

ADDRESS LENGTH

0 1447
1447

BINARY CONTROL CARDS.

IDENT ISUBP
END

BLOCKS	TYPE	ADDRESS	LENGTH
ABSOLUTE*	ABSOLUTE	0	40
PROGRAM*	LOCAL	0	1255
LITERALS*	LOCAL	1255	1
CHARS	LOCAL	1256	33
PARAS	LOCAL	1311	136

ENTRY POINTS.

REGSAVE	-	0	ERR	-	1135	UNIQNM	-	362	TOPEP	-	610
TEMP	-	24	ERRJP	-	1156	SLVNM	-	363	TESTN	-	1124
PACK	-	412	XPACK	-	334	RETLINK	-	361			
TYPEOUT	-	543	BLAB	-	364	GOCODE	-	360			
START	-	1034	MASK	-	1163	CVTOUT	-	554			

EXTERNAL SYMBOLS.

TEST1 FL

IDENT
ENTRY
ENTRY
ENTRY

ISUBP
REGSAVE,TEMP,PACK,TYPEOUT,START,ERR,ERRUP
XPACK,BLAB
MASK,UNIQNM,SLVNM,RETLINK,GOCODE

* GET NECESSARY XTEXT FILES

0

TMACROS XTEXT

0

	OPNAMES	LIST	X		OPNAMES	
0	C.SELF	EQU	0	CAPABILITY FOR THIS C LIST	OPNAMES	1
1	C.ALLOC	EQU	1	ALLOCATION BLOCK C LIST INDEX	OPNAMES	1
2	C.INTFIL	EQU	2		OPNAMES	1
3	C.RFILE	EQU	2+1	READ ON FILE	OPNAMES	1
4	C.WFILE	EQU	3+1	WRITE ON FILE	OPNAMES	1
5	C.SENDE	EQU	4+1	SEND EVENT	OPNAMES	1
6	C.GETE	EQU	5+1	GET EVENT OR HANG	OPNAMES	1
7	C.CCLIST	EQU	6+1	CREATE C LIST OPERATION	OPNAMES	1
10	C.CFILE	EQU	7+1	CREATE FILE	OPNAMES	1
11	C.CBLK	EQU	8+1	CREATE FILE BLOCK	OPNAMES	1
12	C.CPROC	EQU	9+1	CREATE PROCESS	OPNAMES	1
13	C.CEVCH	EQU	10+1	CREATE EVENT CHANNEL	OPNAMES	1
14	C.CSPROC	EQU	11+1	CREATE SUB PROCESS	OPNAMES	1
15	C.CCC	EQU	12+1	CREATE CLASS CODE	OPNAMES	1
16	C.SAVE	EQU	13+1	SAVE REGISTERS	OPNAMES	1
17	C.RESTOR	EQU	14+1	RESTORE REGISTERS	OPNAMES	1
20	C.DSCAP	EQU	16	.. DISPLAY A CAPABILITY	OPNAMES	1
20	C.DSPCAP	EQU	C.DSCAP	.. OLD NAME FOR C.DSCAP	OPNAMES	1
21	C.FSON	EQU	16+1		OPNAMES	1
22	C.MOVEC	EQU	18	.. MOVE A CAPABILITY WITHIN FULL CLIST	OPNAMES	1
22	C.MVECAP	EQU	C.MOVEC	.. OLD NAME FOR C.MOVEC	OPNAMES	1
23	C.CAPIN	EQU	18+1		OPNAMES	1
24	C.CAPOU	EQU	20	.. COPY A CAPABILITY OUT OF FULL CLIST	OPNAMES	1
24	C.CAPOUT	EQU	C.CAPOU	.. OLD NAME FOR C.CAPOU	OPNAMES	1
25	C.ESMGEN	EQU	21	SET ANY ESM IN PROCESS	OPNAMES	1
26	C.ESMLOC	EQU	22	SET LOCAL ESM	OPNAMES	1
27	C.MKOPR	EQU	23	CREATE OPERATION(SUBP CALL)	OPNAMES	1
30	C.RETURN	EQU	24	SUBPROCESS RETURN	OPNAMES	1
31	C.FRETUR	EQU	25	F-RETURN	OPNAMES	1
32	C.FIXC	EQU	26	FIX CAPABILITY PS	OPNAMES	1
33	C.FIXD	EQU	27	FIX DATUM PS	OPNAMES	1
34	C.UDAT	EQU	28	CHANGE ANY PS TO USER DATUM	OPNAMES	1
35	C.UCAP	EQU	29	CHANGE ANY PS TO USER CAPABILITY	OPNAMES	1
36	C.ACAP	EQU	30	CHANGE ANY PS TO ANY CAPABILITY	OPNAMES	1
37	C.ADDOPT	EQU	31	ADD OPTION BITS TO PS	OPNAMES	1
40	C.COPYOP	EQU	32	• MAKE A COPY OF AN OPERATION	OPNAMES	1
41	C.CHKBLK	EQU	33	• CHECK FOR MISSING FILE BLOCKS	OPNAMES	1
42	C.DELBLK	EQU	34	• DELETE A FILE BLOCK	OPNAMES	1
43	C.DELFIL	EQU	35	• DELETE A FILE	OPNAMES	1
44	C.REDSHP	EQU	36	• GET SHAPE NUMBERS OF A FILE	OPNAMES	1
45	C.MAPZRO	EQU	37	• ZERO A MAP ENTRY	OPNAMES	1
46	C.MPCHRO	EQU	38	• CHANGE A ZERO MAP ENTRY TO READ ONLY	OPNAMES	1
47	C.MPCHRW	EQU	39	• CHANGE A ZERO MAP ENTRY TO RW	OPNAMES	1
50	C.MOVBLK	EQU	40	• MOVE A FILE BLOCK	OPNAMES	1
51	C.DTSMAP	EQU	41		OPNAMES	1
52	C.JUMP	EQU	42		OPNAMES	1
53	C.NEWUN	EQU	43	• CHANGE UNIQUE NAME	OPNAMES	1
54	C.DISPST	EQU	44	• DISPLAY ENTIRE STACK	OPNAMES	1
55	C.DISSEN	EQU	45	• DISPLAY STACK ENTRY	OPNAMES	1
56	C.DSFMAP	EQU	46	DISPLAY FULL MAP ENTRY	OPNAMES	1
57	C.DELCL	EQU	47	DELETE C-LIST	OPNAMES	1

