THE ROUTINE
241 * SECOND WORD
242 * VFD A24/INTERNAL STATUS WORD FOR THE PSA
243 * SUCCEEDING WORDS HAVE THE FOLLOWING FORMAT
244 * VFD 03/WW,01/X,05/YY,A15/ZZZ
245 * WHERE WW AND ZZZ FORM THE WORD PLACED IN THE VIRTUAL MEMORY
246 * MAP FOR PAGE YY
247 * IF X IS A ONE THIS IS THE LAST PAGE OF THE PROGRAM.
248 * OTHERWISE, EXAMINE THE NEXT ELEMENT WHICH WILL HAVE THE
249 * SAME FORMAT.
*****

```

```

252
253 MACRO LAB,,P3
254 NAME LIBMAC
255 $LAB VFD A6/$P3(1),A1/$P3(2),A1/$P3(5),A1/0,A15/$P3(4)
256 VFD 012/$P3(6),A12/$P3(3)
257 END
258
259 MACRO LAB,,ADDRESS
260 NAME UTILITY
261 $LAB LIBMAC CRNORM,NOPROTEC,URISD,$ADDRESS,NCMODE,0000
262 VFD 03/4,01/1,05/20,A15/UTILC
263 END

```

```

00000
00001
00002
00004

```

```

264
265
266 NOTLAST EQU 0
267 LAST EQU 1
268 NOTPURE EQU 2
269 PURE EQU 4
270
271 MACRO ,KRUD
272 NAME PAGE
273 VFD 03/$KRUD(1),01/$KRUD(2),05/$KRUD(3),A15/$KRUD(4)
274 END
275
276

```

```

00004 60277776
00005 00000067
00006 21300574
00007 21400600
00010 21500604
00011 21600610
00012 25700614
00013 60677776
00014 00000067
00015 21400340
00016 41500267
00017 41600270
00020 45700271
00021 60200001
00022 00000076
00023 46000345

```

