

LENGTH OF PRG 00732

		IDENT	OPMSG
00512	P	3	ENTRY ACCPRINT
00731	P	4	ENTRY BUSY
00615	P	5	ENTRY CALMSFMT
00412	P	6	ENTRY ENOREAD
00105	P	7	ENTRY MANINT
00610	P	8	ENTRY MOUNTRET
00575	P	9	ENTRY MSFLOAD
00243	P	9+001	ENTRY OCTPACK
00005	P	10	ENTRY OPMSG
00000	P	11	ENTRY OPMMSGX
00730	P	12	ENTRY SCREAM
		13	
		14	EXT ACCNUM
		15	EXT BIT15
		16	EXT BIT19
		17	EXT BIT22
		18	EXT BIT23
		19	EXT BLANKS
		20	EXT CLRMTWT
		21	EXT CMQSET
		22	EXT DIEBIT
		23	EXT D10
		23+001	EXT DUMP8
		24	EXT FINK
		25	EXT FLAGS
		26	EXT FREEMEM
		27	EXT GETBUFF
		28	EXT GETMEM
		29	EXT GETPAGE
		30	EXT GIVBUFFA
		31	EXT IDLE
		32	EXT INHIBIT
		33	EXT IOCL
		34	EXT IOCL8BIT
		35	EXT IOCLEAR
		36	EXT IOSET
		37	EXT IRUNPEND
		38	EXT KILL
		39	EXT MESFLAG
		40	EXT NCONWAIT
		41	EXT NOENDBIT
		42	EXT NOPIBIT
		43	EXT NOPWAIT
		43+001	EXT NMTWAIT
		44	EXT OPABORT
		45	EXT OPIBIT
		46	EXT OPTERM
		47	EXT OPWAIT
		48	EXT MACHERR
		49	EXT PC
		50	EXT PF1
		51	EXT PSABLK
		52	EXT READ
		53	EXT STRT
		54	EXT SYSCODE
		55	EXT SUSBIT
		56	EXT TAPELIST
		57	EXT TBLKLIST
		57+001	EXT TNUMLIST
		58	EXT TERMINAL
		59	EXT TIMSET
		60	EXT TPUNITS
		61	EXT TRMNUM
		62	EXT USRMAX
		63	EXT USRNUM
		64	EXT VANISH
		65	EXT WARN
		66	
00000		67	IMPURE EQU 00000
00001		68	X1 EQU 1
00002		69	X2 EQU 2
00003		70	X3 EQU 3
00000		71	PSA EQU 0
00001		73	PFLOC EQU 1
04000		74	CORE EQU PFLOC*2 ¹¹
00035		75	NU EQU 358

IRUNBIT + NCENDBIT

REGESTER FILE LOCATION WITH

00005

76

77

* BUFSIZ

EQU

5

NUMBER OF USERS
BASE TWO LOG OF INPUT BUFFER SIZE

00051	53420033	157	TAM	33B	
00052	77760000	158	CTO	*	START THE TYPING OPERATION
00053	0-0053 P	159	OPMSG10	ENQ	WAIT 70 MSEC MORE
00054	14600106	160		70	
00055	14700060 P	161		OPMSG08	
00056	00777777 X	162		RTJ	
00057	14300000	163	OPMSG04	TIMSET	
	01000000	164	OPMSGRET	ENI	IMPURE,X3
		165		UJP	IMPURE
		166	OPMSG08	EQU	*
00060	47300057 P	167		STI	OPMSGRET,X3
00061	77600400	168		PAUS	400B
00062	01000053 P	169		UJP	OPMSG10
00063	14477776	170		ENA,S	-1
00064	34000731 P	171		RAD	BUSY
00065	11300000	172		ECHA	3000008
00066	30400657 P	173		ADA,I	TYQBEGIN
00067	13700006	174		SCAQ	6,X3
00070	20000657 P	175		LDA	TYQBEGIN
00071	54500657 P	176		LDI,I	TYQBEGIN,1
00072	47100657 P	177		STI	TYQBEGIN,1
00073	00777777 X	178		RTJ	FREEMEM
00074	14600657 P	179		ENA	TYQBEGIN
00075	05100001	180		ISG	000018,1
00076	44000660 P	181		SWA	TYQEND
00077	04000000	182	INWAIT	ISE	ADJUST THE END POINTER
00100	01000112 P	183		IMPURE,0	SKIP IF NO INPUT IS WAITING
00101	02500041 P	184		MAND	DO THE INPUT FOR THE OPERATOR
00102	14677777 X	184+001		IJD	CONSOLE WAIT CLEAR
00103	54100057 P	184+002		ENA	GET THE RETURN ADDRESS
00104	01000360 P	184+003		OPMSG06,1	CLEARALL
				UJP	CLEAR EVERYBODY IN THE HOUSE