60	C.PINT	EQU	48	SEND PROCESS INTERRUPT	OPNAMES	1
61	C.ADDORD	EQU	49	• ADD AN ORDER TO AN OPERATION	OPNAMES	1
62	C.CCCLDA	EQU	50	CREATE COMPLETE CAPABILITY	OPNAMES	1
63	C.DONATE	EQU	51	TRANSFER BETWEEN ALLOC BKS	OPNAMES	1
64	C.CRALBK	EQU	52	• CREATE ALLOC BLOCK	OPNAMES	1
65	C.MODPC	EQU	53	• MODIFY P-COUNTER	OPNAMES	1
66	C.DLPROC	EQU	54	• DESTROY A PROCESS	OPNAMES	1
67	C.DPROD	EQU	55	• DISPLAY A PROCESS	OPNAMES	1
67	C.CHNGWD	EQU	C.DPROD	••• NOW DEFUNCT OPERATION. SYMBOL DEFINITION	OPNAMES	1
	*				OPNAMES	1
	*			KEPT AROUND TO AVOID ASSEMBLY PROBLEMS	OPNAMES	1
				SHOULD EVENTUALLY BE DELETED.	OPNAMES	1
70	C.CLRDAE	EQU	56	• CLEAR THE DIRECT ACCESS ECS ENTRY	OPNAMES	1
71	C.SETDAE	EQU	57	• SET THE DIRECT ACCESS ECS ENTRY	OPNAMES	1
72	C.DELSUB	EQU	58	DELETE SUP PROC	OPNAMES	1
73	C.SETIIB	EQU	55+4	• SET INTERRUPT INHIBIT BIT	OPNAMES	1
74	C.CLRIB	EQU	56+4	• CLEAR INTERRUPT-INHIBIT BIT	OPNAMES	1
75	C.GETEVF	EQU	57+4	• GET EVENT OR RETURN	OPNAMES	1
76	C.DELAB	EQU	62	• DESTROY ALLOCATION BLOCK	OPNAMES	1
77	C.MGETH	EQU	63	GET EVENT FROM MULTIPLE CHANNELS OR	OPNAMES	1
	*				OPNAMES	1
100	C.MGETF	EQU	64	GET EVENT FROM MULTIPLE CHANNELS OR	OPNAMES	1
	*				OPNAMES	1
101	C.DESECH	EQU	65	DESTROY EVENT CHANNEL	OPNAMES	1
102	C.DSPCLX	EQU	66	DISPLAY CLOCKS IN USER CORE	OPNAMES	1
3	C.READ	EQU	C.RFILE		OPNAMES	1
4	C.WRITE	EQU	C.WFILE		OPNAMES	1
6	C.HANG	EQU	C.GETE		OPNAMES	1
41	C.PROBE	EQU	C.CHKBLK		OPNAMES	1
103	C.NWTMP	EQU	67	SET TEMPORARY PART OF CLASS CODE	OPNAMES	1
104	C.DSPAB	EQU	68	DISPLAY ALLOCATION BLOCK	OPNAMES	1
105	C.BDAT	EQU	69	• CHANGE ANY TO BLOCK DATA PARAMETER	OPNAMES	1
106	C.BLKCAP	EQU	70	• CHANGE ANY TO BLOCK CAPABILITY PARAM	OPNAMES	1
107	C.DISPOP	EQU	71	• DISPLAY OPERATION	OPNAMES	1
110	C.USRR	EQU	72	• USER INITIATED ERROR	OPNAMES	1
111	C.RETPAR	EQU	73	• RETURN WITH PARAMETERS	OPNAMES	1
112	C.TIMDT	EQU	74	• RETURN DATE AND TIME	OPNAMES	1
113	C.CAGEN	EQU	75	• MAKE CAPABILITY CREATING AUTHORIZATION	OPNAMES	1
114	C.CGEN	EQU	76	• MAKE CAPABILITY OF AUTHORIZED TYPE	OPNAMES	1
115	C.DSPSP	EQU	77	• DISPLAY SUBPROCESS DESCRIPTOR	OPNAMES	1
116	C.TRDB	EQU	78	• TEST AND RESET DIRTY BIT	OPNAMES	1
117	C.INCHR	EQU	79	• INCREMENT AB CHARGE RATE	OPNAMES	1
120	C.DSPOB	EQU	80	• DISPLAY OBJECT	OPNAMES	1
121	C.DSPALC	EQU	81	• DISPLAY ALLOCATOR CONSTANTS	OPNAMES	1
122	C.CHMPRW	EQU	82	• CHANGE A READ-WRITE MAP ENTRY	OPNAMES	1
123	C.CHMPRO	EQU	83	• CHANGE A READ ONLY MAP ENTRY	OPNAMES	1
47	C.MKMPRW	EQU	C.MPCHRW	• MORE REASONABLE NAME FOR C.MPCHRW	OPNAMES	1
46	C.MKMPRO	EQU	C.MPCHRO	• MORE REASONABLE NAME FOR C.MPCHRO	OPNAMES	1
124	C.DSCLX	EQU	84	• DISPLAY SYSTEM CLOCKS IN USER CORE	OPNAMES	1
125	C.SPRET	EQU	85	•• SPECIAL RETURN (DECREMENT P-COUNTER)	OPNAMES	1
126	C.CPZRO	EQU	86	•• ZERO A CAPABILITY	OPNAMES	1
127	C.MOVCP	EQU	87	• TRANSFER CP TIME BETWEEN ABS	OPNAMES	1
130	C.MOVM	EQU	88	• TRANSFER MOT SLOTS BETWEEN ABS	OPNAMES	1