```

277 ASSEMP LIBMAC CRNORM,NOPROTEC,LRISD,77776B,NCMODE,0000
278 ASSEMP VFD A6/CRNORM,A1/NOPROTEC,A1/NCMODE,A1/0,A15/77776B
279 VFD 012/0000,A12/LRISD
280 PAGE NOTPURE,NOTLAST,13,ASSEM13
281 VFD 03/NOTPURE,01/NOTLAST,05/13,A15/ASSEM13
282 PAGE NOTPURE,NOTLAST,14,ASSEM14
283 VFD 03/NOTPURE,01/NOTLAST,05/14,A15/ASSEM14
284 PAGE NOTPURE,NOTLAST,15,ASSEM15
285 VFD 03/NOTPURE,01/NOTLAST,05/15,A15/ASSEM15
286 PAGE NOTPURE,NOTLAST,16,ASSEM16
287 VFD 03/NOTPURE,01/NOTLAST,05/16,A15/ASSEM16
288 PAGE NOTPURE,NOTLAST,17,ASSEM17
289 VFD 03/NOTPURE,01/LAST,05/17,A15/ASSEM17
290
291 BASICP LIBMAC CRNORM,PROTEC,LRISD,77776B,NCMODE,0000
292 BASICP VFD A6/CRNORM,A1/PROTEC,A1/NCMODE,A1/0,A15/77776B
293 VFD 012/0000,A12/LRISD
294 PAGE NOTPURE,NOTLAST,14,BSCTRK14
295 VFD 03/NOTPURE,01/NOTLAST,05/14,A15/BSCTRK14
296 PAGE PURE,NOTLAST,15,BASIC15
297 VFD 03/PURE,01/NOTLAST,05/15,A15/BASIC15
298 PAGE PURE,NOTLAST,16,BASIC16
299 VFD 03/PURE,01/NOTLAST,05/16,A15/BASIC16
300 PAGE PURE,NOTLAST,17,BASIC17
301 VFD 03/PURE,01/LAST,05/17,A15/BASIC17
302
303 COPYP UTILITY COPY
304 COPYP LIBMAC CRNORM,NOPROTEC,URISD,COPY,NCMODE,0000
305 COPYP VFD A6/CRNORM,A1/NOPROTEC,A1/NCMODE,A1/0,A15/COPY
306 VFD 012/0000,A12/URISD
307 VFD 03/4,01/1,05/20,A15/UTILC

```

		291			
		292	DATEP	UTILITY	DATE
		261	DATEP	LIBMAC	CRNORM,NOPROTEC,URISD,DATE,NCMCDE,0000
00024	60200002	255	DATEP	VFD	A6/CRNORM,A1/NOPROTEC,A1/NCMODE,A1/0,A15/DATE
00025	00000076	256		VFD	012/0000,A12/URISD
00026	46000345	262		VFD	03/4,01/1,05/20,A15/UTILC
		293			
		294	DUMPP	UTILITY	DUMP
		261	DUMPP	LIBMAC	CRNORM,NOPROTEC,URISD,DUMP,NCMCDE,0000
00027	60200003	255	DUMPP	VFD	A6/CRNORM,A1/NOPROTEC,A1/NCMODE,A1/0,A15/DUMP
00030	00000076	256		VFD	012/0000,A12/URISD
00031	46000345	262		VFD	03/4,01/1,05/20,A15/UTILC
		295			
		296	CMSYSP	LIBMAC	CRNORM,NOPROTEC,URISD,CMSYS,CMODE,0000
00032	60030000	255	CMSYSP	VFD	A6/CRNORM,A1/NOPROTEC,A1/CMODE,A1/0,A15/CMSYS
00033	00000076	256		VFD	012/0000,A12/URISD
	00026	297	CMPAGE1	EQU	268
	00027	298	CMPAGE2	EQU	278
	00030	299	CMPAGE3	EQU	308
		300		PAGE	PURE,NOTLAST,CMPAGE1,CMSYS1
00034	42600272	273		VFD	03/PURE,01/NOTLAST,05/CMPAGE1,A15/CMSYS1
		301		PAGE	PURE,LAST,CMPAGE2,CMSYS2
00035	46700273	273		VFD	03/PURE,01/LAST,05/CMPAGE2,A15/CMSYS2
		302			
		303	COSYP	LIBMAC	CRNORM,NOPROTEC,LRISD,COSY,NCMODE,0000
00036	60200000	255	COSYP	VFD	A6/CRNORM,A1/NOPROTEC,A1/NCMODE,A1/0,A15/COSY
00037	00000067	256		VFD	012/0000,A12/URISD
		304		PAGE	PURE,NOTLAST,00,COSYC1
00040	40000274	273		VFD	03/PURE,01/NOTLAST,05/00,A15/COSYC1
		305		PAGE	NOTPURE,LAST,01,COSYTR01
00041	24100400	273		VFD	03/NOTPURE,01/LAST,05/01,A15/COSYTR01
		306			
		307	EDITP	LIBMAC	CRNORM,NOPROTEC,URISD,EDIT,NCMODE,0000
00042	60277777	255	EDITP	VFD	A6/CRNORM,A1/NOPROTEC,A1/NCMCDE,A1/0,A15/EDIT
00043	00000076	256		VFD	012/0000,A12/URISD
		308		PAGE	PURE,NOTLAST,30,EDITC1
00044	43000275	273		VFD	03/PURE,01/NOTLAST,05/30,A15/EDITC1
		309		PAGE	PURE,NOTLAST,31,EDITC2
00045	43100276	273		VFD	03/PURE,01/NOTLAST,05/31,A15/EDITC2
		310		PAGE	PURE,LAST,32,EDITC3
00046	47200277	273		VFD	03/PURE,01/LAST,05/32,A15/EDITC3
		311			
		312	FORTRANP	LIBMAC	CRNORM,NOPROTEC,LRISD,FORTRAN,NCMODE,1000
00047	60200000	255	FORTRANP	VFD	A6/CRNORM,A1/NOPROTEC,A1/NCMODE,A1/0,A15/FORTRAN
00050	10000067	256		VFD	012/1000,A12/URISD
		313		PAGE	NOTPURE,NOTLAST,00,FTNTRAK
00051	20000410	273		VFD	03/NOTPURE,01/NOTLAST,05/00,A15/FTNTRAK
		314		PAGE	PURE,NOTLAST,10,FTNC10
00052	41000311	273		VFD	03/PURE,01/NOTLAST,05/10,A15/FTNC10
		315		PAGE	PURE,NOTLAST,11,FTNC11
00053	41100312	273		VFD	03/PURE,01/NOTLAST,05/11,A15/FTNC11
		316		PAGE	PURE,NOTLAST,12,FTNC12
00054	41200313	273		VFD	03/PURE,01/NOTLAST,05/12,A15/FTNC12
		317		PAGE	PURE,NOTLAST,13,FTNC13
00055	41300314	273		VFD	03/PURE,01/NOTLAST,05/13,A15/FTNC13
		318		PAGE	PURE,NOTLAST,14,FTNC14
00056	41400315	273		VFD	03/PURE,01/NOTLAST,05/14,A15/FTNC14
		319		PAGE	PURE,NOTLAST,15,FTNC15
00057	41500316	273		VFD	03/PURE,01/NOTLAST,05/15,A15/FTNC15
		320		PAGE	PURE,NOTLAST,16,FTNC16
00060	41600317	273		VFD	03/PURE,01/NOTLAST,05/16,A15/FTNC16
		321		PAGE	PURE,LAST,17,FTNC17
00061	45700320	273		VFD	03/PURE,01/LAST,05/17,A15/FTNC17
		322			
		323	FTN3P	LIBMAC	CRNORM,PROTEC,LRISD,000000,NCMCDE,1000
00062	60600000	255	FTN3P	VFD	A6/CRNORM,A1/PROTEC,A1/NCMODE,A1/0,A15/000000
00063	10000067	256		VFD	012/1000,A12/URISD
		324		PAGE	NOTPURE,NOTLAST,00,FTN3TR00
00064	20000524	273		VFD	03/NOTPURE,01/NOTLAST,05/00,A15/FTN3TR00
		325		PAGE	PURE,NOTLAST,07,FTN3C07