00201	17707070	268	ANQ	070708	CHECK THE SECOND AND THIRD DIGITS
00202	04700000	269	QSE	0	FOR OCTAL NUMBERS
00203	01000207 P	270	UJP	ERROR	THEY WERE NOT
00204	16130000	271	XOI	30000B,X1	A COMMA IS A 73
00205	05177777 X	272	ISG	USRMAX,X1	
00206	01000167 P	273	UJP	PACKEND	
	00207 P	274		*	
00207	14300002	275	ERROR	EQU	
00210	00700114 X	276		ENI	2,3
00211	25000217 P	277		RTJ	GETMEM
00212	40300002	278		LDAQ	QMMARKS
00213	14600007	279		STA	2,3
00214	12000017	280		ENA	7
00215	35000657 P	281		SHA	15
00216	01000226 P	282		SSA	TYQBEGIN
00217	17177700	283		UJP	MAN06
		284	QMMARKS	OCT	17177700,77771717
00221	01000207 P	285			ERROR RETURN FOR EXTERNAL ROUTINE
00222	14300001	286		UJP	
00223	00700210 X	287	MAN05	ENI	1,3
00224	25000657 P	288		RTJ	GETMEM
00225	35077777 X	289		LDAQ	TYQBEGIN
00226	45300000	290		SSA	BIT15
00227	47300657 P	291	MAN06	STAQ	0,3
00230	05600001	292		STI	TYQBEGIN,3
00231	47300660 P	293		ASG	1
00232	20000125 P	294		STI	TYQEND,3
00233	14300005	295		LDA	SET THE END-POINTER PROPERLY
00234	04600000	296		MAN02	LOAD THE BUFFER ADDRESS
00235	00700073 X	297		ENI	BUFSIZ,X3
00236	20077777 X	298		ASE	0
00237	34000731 P	299		RTJ	FREEMEM
00240	14600000	300		LDA	BIT22
00241	44000057 P	301	MANRET	RAD	BUSY
00242	01000041 P	302		ENA	CLEAR THE SIGN BIT AND INCREMENT
		303		SWA	IMPURE
				UJP	OPMSGRET
					ENTER THE RETURN ADDRESS
					OPMSG06

```
***** OCTPACK -- *****  

303+003 *  

303+004 * OCTPACK --  

303+005 *  

303+006 * ROUTINE TO PACK THE UPPER 12 BITS OF Q INTO BCD CHARS IN A.  

303+007 *  

303+008 * ENI <RETURN ADDRESS>, X3  

303+009 * LDQ <NUMBER> 1234XXXX FOR EXAMPLE  

303+010 * UJP OCTPACK  

303+011 *  

303+012 * -- ON EXIT --  

303+013 *  

303+014 * X1 -- ZERO  

303+015 * X2 -- UNCHANGED  

303+016 * X3 -- RETURN ADDRESS UNCHANGED  

303+017 * A -- 01020304  

303+018 * Q -- XXXX0000  

303+019 *  

***** LOWER 12 BITS OF Q IN UPPER 12 *****  

***** PACKED AS BCD CHARACTERS *****
```