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131	C.INMTR	EQU	89	. INCREMENT AB CHARGE METER	OPNAMES	1
132	C.DLOPR	EQU	90	. DESTROY AN OPERATION	OPNAMES	1
133	C.GRAB	EQU	91	. STEAL ECS SPACE	OPNAMES	1
	CLIST	XTEXT				
310	SCLIST	EQU	200	SIZE OF LOCAL CLIST	CLIST	1
144	NUMCAPS	EQU	100	NUMBER OF CAPS IN IPROCCS CLIST	CLIST	1
144	CEND	SET	NUMCAPS	FIRST UNOCCUPIED SLOT IN LOCAL CLIST	CLIST	1
	NEWCAP	K.SCRCH		SCRATCH FILE	CLIST	1
	NEWCAP	K.MALLOC		MASTER ALLOCATION BLOCK	CLIST	1
	NEWCAP	K.BEAD		BEAD CALL	CLIST	1
	NEWCAP	K.LCLIST		LOCAL CLIST	CLIST	1
	NEWCAP	K.SELF		THIS CLASS CODE	CLIST	1
	NEWCAP	K.FILE		FILE CONTAINING THIS CODE	CLIST	1
	NEWCAP	K.CAPIN		COPY CAP FROM ARBITRARY CLIST	CLIST	1
	NEWCAP	K.IPROCC		IPROCS CLIST	CLIST	1
	NEWCAP	K.TEVCH1			CLIST	1
	NEWCAP	K.FALLOC			CLIST	1
	NEWCAP	K.GALLOC			CLIST	1
	NEWCAP	K.COMSLV			CLIST	1
	NEWCAP	K.SLVSP			CLIST	1
	NEWCAP	K.SLAVE			CLIST	1
	NEWCAP	K.TEVCH2			CLIST	1
	NEWCAP	K.TEVCH3			CLIST	1
	NEWCAP	K.CLIST			CLIST	1
	NEWCAP	K.SUBP			CLIST	1
	NEWCAP	K.SPCLST			CLIST	1
	NEWCAP	K.CSELF			CLIST	1
	NEWCAP	K.CSUBP			CLIST	1
	NEWCAP	K.CLSCD			CLIST	1
	NEWCAP	K.CLSCD2			CLIST	1
	NEWCAP	K.SUBPA			CLIST	1
	NEWCAP	K.SUBPB			CLIST	1
	NEWCAP	K.SUBPC			CLIST	1
	NEWCAP	K.SUBPD			CLIST	1
	NEWCAP	K.CLSTA			CLIST	1
	NEWCAP	K.CLSTB			CLIST	1
	NEWCAP	K.CLSTC			CLIST	1
	NEWCAP	K.CLSTD			CLIST	1
	NEWCAP	K.CALLA			CLIST	1
	NEWCAP	K.CALLB			CLIST	1
	NEWCAP	K.CALLC			CLIST	1
	NEWCAP	K.CALLD			CLIST	1
	NEWCAP	K.CALLA2			CLIST	1
	NEWCAP	K.SCRCAP			CLIST	1
	NEWCAP	K.CPMK1			CLIST	1
	NEWCAP	K.CPMK2			CLIST	1
	NEWCAP	K.FILE1			CLIST	1
	NEWCAP	K.FILE2			CLIST	1
	NEWCAP	K.CLIST1			CLIST	1
	NEWCAP	K.PROC1			CLIST	1
	NEWCAP	K.SUBP1			CLIST	1
	NEWCAP	K.FILE3			CLIST	1
	NEWCAP	K.OPER1			CLIST	1

ISUBP - INTERFACE TWIXT BEAD AND ECS TEST
OPERATION NAMES

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NEWCAP
LIST

K.HALLO
-X

CLIST 1

*
* SETUP SUBPROCESS DESCRIPTOR FOR THE BEAD
*

0		HEADER1	TECS,CLASS,6,100	
6	000000000000000001274 X	HEADER2	=XFL*700,START,SCLIST,START	
12	000000000000000000000	MAP	,0,0,START,0	
20	240503230000000000000	MAP	TECS,VV,START,START,=XFL,1	
26	777777777777777777777	DATA	=0	
27	230514060000000000000	CAP	SELF,OPERATE	
31	240503230000000000000	CAP	TECS,VV	
33	030120111600000000000	CAP	CAPIN,OPERATE	
35	152605030120000000000	CAP	MVECAP,OPERATE	
37	000000000000000000000	DATA	0	
0		USE	*	
24		REGSAVE BSSZ	20	
		TEMP BSSZ	200	
334		XPACK BSSZ	20	
360	0200001135 *	GOCODE JP	ERR	USED TO DIRECT SUBPROCESS CALLS
361	0200001135 *	RETLINK JP	ERR	USED TO HOLD SUBROUTINE RETURN LINKS
362		UNIQNM BSS	1	UNIQUE NAME OF THIS PROCESS
363		SLVNM BSS	1	UNIQUE NAME OF SLAVE PROCESS
364	000000000000000000001	BLAB VFD	40/1	VERBOSE FLAG - TALKS A LOT WHEN NON=0
		LIST	6*X	
365	000000000000000000367 *	OUTPOINT VFD	40/OUTBUF	
366	000000000000000000001	OUTCNT VFD	40/1	
367	473200000000000000000	OUTBUF VFD	4/11B,7/155B,49/0	
370		BSSZ	15	
407		SVB7 BSSZ	1	
410		CB5 BSSZ	1	
411		CB7 BSSZ	1	

	612277776		SB2	B2-1
433	0550000424 *		NE	B5,B0,PACK3
	6150000012		SB5	10
434	6111000001		SB1	B1-1
	56110		SA1	B1
435	0200000424 *		JP	PACK3
		*		
436	76660	PACK5	SX6	B6
	5160000366 *		SA6	OUTCNT
437	7130000155		SX3	155B (CR)
		*		
440	20207	PACK6	LX2	7
	12223		BX2	X2+X3
	614477776		SB4	B4-1
441	76300		SX3	B0
	0540000440 *		NE	B4,B0,PACK6
	10622		BX6	X2
442	56630		SA6	B3
	0270000000		JP	B7