00065	40700300	273		VFD	03/PURE,01/NOTLAST,05/07,A15/FTN3C07
		326		PAGE	PURE,NOTLAST,10,FTN3C10
00066	41000301	273		VFD	03/PURE,01/NOTLAST,05/10,A15/FTN3C10
		327		PAGE	PURE,NOTLAST,11,FTN3C11
00067	41100302	273		VFD	03/PURE,01/NOTLAST,05/11,A15/FTN3C11
		328		PAGE	PURE,NOTLAST,12,FTN3C12
00070	41200303	273		VFD	03/PURE,01/NOTLAST,05/12,A15/FTN3C12
		329		PAGE	PURE,NOTLAST,13,FTN3C13
00071	41300304	273		VFD	03/PURE,01/NOTLAST,05/13,A15/FTN3C13

00072	41400305	330	PAGE	PURE, NOTLAST, 14, FTN3C14
		273	VFD	03/PURE, 01/NOTLAST, 05/14, A15/FTN3C14
		331	PAGE	PURE, NOTLAST, 15, FTN3C15
00073	41500306	273	VFD	03/PURE, 01/NOTLAST, 05/15, A15/FTN3C15
		332	PAGE	PURE, NOTLAST, 16, FTN3C16
00074	41600307	273	VFD	03/PURE, 01/NOTLAST, 05/16, A15/FTN3C16
		333	PAGE	PURE, LAST, 17, FTN3C17
00075	45700310	273	VFD	03/PURE, 01/LAST, 05/17, A15/FTN3C17
		334		
		335	FTNXP LIBMAC	CRNORM, PROTEC, LRISD, 000008, NCMODE, 1000
00076	60600000	255	VFD	A6/CRNORM, A1/PROTEC, A1/NCMODE, A1/0, A15/000008
00077	10000067	256	VFD	012/1000, A12/LRISD
		336	PAGE	NOTPURE, NOTLAST, 00, FTNXTR00
00100	20000620	273	VFD	03/NOTPURE, 01/NOTLAST, 05/00, A15/FTNXTR00
		337	PAGE	PURE, NOTLAST, 07, FTNXC07
00101	40700321	273	VFD	03/PURE, 01/NOTLAST, 05/07, A15/FTNXC07
		338	PAGE	PURE, NOTLAST, 10, FTNXC10
00102	41000322	273	VFD	03/PURE, 01/NOTLAST, 05/10, A15/FTNXC10
		339	PAGE	PURE, NOTLAST, 11, FTNXC11
00103	41100323	273	VFD	03/PURE, 01/NOTLAST, 05/11, A15/FTNXC11
		340	PAGE	PURE, NOTLAST, 12, FTNXC12
00104	41200324	273	VFD	03/PURE, 01/NOTLAST, 05/12, A15/FTNXC12
		341	PAGE	PURE, NOTLAST, 13, FTNXC13
00105	41300325	273	VFD	03/PURE, 01/NOTLAST, 05/13, A15/FTNXC13
		342	PAGE	PURE, NOTLAST, 14, FTNXC14
00106	41400326	273	VFD	03/PURE, 01/NOTLAST, 05/14, A15/FTNXC14
		343	PAGE	PURE, NOTLAST, 15, FTNXC15
00107	41500327	273	VFD	03/PURE, 01/NOTLAST, 05/15, A15/FTNXC15
		344	PAGE	PURE, NOTLAST, 16, FTNXC16
00110	41600330	273	VFD	03/PURE, 01/NOTLAST, 05/16, A15/FTNXC16
		345	PAGE	PURE, LAST, 17, FTNXC17
00111	45700331	273	VFD	03/PURE, 01/LAST, 05/17, A15/FTNXC17
		346		
		346+001	LABELP LIBMAC	CRNORM, NOPROTEC, URISD, LABEL, NCMODE, 0000
00112	60200004	255	VFD	A6/CRNORM, A1/NOPROTEC, A1/NCMODE, A1/0, A15/LABEL
00113	00000076	256	VFD	012/0000, A12/URISD
		346+002	PAGE	PURE, NOTLAST, 20, UTILC
00114	42000345	273	VFD	03/PURE, 01/NOTLAST, 05/20, A15/UTILC
		346+003	PAGE	NOTPURE, LAST, 21, UTILTRK2
00115	26100674	273	VFD	03/NOTPURE, 01/LAST, 05/21, A15/UTILTRK2
		348		
		349	LOADP LIBMAC	CRNORM, NOPROTEC, URISD, LOADER, NCMODE, 0000
00116	60200000	255	VFD	A6/CRNORM, A1/NOPROTEC, A1/NCMODE, A1/0, A15/LOADER
00117	00000076	256	VFD	012/0000, A12/URISD
		351	PAGE	NOTPURE, NOTLAST, 00, ZEROTRAK
00120	20000000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/00, A15/ZEROTRAK
		352	PAGE	NOTPURE, NOTLAST, 01, ZEROTRAK
00121	20100000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/01, A15/ZEROTRAK
		353	PAGE	NOTPURE, NOTLAST, 02, ZEROTRAK
00122	20200000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/02, A15/ZEROTRAK
		354	PAGE	NOTPURE, NOTLAST, 03, ZEROTRAK
00123	20300000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/03, A15/ZEROTRAK
		355	PAGE	NOTPURE, NOTLAST, 04, ZEROTRAK
00124	20400000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/04, A15/ZEROTRAK
		356	PAGE	NOTPURE, NOTLAST, 05, ZEROTRAK
00125	20500000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/05, A15/ZEROTRAK
		357	PAGE	NOTPURE, NOTLAST, 06, ZEROTRAK
00126	20600000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/06, A15/ZEROTRAK
		358	PAGE	NOTPURE, NOTLAST, 07, ZEROTRAK
00127	20700000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/07, A15/ZEROTRAK
		359	PAGE	NOTPURE, NOTLAST, 10, ZEROTRAK
00130	21000000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/10, A15/ZEROTRAK
		360	PAGE	NOTPURE, NOTLAST, 11, ZEROTRAK
00131	21100000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/11, A15/ZEROTRAK
		361	PAGE	NOTPURE, NOTLAST, 12, ZEROTRAK
00132	21200000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/12, A15/ZEROTRAK
		362	PAGE	NOTPURE, NOTLAST, 13, ZEROTRAK
00133	21300000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/13, A15/ZEROTRAK
		363	PAGE	NOTPURE, NOTLAST, 14, ZEROTRAK
00134	21400000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/14, A15/ZEROTRAK
		364	PAGE	NOTPURE, NOTLAST, 15, ZEROTRAK
00135	21500000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/15, A15/ZEROTRAK
		365	PAGE	NOTPURE, NOTLAST, 16, ZEROTRAK