*
*
*

OUTPUT TRANSLATION TABLE

443	00000000000000000000	OUTTRANS DATA	00B,41B,42B,43B,44B,45B,46B,47B
444	00000000000000000001		
445	00000000000000000002		
446	00000000000000000003		
447	00000000000000000004		
450	00000000000000000005		
451	00000000000000000006		
452	00000000000000000007		
453	000000000000000000050	DATA	50B,51B,52B,53B,54B,55B,56B,57B
454	000000000000000000051		
455	000000000000000000052		
456	000000000000000000053		
457	000000000000000000054		
460	000000000000000000055		
461	000000000000000000056		
462	000000000000000000057		
463	000000000000000000060	DATA	60B,61B,62B,63B,64B,65B,66B,67B
464	000000000000000000061		
465	000000000000000000062		
466	000000000000000000063		
467	000000000000000000064		
470	000000000000000000065		
471	000000000000000000066		
472	000000000000000000067		
473	000000000000000000070	DATA	70B,71B,72B,20B,21B,22B,23B,24B
474	000000000000000000071		
475	000000000000000000072		
476	000000000000000000020		
477	000000000000000000021		
500	000000000000000000022		
501	000000000000000000023		
502	000000000000000000024		
503	000000000000000000025	DATA	25B,26B,27B,30B,31B,13B,15B,12B
504	000000000000000000026		
505	000000000000000000027		
506	000000000000000000030		
507	000000000000000000031		
510	000000000000000000013		
511	000000000000000000015		
512	000000000000000000012		
513	000000000000000000017	DATA	17B,10B,11B,04B,35B,00B,14B,16B
514	000000000000000000010		
515	000000000000000000011		
516	000000000000000000004		
517	000000000000000000035		
520	000000000000000000000		
521	000000000000000000014		
522	000000000000000000016		
523	000000000000000000003	DATA	03B,73B,75B,32B,07B,77B,01B,06B
524	000000000000000000073		

525 000000000000000000075
526 000000000000000000032
527 000000000000000000007
530 000000000000000000077
531 000000000000000000001
532 000000000000000000006
533 000000000000000000076
534 000000000000000000002
535 000000000000000000034
536 000000000000000000036
537 000000000000000000040
540 000000000000000000037
541 000000000000000000076
542 000000000000000000033

DATA

76B,02B,34B,36B,40B,37B,76B,33B

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*
*
*
543 76670          TYPEOUT  SX6      SENDS A LINE TO TTY
                                B7
                                SVB7
544 6110000365 +    SA6      OUTPOINT
                                SB1
                                BEAD
545 0130001171 +    VFD      12/0130B.18/CALL BEAD.30/0
                                0000000000
546 5110000407 +    SA1      SVB7
                                SB7
547 7160000001 63710  SX6      X1
                                SA6
550 7160000011 5160000366 + SA6      OUTCNT
                                SX6      11B      INDICATE FIRST OF LINE
                                LX6      Z
551 7160000155 20607  SX6      155B      INSTALL A CARRIAGE RETURN
                                LX6      7*7      POSITION IT
552 5110000365 +    SA1      OUTPOINT
                                SA6
553 0270000000 53610  JP      X1      STORE IT
                                B7

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XJ

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ISUBP - INTERFACE TWIXT BEAD AND ECS TEST
SUBPROCESS DESCRIPTOR * LOW CORE

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		ENTRY	CVTOUT
			B1 = WHERE THE WORDS START B2 = WORD COUNT B7 = RETURN LINK
554	66532	CVTOUT	SB5
	0420000602 +	EQ	B3+B2
	43271	MX2	B2,B0,NUMDON
555	7130000020	SX3	NOTING TO DO
556	57152	LOOP3	20B
	7170000011	SA1	SET UP FIRST SORD OF TEXT LINE
557	6140000002	SX7	B5=B2
560	6130000010	SB4	PICK UP FIRST WORD
	0704000562 +	SB3	11B
561	6130000004	GT	INITIAL WORD OF STRING
562	20707	LX7	2
	20103	SB3	OUTPUT WORDS PER WORD
	15412	SB3	8
	12443	LX1	CHARS PER WORD
563	12774	BX4	B4,B0,SKP
	6133777776	BX4	SPECIAL COUNT ON LAST WORD
564	0530000562 +	BX7	(ONLY FOUR CHARS LEFT)
	0440000570 +	SB3	MAKE ROOM FOR NEXT CHAR
565	6130000607 +	SA7	3
	57734	SX7	NEXT CHAR TO LOW BITS
566	6144777776	JP	-X2*X1
	7170000000	JP	ISOLATE CHAR
567	0200000560 +	LX7	X4+X3
570	20707	SX6	INSERT OFFSET
	7160000155	BX7	X7+X4
571	20725	LX7	ADD CHAR TO STRING
	5170000607 +	SA7	B3-1
572	6110000603 +	SB1	B3,B0,SKP
573	0130001164 +	CALL	B4,B0,LAST
	0000000001	VFD	SPECIAL AFTER LAST CHAR
574	0400001135 +	EQ	W3ORDS+2
	0000000000	EQ	STORE WORD
575	6160000005	BEAD	B3-B4
576	0130001171 +	VFD	B4-1
	0000000000	CALL	0
577	0130001166 +	CALL	LOOP4
	0000000001	VFD	7
600	0400001135 +	EQ	INSERT END CHAR
	0000000000	EQ	155B
601	6122777776	SB2	X7+X6
	0520000556 +	NZ	21
602	0270000000	JP	POSITION IN HIGH BITS
603	000000000000000000605 +	VFD	W3ORDS+2
604	000000000000000000144	VFD	STORE FINAL WORD
605		W3ORDS	SDESC
		LIST	OUTPUT THE STRING
			SAVEREG,ERR
			12/0130B,18/SAVEREG,30/1
			ERR
			30/
			12/0130B,18/CALLBEAD,30/0
			CALL
			CALL
			CALL
			XJ
			2
			RESTREG,ERR
			12/0130B,18/RESTREG,30/1
			ERR
			30/
			B2-1
			B2,LOOP3
			B7
			60/W3ORDS,60/100
			3
			-G,-X

			ENTRY	TOPER	
610	76650	5160000410 +	SX6	B5	. SAVE B5,B7
		76670	SA6	CB5	
			SX6	B7	
611	5160000411	5110000773 +	SA6	CB7	
			SA1	ERJP	
612	10611	5160001033 +	BX6	X1	
			SA6	START-1	. SET UP TO FIELD ERROR CALLS HERE
613	0130777771	10000000003	VFD	12/0130B,18/-6,30/NORM-FRET	
614	5120000411	63720	SA2	CB7	. RESTORE RETURN POINTER
			SB7	X2	
615	5127777775	7222777775	SA2	B7-2	. SEE IF F_RETURN WAS CALLED FOR
			SX2	X2-2	
616	0312000673	0400000622 +	NZ	X2,MES2	. NO
			EQ	CHKR	. YES: GO CHECK REGISTERS
617	5120000411	63720	SA2	CB7	. RESTORE RETURN POINTER
			SB7	X2	
620	5127777775	7222777776	SA2	B7-2	. SEE IF NORMAL RETURN EXPECTED
			SX2	X2-1	
621	0312000653	69520	NZ	X2,MES1	. NO
622	5120000410	43400	SA2	CB5	. RESTORE INDICATOR FOR REG CHECKS
			SB5	X2	
623	0450000634	43400	EQ	B5,B0,AOK	. NO CHECKING TO DO
			MX4	0	. SET UP FLAG
624	6155777776	0450000627 +	SB5	B5-1	
			EQ	B5,B0,CHK6	. ONLY CHECK X6
625	5127777774	13427	SA2	B7-3	. WE MUST AT LEAST CHECK X7
			BX4	X2-X7	
626	6155777776	0450000633 +	SB5	B5-1	
			EQ	B5,B0,NOMOR	. BUT NOT X6
627	5127777773	0342000632 +	SA2	B7-4	
			IR	X2,NORM6	
630	0332000632	53120	NG	X2,NORM6	
		21222	SA1	X2	. SIGH: THE X6 WORD MUST BE
			AX2	18	. CONSTRUCTED AT RUN TIME
631	63620	27261	SB6	X2	. TO INCLUDE THE PROCESS UNIQUE NAME
			PX2	B6,X1	. FOR EVENT CHANNEL TESTS
632	13226	12442	BX2	X2-X6	
			BX4	X4-X2	
633	0314000733	0334000733 +	NZ	X4,MES4	. WRONG VALUES
			NG	X4,MES4	
634	5110000364	0301000650 +	SA1	BLAB	. IF BLABOFF, RETURN WITH NO MSG
			ZR	X1,XIT	
635	6117777776	6120000144	SB1	B7-1	. POINTER TO DISPLAY CHARACTERS
			SB2	100	. CHARACTER COUNT
636	6170000637	0400000412 +	SB7	*+1	. RETLINK
			EQ	PACK	. CONVERT CHARS INTO BUFFER
637	5110000364	10611	SAYN	(WORKED)	
650	5110001156	5110000411 +	SA1	ERRJP	. ERRORS TO NORMAL PALCE
			BX6	X1	
651	5160001033	5110000411 +	SA6	START-1	
			SA1	CB7	. RESTORE RETLINK
652	63710		SB7	X1	

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0270000000
653 6117777776 6120000144 MES1 JP SB1 B7 . RETURN
      0400000412 + * SB2 B7-1 . CONVERT TEST LABEL FOR PRINTING
654 6170000655 + SB7 **1 . RETLINK
      0400000412 + EQ PACK
655 0130001164 + SAYF ( FAILED, MADE NORMAL RETURN)
672 0200000650 + JP XIT
673 6117777776 6120000144 MES2 SB1 B7-1
      0400000412 + * SB2 100
674 6170000675 + SB7 **1
      0400000412 + EQ PACK
675 0130001164 + SAYF ( FAILED, MADE F-RETURN)
712 0200000650 + JP XIT
713 6117777776 6120000144 MES3 SB1 B7-1
      0400000412 + * SB2 100
714 6170000715 + SB7 **1
      0400000412 + EQ PACK
715 0130001164 + SAYF ( FAILED, MADE ERROR RETURN)
732 0200000650 + JP XIT
733 6117777776 6120000144 MES4 SB1 B7-1
      0400000412 + * SB2 100
734 6170000735 + SB7 **1
      0400000412 + EQ PACK
735 0130001164 + SAYF ( FAILED, WRONG X6,X7 AT RETURN)
752 0400000650 + EQ XIT
753 6117777776 6120000144 MES5 SB1 B7-1
      0400000412 + * SB2 100
754 6170000755 + SB7 **1
      0400000412 + EQ PACK
755 0130001164 + SAYF ( FAILED, WRONG VALUES AT ERROR RETURN)
772 0400000650 + EQ XIT
773 0200000774 + ERJP JP ERRCODE
1341 000000000000000000065 ERRCODE MOPER C*MODPC*K.SELF.1*ERRCODE1
1345 000000000000000000026 MOPER C*ESMLOC*MASK
1347 000000000000000000052 MOPER C*JUMP,K.SELF.1
1005 0130001164 + SAYF (YOU'RE IN REAL TROUBLE)
1022 5120000411 + ERRCODE1 SA2 CB7
      63720 SB7 X2
1023 5127777775 SA2 B7-2
      7222777774 SX2 X2-3
1024 0312000713 + NZ X2,MES3 . WERENT SUPPOSED TO GET ERROR RETURN
      5110000006 SA1 6
1025 5127777773 SA2 B7-4
      13512 BX5 X1-X2
1026 5110000007 SA1 7
      5127777774 SA2 B7-3
1027 13412 BX4 X1-X2
      12445 BX4 X4+X5
      0314000753 + NZ X4,MES5
1030 0334000753 + NO X4,MES5
      0400000634 + EQ AOK
```