00136	21600000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/16, A15/ZEROTRAK
		366	PAGE	NOTPURE, NOTLAST, 17, ZEROTRAK
00137	21700000	273	VFD	03/NOTPURE, 01/NOTLAST, 05/17, A15/ZEROTRAK
		367	PAGE	NOTPURE, NOTLAST, 20, LOADTRAK
00140	22000500	273	VFD	03/NOTPURE, 01/NOTLAST, 05/20, A15/LCADTRAK

00141	26100504	368		PAGE	NOTPURE, LAST, 21, LDR2TRAK
		273		VFD	03/NOTPURE, 01/LAST, 05/21, A15/LDR2TRAK
		369			
00142	60677776	370	OSCARP	LIBMAC	CRNORM, PROTEC, LRISD, OSCAR, NCMODE, 0000
00143	00000067	255	OSCARP	VFD	A6/CRNORM, A1/PROTEC, A1/NCMODE, A1/0, A15/OSCAR
		256		VFD	012/0000, A12/LRISD
00144	40700332	371		PAGE	PURE, NOTLAST, 07, OSCARC07
		273		VFD	03/PURE, 01/NOTLAST, 05/07, A15/OSCARC07
		372		PAGE	PURE, NOTLAST, 10, OSCARC10
00145	41000333	273		VFD	03/PURE, 01/NOTLAST, 05/10, A15/OSCARC10
		373		PAGE	PURE, NOTLAST, 11, OSCARC11
00146	41100334	273		VFD	03/PURE, 01/NOTLAST, 05/11, A15/OSCARC11
		374		PAGE	PURE, NOTLAST, 12, OSCARC12
00147	41200335	273		VFD	03/PURE, 01/NOTLAST, 05/12, A15/OSCARC12
		375		PAGE	PURE, NOTLAST, 13, OSCARC13
00150	41300336	273		VFD	03/PURE, 01/NOTLAST, 05/13, A15/OSCARC13
		376		PAGE	PURE, NOTLAST, 14, OSCARC14
00151	41400337	273		VFD	03/PURE, 01/NOTLAST, 05/14, A15/OSCARC14
		377		PAGE	PURE, NOTLAST, 15, OSCARC15
00152	41500340	273		VFD	03/PURE, 01/NOTLAST, 05/15, A15/OSCARC15
		378		PAGE	PURE, NOTLAST, 16, OSCARC16
00153	41600341	273		VFD	03/PURE, 01/NOTLAST, 05/16, A15/OSCARC16
		379		PAGE	PURE, LAST, 17, OSCARC17
00154	45700342	273		VFD	03/PURE, 01/LAST, 05/17, A15/OSCARC17
		380			
		381	PARAP	LIBMAC	CRNORM, NOPROTEC, URISD, PARA, NCMODE, 0000
00155	60224000	255	PARAP	VFD	A6/CRNORM, A1/NOPROTEC, A1/NCMODE, A1/0, A15/PARA
00156	00000076	256		VFD	012/0000, A12/URISD
		382		PAGE	NOTPURE, LAST, 25, PARATRAK
00157	26500264	273		VFD	03/NOTPURE, 01/LAST, 05/25, A15/PARATRAK
		383			
		384	RADARP	LIBMAC	CRNORM, NOPROTEC, URISD, RADAR, NCMODE, 0000
00160	60277777	255	RADARP	VFD	A6/CRNORM, A1/NOPROTEC, A1/NCMODE, A1/0, A15/RADAR
00161	00000076	256		VFD	012/0000, A12/URISD
		385		PAGE	PURE, NOTLAST, 33, RADARC1
00162	43300343	273		VFD	03/PURE, 01/NOTLAST, 05/33, A15/RADARC1
		386		PAGE	PURE, NOTLAST, 34, RADARC2
00163	43400344	273		VFD	03/PURE, 01/NOTLAST, 05/34, A15/RADARC2
		387		PAGE	NOTPURE, LAST, 35, RDRTRAK3
00164	27500254	273		VFD	03/NOTPURE, 01/LAST, 05/35, A15/RDRTRAK3
		388	SIPSP	LIBMAC	CRNORM, NOPROTEC, LRISD, SIPS, NCMODE, 0000
00165	60233777	255	SIPSP	VFD	A6/CRNORM, A1/NOPROTEC, A1/NCMODE, A1/0, A15/SIPS
00166	00000067	256		VFD	012/0000, A12/LRISD
		388+001		PAGE	NOTPURE, NOTLAST, 00, ZEROTRAK
00167	20000000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/00, A15/ZEROTRAK
		388+002		PAGE	NOTPURE, NOTLAST, 01, ZEROTRAK
00170	20100000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/01, A15/ZEROTRAK
		388+003		PAGE	NOTPURE, NOTLAST, 02, ZEROTRAK
00171	20200000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/02, A15/ZEROTRAK
		388+004		PAGE	NOTPURE, NOTLAST, 07, ZEROTRAK
00172	20700000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/07, A15/ZEROTRAK
		388+005		PAGE	NOTPURE, NOTLAST, 10, ZEROTRAK
00173	21000000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/10, A15/ZEROTRAK
		388+006		PAGE	NOTPURE, NOTLAST, 11, ZEROTRAK
00174	21100000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/11, A15/ZEROTRAK
		388+007		PAGE	NOTPURE, NOTLAST, 12, ZEROTRAK
00175	21200000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/12, A15/ZEROTRAK
		388+008		PAGE	NOTPURE, NOTLAST, 13, ZEROTRAK
00176	21300000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/13, A15/ZEROTRAK
		388+009		PAGE	NOTPURE, NOTLAST, 14, ZEROTRAK
00177	21400000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/14, A15/ZEROTRAK
		388+010		PAGE	NOTPURE, NOTLAST, 15, ZEROTRAK
00200	21500000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/15, A15/ZEROTRAK
		388+011		PAGE	NOTPURE, NOTLAST, 16, ZEROTRAK
00201	21600000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/16, A15/ZEROTRAK
		388+012		PAGE	NOTPURE, NOTLAST, 17, ZEROTRAK
00202	21700000	273		VFD	03/NOTPURE, 01/NOTLAST, 05/17, A15/ZEROTRAK
		389		PAGE	PURE, NOTLAST, 03, SIPSC1
00203	40300346	273		VFD	03/PURE, 01/NOTLAST, 05/03, A15/SIPSC1
		390		PAGE	PURE, NOTLAST, 04, SIPSC2
00204	40400347	273		VFD	03/PURE, 01/NOTLAST, 05/04, A15/SIPSC2
		391		PAGE	PURE, NOTLAST, 05, SIPSC3
00205	40500350	273		VFD	03/PURE, 01/NOTLAST, 05/05, A15/SIPSC3
		392		PAGE	PURE, LAST, 06, SIPSC4
00206	44600351	273		VFD	03/PURE, 01/LAST, 05/06, A15/SIPSC4