```
1031 0200001135 + JP ERR INITIAL ENTRY - SHOULD NEVER BE USED
1032 0200001135 + JP ERR INTERRUPT ENTRY
1033 0200001135 + JP ERR ERROR PROCESSING ENTRY
1034 46000 START NO 0 NORMAL ENTRY
      5110000360 + SA1 GOCODE INSPECT GOCODE TO DETERMINE IF THIS
      63710 SB7 X1 IS A CZLL FROM A SLAVE SUBPROCESS
1035 0301001036 + ZR X1, OOPS ASSUMES SCRATCH FILE INITIALIZES RO
      0270000000 JP R7
1036 46000 OOPS NO
```

```
1033 + ENDRW EQU START=1 AREA TO 0.
* MOVE BEAD=SUPPLIED CAPS TO TOP OF CLIST
*
```

```
1356 000000000000000000021 MOPER K.MVECAP,0,K.MALLOC,-0
1362 000000000000000000021 MOPER K.MVECAP,1,K.BEAD,-0
1366 000000000000000000021 MOPER K.MVECAP,10,K.LCLIST,-0
1372 000000000000000000021 MOPER K.MVECAP,13,K.SELF,-0
1376 000000000000000000021 MOPER K.MVECAP,CC.FILE,K.FILE,-0
1402 000000000000000000021 MOPER K.MVECAP,CC.CAPIN,K.CAPIN,-0
1406 000000000000000000021 MOPER K.MVECAP,CC.SELF,K.IPROCC,-0
1412 000000000000000000021 MOPER K.MVECAP,12,K.SCRCH,-0
```

```
* OBTAIN THE CLIST FROM IPORC
*
```

```
1067 7170777633 SX7 -NUMCAPS
1070 5170000024 + LOOP1 SA7 TEMP
      7267000144 SX6 NUMCAPS+X7
1071 5160001161 + SA6 ICIP0+2
      5160001162 + SA6 ICIP0+3
1072 0130001157 + 01 CALL ICIP0,ERR
1074 5110000024 + SA1 TEMP
      7271000001 SX7 X1+1
1075 0337001070 + NG X7,LOOP1
1076 0130001172 + XJ READSELF
1303 03141123245503171520 SAY (CLIST COMPLETE)
```

```
* OBTAIN UNIQUE NAME OF THIS PROCESS IN UNIQNM
*
```

```
1422 000000000000000000013 NEWCAP K.WOW
1426 000000000000000000005 DOPER C.CEVCH,K.MALLOC,K.WOW,2
1431 0000000000000000000075 DOPER C.SENDE,K.WOW,3
1117 43725 MOPER C.GETEVF,K.WOW
      15767 MX7 21
      5170000362 + BX7 -X7*X6
      SA7 UNIQNM
```