```

396 *
397 * LIBNTAB -- THE LIBRARY NAME TABLE
398 * THE LENGTH OF THE TABLE IS GIVEN BY SYMBOL LIBNTBLN
399 * ENTRIES IN THE TABLE SHOULD BE IN ALPHABETICAL ORDER
400 * THE FORM FOR ENTRIES IN THE TABLE IS :
401 *          BCD      2, NAME
402 *          00      ADDRESS OF BLOCK
403 *
*****

```

```

405
406 MACRO      , LNAME
407 NAME      LIBNAME
408 BCD      2, $LNAME(1)
409 00      $LNAME(2)
410 END

```

00207 P
00210 P

```

LIBNTAB EQU *
LIBNTAB1 EQU LIBNTAB+1

```

00207 21626225
00211 00000004 P

```

LIBNAME ASSEM, ASSEMP
BCD 2, ASSEM
00 ASSEMP

```

00212 22216231
00214 00000013 P

```

LIBNAME BASIC, BASICP
BCD 2, BASIC
00 BASICP

```

00215 23464770
00217 00000021 P

```

LIBNAME COPY, COPYP
BCD 2, COPY
00 COPYP

```

00220 23466270
00222 00000036 P

```

LIBNAME COSY, COSYP
BCD 2, COSY
00 COSYP

```

00223 24216325
00225 00000024 P

```

LIBNAME DATE, DATEP
BCD 2, DATE
00 DATEP

```

00226 24644447
00230 00000027 P

```

LIBNAME DUMP, DUMPP
BCD 2, DUMP
00 DUMPP

```

00231 25243163
00233 00000042 P

```

LIBNAME EDIT, EDITP
BCD 2, EDIT
00 EDITP

```

00234 26465163
00236 00000062 P

```

LIBNAME FORTRAN, FTN3P
BCD 2, FORTRAN
00 FTN3P

```

00237 26634567
00241 00000076 P

```

LIBNAME FTNX, FTNXP
BCD 2, FTNX
00 FTNXP

```

00242 43212225
00244 00000112 P

```

LIBNAME LABEL, LABELP
BCD 2, LABEL
00 LABELP

```

00245 43462124
00247 00000116 P

```

LIBNAME LOAD, LOADP
BCD 2, LOAD
00 LOADP

```

00250 46432426
00252 00000047 P

```

LIBNAME OLDFTN, FORTRANP
BCD 2, OLDFTN
00 FORTRANP

```

00253 46622321
00255 00000142 P
00256 60604721

```

LIBNAME OSCAR, OSCARP
BCD 2, OSCAR
00 OSCARP

```

00260 00000155 P

```

BCD 2, PARA
00 PARAP
LIBNAME RADAR, RADARP
BCD 2, RADAR
00 RADARP

```

00261 51212421
00263 00000160 P
00264 62314762
00266 00000165 P

```

LIBNAME SIPS, SIPSIPSP
BCD 2, SIPS
00 SIPSIPSP

```

00060

```

LIBNTBLN EQU *-LIBNTAB LENGTH OF LIBRARY NAME TABLE

```

```

*****
437 *
438 *
439 *
*****
441
442
443
444 $LAB MACRO LAB,,TRAK
445 VFD BLOCK
446 END 03/2,A21/$TRAK+IMPURE
447
448 BASIC15 BLOCK BSCTRK15
449 BASIC15 VFD 03/2,A21/BSCTRK15+IMPURE
450 BASIC16 BLOCK BSCTRK16
451 BASIC16 VFD 03/2,A21/BSCTRK16+IMPURE
452 BASIC17 BLOCK BSCTRK17
453 BASIC17 VFD 03/2,A21/BSCTRK17+IMPURE
454+001
*****
450+003 *
450+004 * THE FOLLOWING TWO BLOCKS ARE FOR CONTROL MODE.
450+005 * NOTE THAT THE FOLLOWING TWO BLOCKS ARE ALSO IMPURE
450+006 * AS ARE THE RESET IN THIS TABLE.
450+007 *
*****
450+009
00272 20077777 450+010 CMSYS1 VFD 03/2,06/00,A15/CMSTRAK1 CNTLMODE BLOCK 1
00273 20077777 450+011 CMSYS2 VFD 03/2,06/00,A15/CMSTRAK2 CNTLMODE BLOCK 2
450+012
453 COSYC1 BLOCK COSYTR00
454 COSYC1 VFD 03/2,A21/COSYTR00+IMPURE
455 EDITC1 BLOCK EDITTRK1
456 EDITC1 VFD 03/2,A21/EDITTRK1+IMPURE
457 EDITC2 BLOCK EDITTRK2
458 EDITC2 VFD 03/2,A21/EDITTRK2+IMPURE
459 EDITC3 BLOCK EDITTRK3
460 EDITC3 VFD 03/2,A21/EDITTRK3+IMPURE
461 FTN3C07 BLOCK FTN3TR07
462 FTN3C07 VFD 03/2,A21/FTN3TR07+IMPURE
463 FTN3C10 BLOCK FTN3TR10
464 FTN3C10 VFD 03/2,A21/FTN3TR10+IMPURE
465 FTN3C11 BLOCK FTN3TR11
466 FTN3C11 VFD 03/2,A21/FTN3TR11+IMPURE
467 FTN3C12 BLOCK FTN3TR12
468 FTN3C12 VFD 03/2,A21/FTN3TR12+IMPURE
469 FTN3C13 BLOCK FTN3TR13
470 FTN3C13 VFD 03/2,A21/FTN3TR13+IMPURE
471 FTN3C14 BLOCK FTN3TR14
472 FTN3C14 VFD 03/2,A21/FTN3TR14+IMPURE
473 FTN3C15 BLOCK FTN3TR15
474 FTN3C15 VFD 03/2,A21/FTN3TR15+IMPURE
475 FTN3C16 BLOCK FTN3TR16
476 FTN3C16 VFD 03/2,A21/FTN3TR16+IMPURE
477 FTN3C17 BLOCK FTN3TR17
478 FTN3C17 VFD 03/2,A21/FTN3TR17+IMPURE
479 FTNC10 BLOCK FTNTRK10
480 FTNC10 VFD 03/2,A21/FTNTRK10+IMPURE
481 FTNC11 BLOCK FTNTRK11
482 FTNC11 VFD 03/2,A21/FTNTRK11+IMPURE
483 FTNC12 BLOCK FTNTRK12
484 FTNC12 VFD 03/2,A21/FTNTRK12+IMPURE
485 FTNC13 BLOCK FTNTRK13
486 FTNC13 VFD 03/2,A21/FTNTRK13+IMPURE
487 FTNC14 BLOCK FTNTRK14
488 FTNC14 VFD 03/2,A21/FTNTRK14+IMPURE
489 FTNC15 BLOCK FTNTRK15
490 FTNC15 VFD 03/2,A21/FTNTRK15+IMPURE
491 FTNC16 BLOCK FTNTRK16
492 FTNC16 VFD 03/2,A21/FTNTRK16+IMPURE
493 FTNC17 BLOCK FTNTRK17
494 FTNC17 VFD 03/2,A21/FTNTRK17+IMPURE
495 FTNXC07 BLOCK FTNXTR07
496 FTNXC07 VFD 03/2,A21/FTNXTR07+IMPURE
497 FTNXC10 BLOCK FTNXTR10
498 FTNXC10 VFD 03/2,A21/FTNXTR10+IMPURE
499 FTNXC11 BLOCK FTNXTR11
500 FTNXC11 VFD 03/2,A21/FTNXTR11+IMPURE
501 FTNXC12 BLOCK FTNXTR12

```

```

00267 20000344
00270 20000350
00271 20000354
00272 20077777
00273 20077777
00274 20000374
00275 20000360
00276 20000364
00277 20000370
00300 20000530
00301 20000534
00302 20000540
00303 20000544
00304 20000550
00305 20000554
00306 20000560
00307 20000564
00310 20000570
00311 20000414
00312 20000420
00313 20000424
00314 20000430
00315 20000434
00316 20000440
00317 20000444
00320 20000450
00321 20000624
00322 20000630
00323 20000634

```

00324	20000640	444	FTNXC12	VFD	03/2,A21/FTNXTR12+IMPURE
		478	FTNXC13	BLOCK	FTNXTR13
00325	20000644	444	FTNXC13	VFD	03/2,A21/FTNXTR13+IMPURE
		479	FTNXC14	BLOCK	FTNXTR14
00326	20000650	444	FTNXC14	VFD	03/2,A21/FTNXTR14+IMPURE
		480	FTNXC15	BLOCK	FTNXTR15
00327	20000654	444	FTNXC15	VFD	03/2,A21/FTNXTR15+IMPURE
		481	FTNXC16	BLOCK	FTNXTR16
00330	20000660	444	FTNXC16	VFD	03/2,A21/FTNXTR16+IMPURE
		482	FTNXC17	BLOCK	FTNXTR17
00331	20000664	444	FTNXC17	VFD	03/2,A21/FTNXTR17+IMPURE
		483	OSCARC07	BLOCK	OSCTRK07
00332	20000270	444	OSCARC07	VFD	03/2,A21/OSCTRK07+IMPURE
		484	OSCARC10	BLOCK	OSCTRK10
00333	20000274	444	OSCARC10	VFD	03/2,A21/OSCTRK10+IMPURE
		485	OSCARC11	BLOCK	OSCTRK11
00334	20000300	444	OSCARC11	VFD	03/2,A21/OSCTRK11+IMPURE
		486	OSCARC12	BLOCK	OSCTRK12
00335	20000304	444	OSCARC12	VFD	03/2,A21/OSCTRK12+IMPURE
		487	OSCARC13	BLOCK	OSCTRK13
00336	20000310	444	OSCARC13	VFD	03/2,A21/OSCTRK13+IMPURE
		488	OSCARC14	BLOCK	OSCTRK14
00337	20000314	444	OSCARC14	VFD	03/2,A21/OSCTRK14+IMPURE
		489	OSCARC15	BLOCK	OSCTRK15
00340	20000320	444	OSCARC15	VFD	03/2,A21/OSCTRK15+IMPURE
		490	OSCARC16	BLOCK	OSCTRK16
00341	20000324	444	OSCARC16	VFD	03/2,A21/OSCTRK16+IMPURE
		491	OSCARC17	BLOCK	OSCTRK17
00342	20000330	444	OSCARC17	VFD	03/2,A21/OSCTRK17+IMPURE
		492	RADARC1	BLOCK	RDRTRAK1
00343	20000240	444	RADARC1	VFD	03/2,A21/RDRTRAK1+IMPURE
		493	RADARC2	BLOCK	RDRTRAK2
00344	20000244	444	RADARC2	VFD	03/2,A21/RDRTRAK2+IMPURE
		494	UTILC	BLOCK	UTILTRAK
00345	20000670	444	UTILC	VFD	03/2,A21/UTILTRAK+IMPURE
		495	SIPSC1	BLOCK	SIPSTR1
00346	20000704	444	SIPSC1	VFD	03/2,A21/SIPSTR1+IMPURE
		496	SIPSC2	BLOCK	SIPSTR2
00347	20000710	444	SIPSC2	VFD	03/2,A21/SIPSTR2+IMPURE
		497	SIPSC3	BLOCK	SIPSTR3
00350	20000714	444	SIPSC3	VFD	03/2,A21/SIPSTR3+IMPURE
		498	SIPSC4	BLOCK	SIPSTR4
00351	20000720	444	SIPSC4	VFD	03/2,A21/SIPSTR4+IMPURE