```
* SET ESM TO ACCEPT ALL ERRORS
*
```

```
1433 000000000000000000026 02 DOPER C.ESMLOC,MASK
```

```
* THE PARTICULAR TEST CODE IS CALLED HERE
*
```

ISUBP - INTERFACE TWIXT BEAD AND ECS TEST
 PROVIDE A CLIST, UNIQUE NAME, IO FACILITY, ETC

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1123	0200000000 X		JP	XTST1
			ENTRY	TESTN
1124	46000	TESTN	NO	
1305	24052324550317152014		SAY	(TEST COMPLETE)
1134	0130001170 +	EXIT	XJ	RETURN
1135	0130001164 +	ERR	SAYF	(YOU GOODFED)
1445	00000000000000000026		DOPER	C.ESMLOC,==0
1155	0400001134 +		EQ	EXIT
1156	0200001135 +	ERRJP	JP	ERR
1157	000000000000000000152	ICIP0	VFD	60/K.CAPIN,60/K.IPROCC
1160	000000000000000000153			
1161			BSSZ	2
1163	77777777777777777777	MASK	DATA	-0
			HERE	
			HERE	
			HERE	
1164	000000000000000000016		TRAILER	SELF
1447			END	

37437

STORAGE USED
 6600 ASSEMBLY

2017 STATEMENTS
 12.160 SECONDS

295 SYMBOLS
 711 REFERENCES

000067 INVENTED SYMBOLS

ISUBP - INTERFACE TWIXT BEAD AND EDS TEST
SYMBOLIC REFERENCE TABLE.

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AOK	634	PROGRAM*	15/23	15/42 L	16/51							
BLAB	364	PROGRAM*	2/03 E	7/22 L	15/42	15/48						
CALLBEAD	1171	PROGRAM*	12/08	16/07	16/19	16/31	18/07					
			14/41	16/13	16/25	16/37	18/18 L					
CAPX	21		7/06 D	7/10	7/11	7/12	7/13					
			7/10 D	7/11 D	7/12 D	7/13 D						
CB5	410	PROGRAM*	7/31 L	15/03 S	15/21							
CB7	411	PROGRAM*	7/32 L	15/05 S	15/10	15/16	15/52	16/37				
CC.CAPIN	20		7/12 D	17/21								
CC.FILE	17		7/11 D	17/20								
CC.SELF	16		7/10 D	17/22								
CEND	224		5/07 D	5/14	5/20 D	5/26	5/33	5/39 D	5/45	5/52		
			5/08	5/14 D	5/20	5/27	5/33 D	5/39	5/46	5/52 D		
			5/08 D	5/14	5/21	5/27 D	5/33	5/40	5/46 D	5/52		
			5/08	5/15	5/21 D	5/27	5/34	5/40 D	5/46	5/53		
			5/09	5/15 D	5/21	5/28	5/34 D	5/40	5/47	5/53 D		
			5/09 D	5/15	5/22	5/28 D	5/34	5/41	5/47 D	5/53		
			5/09	5/16	5/22 D	5/28	5/35	5/41 D	5/47	6/01		
			5/10	5/16 D	5/22	5/29	5/35 D	5/41	5/48	6/01 D		
			5/10 D	5/16	5/23	5/29 D	5/35	5/42	5/48 D	6/01		
			5/10	5/17	5/23 D	5/29	5/36	5/42 D	5/48	17/40		
			5/11	5/17 D	5/23	5/30	5/36 D	5/42	5/49	17/40 D		
			5/11 D	5/17	5/24	5/30 D	5/36	5/43	5/49 D	17/40		
			5/11	5/18	5/24 D	5/30	5/37	5/43 D	5/49			
			5/12	5/18 D	5/24	5/31	5/37 D	5/43	5/50			
			5/12 D	5/18	5/25	5/31 D	5/37	5/44	5/50 D			
			5/12	5/19	5/25 D	5/31	5/38	5/44 D	5/50			
			5/13	5/19 D	5/25	5/32	5/38 D	5/44	5/51			
			5/13 D	5/19	5/26	5/32 D	5/38	5/45	5/51 D			
			5/13	5/20	5/26 D	5/32	5/39	5/45 D	5/51			
CHKR	622	PROGRAM*	15/15	15/21 L								
CHK6	627	PROGRAM*	15/26	15/31 L								
CVTOUT	554	PROGRAM*	14/01 E	14/07 L								
C.ACAP	36		3/36 D									
C.ADDOPT	37		3/37 D									
C.ADDORD	61		4/02 D									
C.ALLOC	1		3/04 D									
C.BDAT	105		4/32 D									
C.BLKCAP	106		4/33 D									
C.CAGEN	113		4/38 D									
C.CAPIN	23		3/24 D									
C.CAPOU	24		3/25 D	3/26								
C.CAPOUT	24		3/26 D									
C.CBLK	11		3/12 D									
C.CCC	15		3/16 D									
C.CCCLOA	62		4/03 D									
C.CCLIST	7		3/10 D									
C.CEVCH	13		3/14 D	17/41								
C.CFILE	10		3/11 D									
C.CGEN	114		4/39 D									
C.CHKBLK	41		3/39 D	4/29								
C.CHMPRO	123		4/46 D									
C.CHMPRW	122		4/45 D									

ISUBP - INTERFACE TWIXT BEAD AND ECS TEST
SYMBOLIC REFERENCE TABLE.

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C.CHNGWD	67	4/09	D			
C.CLRDAE	70	4/13	D			
C.CLRIIB	74	4/17	D			
C.COPYOP	40	3/38	D			
C.CPROC	12	3/13	D			
C.CPZRO	126	4/51	D			
C.CRALBK	64	4/05	D			
C.CSPROC	14	3/15	D			
C.DELAB	76	4/19	D			
C.DELBLK	42	3/40	D			
C.DELCL	57	3/53	D			
C.DELFIL	43	3/41	D			
C.DELSUB	72	4/15	D			
C.DESECH	101	4/24	D			
C.DISMAP	51	3/47	D			
C.DISPOP	107	4/34	D			
C.DISPST	54	3/50	D			
C.DISSEN	55	3/51	D			
C.DLOPR	132	5/02	D			
C.DLPROC	66	4/07	D			
C.DONATE	63	4/04	D			
C.DPROD	67	4/08	D	4/09		
C.DSCAP	20	3/19	D	3/20		
C.DSCLX	124	4/49	D			
C.DSFMAP	56	3/52	D			
C.DSPAB	104	4/31	D			
C.DSPALC	121	4/44	D			
C.DSPCAP	20	3/20	D			
C.DSPCLX	102	4/25	D			
C.DSPOB	120	4/43	D			
C.DSPSP	115	4/40	D			
C.ESMGEN	25	3/27	D			
C.ESMLOC	26	3/28	D	16/34	17/50	18/07
C.FIXC	32	3/32	D			
C.FIXD	33	3/33	D			
C.FRETUR	31	3/31	D			
C.FSON	21	3/21	D			
C.GETE	6	3/09	D	4/28		
C.GETEVF	75	4/18	D	17/43		
C.GRAB	133	5/03	D			
C.HANG	6	4/28	D			
C.INCHR	117	4/42	D			
C.INMTR	131	5/01	D			
C.INTFIL	2	3/05	D			
C.JUMP	52	3/48	D	16/35		
C.MAPZRO	45	3/43	D			
C.MGETF	100	4/22	D			
C.MGETH	77	4/20	D			
C.MKMPRO	46	4/48	D			