```

501 *
502 * LIBMOVE -- ROUTINE TO MOVE A LIBRARY PROGRAM INTO THE
503 * USERS VIRTUAL MEMORY MAP
504 * THIS FEAT IS ACCOMPLISHED BY CALLING A ROUTINE (MEMSET) TO
505 * ADJUST THE VIRTUAL MEMORY MAP AS WELL AS THE PAGE FILE
506 * ON ENTRY A MUST CONTAIN THE POINTER TO THE ENTRY IN LIBTAB
507 * ENTER WITH A RTJ TO LIBMCVE
508 * ROUTINE CLOBBERS ALL REGISTERS EXCEPT THE PSA INDEX
509 * ON EXIT THE PSA POINTER IS IN THE PSA INDEX
510 *
*****

```

```

512
00352 77730000 513 LIBMOV01 VFD A12/DINT
00353 14477777 X 514 ENA,S NDELAY REMOVE DELAY
00354 00777777 X 515 RTJ IOCLEAR
00355 20377777 X 515+001 LDA SYSCODE,X3+PSA
00356 12000003 515+002 SHA 23-20
00357 03200363 P 515+003 AZJ,GE LIBMOVE JUMP IF NOT PHANTOM
00360 14600040 520 ENA 40B PROGRAM STATE AND DINT
00361 77660000 520+001 AOS ALLOW PHANTOM TO LOOK AT THE MONI
00362 44377777 X 521 SWA CR,X3+PSA
00363 01000000 522 LIBMOVE UJP IMPURE
00364 53500000 523 TAI 1 POINTER TO INDEX 1
00365 20100000 524 LDA 0,X1 GET THE PC FROM THE TABLE
00366 44377777 X 525 SWA PC,X3+PSA STORE THE FIRST GOODIES
00367 21300362 X 526 LDQ CR,X3+PSA LOAD THE CURRENT CR
00370 12477771 527 SHQ -6 SHIFT THE NEW CR AND MEMORY
00371 13000007 528 SHAQ 7 PROTECTION BITS
00372 12400027 529 SHQ 23 INTO POSITION
00373 41300367 X 530 STQ CR,X3+PSA AND STORE IT BACK
00374 37377777 X 531 LPA SYSCM,X3+PSA CHECK FOR LEAVING CONTROL MODE
00375 03200377 P 532 AZJ,GE *+2 JUMP IF NOT CM EXIT
00376 00777777 X 533 RTJ CMEXIT EXIT FROM CONTROL MODE
00377 20100001 534 LDA 1,X1 GET THE INTERNAL STATUS WORD
00400 40377777 X 535 STA IS,X3+PSA SET USERS INTERNAL STATUS
00401 77660000 536 AOS ADJUST THE OPERAND STATE
00402 12077774 537 SHA -3 ISR TO LOW 3 BITS
00403 77664000 538 AIS ADJUST THE INSTRUCTION STATE
539
00404 21100002 540 LIBMOV02 LDQ 2,X1 GET PAGE WORD FROM TABLE
00405 27000437 P 541 LDL PAGEMASK EXTRACT THE PAGE
00406 12077760 542 SHA -15
00407 53600000 543 TAI 2 PUT IN INDEX 2 FOR MEMSET
00410 27077777 X 544 LDL LIBMASK GET GOODIES TO A
00411 13000030 545 SHAQ 24
00412 14600414 P 546 ENA *+2 RETURN ADDRESS
00413 01077777 X 547 UJP MEMSET
00414 20100002 548 LDA 2,X1 GET PAGE WORD AND
00415 12000003 549 SHA 3 LAST ONE BIT TO POST
00416 03300352 P 550 AZJ,LT LIBMOV01 EXIT IF NEGATIVE
00417 02100404 P 551 IJI LIBMOV02,X1 LOOP BACK

```

```

554 *
555 * LIBCALL -- PROCESS A LIBRARY CALL REQUEST *
556 * ROUTINE WILL ENTER REQUESTED ROUTINE IF FOUND *
557 * WILL EXIT BACK TO THE CALLER IF NAME NOT IN TABLE *
558 *
*****

```