C.MKMPRW	47	4/47	D			
C.MKOPR	27	3/29	D			
C.MODPC	65	4/06	D	16/33		
C.MOVBLK	50	3/46	D			

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[illegible]

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NAME	ADDRESS	PROGRAM#	DATE	TIME	DATE	TIME	DATE	TIME
K.CALLC	205		5/41	D				
K.CALLD	206		5/42	D				
K.CAPIN	152		5/14	D	17/21		18/10	
K.CLIST	164		5/24	D				
K.CLIST1	215		5/49	D				
K.CLSCD	171		5/29	D				
K.CLSCD2	172		5/30	D				
K.CLSTA	177		5/35	D				
K.CLSTB	200		5/36	D				
K.CLSTC	201		5/37	D				
K.CLSTD	202		5/38	D				
K.COMSLV	157		5/19	D				
K.CPMK1	211		5/45	D				
K.CPMK2	212		5/46	D				
K.CSELF	167		5/27	D				
K.CSUBP	170		5/28	D				
K.FALLOC	155		5/17	D				
K.FILE	151		5/13	D	17/20		18/18	
K.FILE1	213		5/47	D				
K.FILE2	214		5/48	D				
K.FILE3	220		5/52	D				
K.GALLOC	156		5/18	D				
K.HALLOC	222		6/01	D				
K.IPROCC	153		5/15	D	17/22		18/11	
K.LCLIST	147		5/11	D	17/18			
K.MALLOC	145		5/09	D	17/16		17/42	
K.MVECAP	21		17/13	D	17/16		17/18	17/20
			17/15		17/17		17/19	17/21
K.OPER1	221		5/53	D				
K.PROC1	216		5/50	D				
K.SCRCAP	210		5/44	D				
K.SCRCH	144		5/08	D	17/23			
K.SELF	150		5/12	D	16/34		16/36	17/19
K.SLAVE	161		5/21	D				
K.SLVSP	160		5/20	D				
K.SPCLST	166		5/26	D				
K.SUBP	165		5/25	D				
K.SUBpA	173		5/31	D				
K.SUBPB	174		5/32	D				
K.SUBPC	175		5/33	D				
K.SUBpD	176		5/34	D				
K.SUBP1	217		5/51	D				
K.TEVCH1	154		5/16	D				
K.TEVCH2	162		5/22	D				
K.TEVCH3	163		5/23	D				
K.WOW	223		17/40	D	17/42		17/43	17/44
LAST	570	PROGRAM#	14/24		14/30	L		
LOOP1	1070	PROGRAM#	17/27	L	17/34			
LOOP2	557	PROGRAM#	14/13	L				
LOOP3	556	PROGRAM#	14/11	L	14/48			
LOOP4	560	PROGRAM#	14/14	L	14/29			
MASK	1163	PROGRAM#	2/04	E	16/35		17/51	18/13 L
MES1	653	PROGRAM#	15/20		16/02	L		

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MES2	673	PROGRAM*	15/14	16/08 L						
MES3	713	PROGRAM*	16/14 L	16/41						
MES4	733	PROGRAM*	15/40	15/41	16/20 L					
MES5	753	PROGRAM*	16/26 L	16/49	16/50					
NEWBLK	1177	PROGRAM*	18/18 L							
NOMOR	633	PROGRAM*	15/30	15/40 L						
NORM	617	PROGRAM*	15/09	15/16 L						
NORM6	632	PROGRAM*	15/32	15/33	15/38 L					
NUMCAPS	144		5/06 D	5/07	17/26	17/28				
NUMDON	602	PROGRAM*	14/08	14/49 L						
OOPS	1036	PROGRAM*	17/07	17/09 L						
OUTBUF	367	PROGRAM*	7/25	7/27 L						
OUTCNT	366	PROGRAM*	7/26 L	8/10	9/09 S	12/13 S				
OUTPOINT	365	PROGRAM*	7/25 L	8/09	12/06	12/18				
OUTTRANS	443	PROGRAM*	8/43	10/04 L						
01	1072	PROGRAM*	17/31 L							
02	1120	PROGRAM*	17/50 L							
PACK	412	PROGRAM*	2/02 E	15/49	16/11	16/19	16/29	17/37		
			8/09 L	16/05	16/13	16/23	16/31	18/05		
			15/47	16/07	16/17	16/25	16/37	18/07		
PACK1	416	PROGRAM*	8/21 L	8/24						
PACK1A	420	PROGRAM*	8/21	8/26 L						
PACK2	421	PROGRAM*	8/30 L							
PACK3	424	PROGRAM*	8/37 L	9/02	9/06					
PACK4	432	PROGRAM*	8/46	8/53 L						
PACK5	436	PROGRAM*	8/37	8/40	9/08 L					
PACK6	440	PROGRAM*	9/12 L	9/16						
READSELF	1172	PROGRAM*	17/35	18/18 L						
REGSAVE	0	PROGRAM*	2/02 E	7/15 L	18/18	18/18				
RESTREG	1166	PROGRAM*	14/43	16/13	16/25	16/37	18/18 L			
			16/07	16/19	16/31	18/07				
RETLINK	361	PROGRAM*	2/04 E	7/19 L						
RETURN	1170	PROGRAM*	18/05	18/18 L						
SAVEREG	1164	PROGRAM*	14/36	16/12	16/24	16/36	18/17 L			
			16/06	16/18	16/30	18/06				
SCLIST	310		5/05 D	7/06						
SDESC	603	PROGRAM*	14/35	14/50 L						
SKP	562	PROGRAM*	14/15	14/17 L	14/23					
SLVNM	363	PROGRAM*	2/04 E	7/21 L						
START	1034	PROGRAM*	2/02 E	7/06	7/08	15/08 S	17/04 L	18/18		
			7/06	7/07	7/08	15/51 S	17/11			
SVB7	407	PROGRAM*	7/30 L	12/05 S	12/10					
TEMP	24	PROGRAM*	2/02 E	16/35 S	17/17 S	17/20 S	17/23 S	17/42 S	17/51 S	
			7/16 L	16/36 S	17/18 S	17/21 S	17/27 S	17/43 S	18/08 S	
			16/34 S	17/16 S	17/19 S	17/22 S	17/32	17/44 S		
TESTN	1124	PROGRAM*	18/02 E	18/03 L						
TEST1	0	EXTERNAL*	18/01							
TOPEP	610	PROGRAM*	15/01 E	15/02 L						
TYPEOUT	543	PROGRAM*	2/02 E	15/49	16/13	16/25	16/37	18/05		
			12/04 L	16/07	16/19	16/31	17/37	18/07		
UNIQNM	362	PROGRAM*	2/04 E	7/20 L	17/46 S					
W3ORDS	605	PROGRAM*	14/25	14/34 S	14/50	14/52 L				
XIT	650	PROGRAM*	15/43	15/49 L	16/07	16/13	16/19	16/25	16/31	

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SYMBOLIC REFERENCE TABLE.

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XPACK	334	PROGRAM*	2/03 E	15/49	16/13	16/19	16/31	16/37	18/05	18/07
			7/17 L	16/07	16/13	16/25	16/31	17/37	18/05	
			15/49	16/07	16/19	16/25	16/37	17/37	18/07	