```

00420 14100060 560 LIBCALL ENI LIBNTBLN,X1 ENTER THE LENGTH OF THE TABLE
00421 14577777 561 LIBSCH02 ENQ,S 77777B MASK FOR MEQ
00422 20377777 X 562 LDA A,X3+PSA GET UPPER 4 CHARACTERS
00423 06300207 P 563 MEQ LIBNTAB,3 SEARCH FOR THE NAME
00424 01077777 X 564 UJP XREQEND RETURN TO USER IF NOT FOUND
00425 25100210 P 565 LDAQ LIBNTAB1,X1 GET SECOND WORD
00426 31377777 X 566 SBA Q,X3+PSA CHECK FOR MATCH ON SECOND 4 CHARS
00427 03100421 P 567 AZJ,NE LIBSCH02 SEARCH SOME MORE
00430 20077777 X 568 LDA EXECINST GET THE XREQ
00431 04600001 569+001 ASE 1 SKIP IF NOT TO DO LIBCALL
00432 01000434 P 571 UJP *+2
00433 01077777 X 572 UJP ERROR01 SAY WE FOUND IN TABLE.
00434 13000030 573 SHAQ 24 POINTER WORD TO A
00435 00700363 P 574 RTJ LIBMOVE CHANGE THE USERS VMM
00436 01077777 X 575 UJP RETURN
576
00437 03700000 577 PAGEMASK OCT 03700000
578
579 END

```

NO LINES WITH ERRORS

FTNC12	00313P	444	273	00054P											
FTNC13	00314P	444	273	00055P											
FTNC14	00315P	444	273	00056P											
FTNC15	00316P	444	273	00057P											
FTNC16	00317P	444	273	00060P											
FTNC17	00320P	444	273	00061P											
FTNTRAK	00410	111	273	00051P											
FTNTRK10	00414	111	444	00311P											
FTNTRK11	00420	111	444	00312P											
FTNTRK12	00424	111	444	00313P											
FTNTRK13	00430	111	444	00314P											
FTNTRK14	00434	111	444	00315P											
FTNTRK15	00440	111	444	00316P											
FTNTRK16	00444	111	444	00317P											
FTNTRK17	00450	111	444	00320P											
FTNXC07	00321P	444	273	00101P											
FTNXC10	00322P	444	273	00102P											
FTNXC11	00323P	444	273	00103P											
FTNXC12	00324P	444	273	00104P											
FTNXC13	00325P	444	273	00105P											
FTNXC14	00326P	444	273	00106P											
FTNXC15	00327P	444	273	00107P											
FTNXC16	00330P	444	273	00110P											
FTNXC17	00331P	444	273	00111P											
FTNXP	00076P	255	409	00241P											
FTNXTR00	00620	111	273	00100P											
FTNXTR07	00624	111	444	00321P											
FTNXTR10	00630	111	444	00322P											
FTNXTR11	00634	111	444	00323P											
FTNXTR12	00640	111	444	00324P											
FTNXTR13	00644	111	444	00325P											
FTNXTR14	00650	111	444	00326P											
FTNXTR15	00654	111	444	00327P											
FTNXTR16	00660	111	444	00330P											
FTNXTR17	00664	111	444	00331P											
IMPURE	00000	50	224	00000P	225	00001P	226	00002P	227	00003P	444	00267P	444	00270P	
			444	00271P	444	00274P	444	00275P	444	00276P	444	00277P	444	00300P	
			444	00301P	444	00302P	444	00303P	444	00304P	444	00305P	444	00306P	
			444	00307P	444	00310P	444	00311P	444	00312P	444	00313P	444	00314P	
			444	00315P	444	00316P	444	00317P	444	00320P	444	00321P	444	00322P	
			444	00323P	444	00324P	444	00325P	444	00326P	444	00327P	444	00330P	
			444	00331P	444	00332P	444	00333P	444	00334P	444	00335P	444	00336P	
			444	00337P	444	00340P	444	00341P	444	00342P	444	00343P	444	00344P	
			444	00345P	444	00346P	444	00347P	444	00350P	444	00351P	522	00363P	
			515	00354P											
IOCLEAR	X	22	535	00400P											
IS	X	23	255	00112P											
LABEL		00004	409	00244P											
LABELP		00112P	255	00112P											
LAST		00001	267	273	00012P	273	00020P	273	00035P	273	00041P	273	00046P	273	00061P
				273	00075P	273	00111P	273	00115P	273	00141P	273	00154P	273	00157P
				273	00184P	273	00206P								
LDR2TRAK		00504	111	273	00141P										
LIBCALL	E	00420P	561	10	00000P										
LIBMASK	X		24	544	00410P										
LIBMOV01		00352P	513	550	00416P										
LIBMOV02		00404P	540	551	00417P										
LIBMOVE	E	00363P	522	11	00000P	515+3	00357P	574	00435P						
LIBNTA3		00207P	413	414	00207P	434	00267P	564	00423P						
LIBNTAB1		00210P	414	566	00425P										
LIBNTBLN		00060	434	561	00420P										
LIBSCH02		00421P	562	568	00427P										
LOADER		00000	73	255	00116P										
LOADP		00116P	255	409	00247P										
LOADTRAK		00500	111	273	00140P										
LRISD		00067	51	256	00005P	256	00014P	256	00037P	256	00050P	256	00063P	256	00077P
				256	00143P	256	00166P								
MEMSET	X		25	547	00413P										
NCMODE		00001	56	255	00004P	255	00013P	255	00021P	255	00024P	255	00027P	255	00036P
				255	00042P	255	00047P	255	00062P	255	00076P	255	00112P	255	00116P
				255	00142P	255	00155P	255	00160P	255	00165P				
NDELAY	X		26	514	00353P										
NOPROTEC		00000	57	255	00004P	255	00021P	255	00024P	255	00027P	255	00032P	255	00036P
				255	00042P	255	00047P	255	00112P	255	00116P	255	00155P	255	00160P
				255	00165P										
NOTLAST		00000	266	273	00006P	273	00007P	273	00010P	273	00011P	273	00015P	273	00016P
				273	00017P	273	00034P	273	00040P	273	00044P	273	00045P	273	00051P
				273	00052P	273	00053P	273	00054P	273	00055P	273	00056P	273	00057P
				273	00060P	273	00064P	273	00065P	273	00066P	273	00067P	273	00070P
				273	00071P	273	00072P	273	00073P	273	00074P	273	00100P	273	00101P