00243 P	303+022 OCTPACK EQU *		
00243 14600000	303+023 ENA 0	CLEAR FOR STARTS	
00244 14100003	303+024 ENI 3,X1	LOOP COUNTER	
00245 12000003	303+025 SHA 3	UP FOR SHIFT	
00246 13000003	303+026 SHAQ 3	SHIFT UP TO MAKE BCD	
00247 02500245 P	303+027 IJD *-2,X1	LOOP FOUR ITERATIONS	
00250 01300000	303+028 UJP 0,X3	AND RETURN	

```

306   *
307   * ABORT, TERMINAL
308   *

310
311   ABORT EQU    *
312       LDAQ   1,X2     LOAD THE TERMINAL
313       SHAQ   -6
314       RTJ    PACK
315       AZJ, LT MAN05
316       ENA    OPABORT
317       CMQSET
318       UJP    MAN05
319
320
321   ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

323   *
324   * ALLOW
325   *

327
328   A   EQU    *
329       ENA, S NOPIBIT
330       LPA    INHIBIT
331       UJP    SETINHIB
332   ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

334   *
335   * CLEAR, C
336   *

338
339   C   EQU    *
340       LOA    1,X2     ROUTINE TO ALLOW CHANNEL CLEAR
341       SHA    -6     LOAD THE CHANNEL NUMBER
342       XOA    17300B
343       ASG    00010B
344       UJP    *+2     SKIP IF INVALID
345       UJP    ERROR
346       SWA    IOCL
347       ENA    IOCLBIT
348       SSA    FLAGS
349       STA    FLAGS
350       UJP    MAN05
351   ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

353   *
354   * GO, TERMINAL
355   *

357
358   G   EQU    *
359       LDAQ   0,X2     ROUTINE TO RELEASE THE EFFECT OF
360       RTJ    PACK
361       ENA, S NOPWAIT
362       RTJ    IOCLEAR
363       UJP    MAN05
364   ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **

366   *
367   * LOGOFF, TERMINAL
368   *

370
371   L   EQU    *
372       RTJ    PACK
373       ISG    1,X1
374       UJP    ERROR
375       ENA    OPTERM
376       SWA    QMSET
377       ENQ    1
378       RTJ    TERM
378+001  UJP    CLEARMTW
#LOGOFF#
PREVENT OPERATOR OR MALFUNCTIONING
TYPEWRITER FROM HITTING PHANTOM
SAY TERMINATE THIS GUY
SAY TO LOGOFF BATCH JOBS
GO CLEAR ALL MT WAIT ON ALL

```

```

382   *
383   * MTX,YYYYY
384   *
386
387   M EQU    * BUFFER ADDRESS TO A
388   TIA X2
389   SHA 2
390   INA 11
391   SCH A M01
392   LDA 0,X2 LOAD THE UNIT NUMBER
393   SHA -6
394   ANA 77B
395   TAI X3 SAVE JUST ONE CHARACTER
396   ISG TPUNITS,X3 SAVE IN X3
397   UJP *+2 CHECK FOR UNIT OUT OF RANGE
398   UJP ERROR
399   ENI TPUNITS,X1
400   ENQ,S 77777B
401   SSA BIT23
402   MEQ TAPELIST,1
403   UJP *+2
404   UJP ERROR PHYSICAL IMPOSSIBILITY
405   ENI -7,2
406   ENA 0
407   M01 LOCH IMPURE,2
408   QSG 10
409   IJI M02,2
410   ENO,S 77777B
411   ENI TPUNITS,1
412   ASE,S 0 ZERO IS AN ILLEGAL NUMBER
413   MEQ TAPELIST,1
414   UJP ERROR
415   STA TNUMLIST,X3
416   ENA,S -1 TURN OFF THE RACKET
417   RAD SCREAM
418   TIA X3
419   STA,I TBULKLIST,1
420   SSA BIT23
421   STA TAPELIST,X1
422   00356 P
423   420+001 CLEARMTW EQU *
424   420+002 ENA NMTWAIT
425   420+003 ENI MAN05,X1 MAG TAPE WIAT
426   420+004
427   00360 P RETURN ADDRESS
428   420+005 CLEARALL EQU *
429   420+006 LDI IDLE,X3+PSA GET POINTER TO THE FIRST USER
430   420+007 SWA CLEARBIT SAVE BITS TO CLEAR
431   420+008 TMI NU,X2 NUMBER OF USERS TO CLEAR
432   420+009 CLEARBIT ENA,S IMPURE GET THE BIT
433   420+010 RTJ IOCLEAR AND CLEAR SOMEONE
434   420+011 LOA 0,X3+PSA GET POINTER TO NEXT USER
435   420+012 TAI X3+PSA AND POINT TO HIM
436   420+013 IJ0 CLEARBIT,X2 LOOP TIL OUT OF USERS
437   420+014 UJP 0,X1 RETURN TO CALLER
438   420+015
439   423 M02 STQ TEMP1
440   424 MUA D10
441   425 ADA TEMP1
442   426 UJP M01
443
444   S EQU *
445   LDA 1,X2 ROUTINE TO STOP A GIVEN TERMINAL
446   SHA -12
447   RTJ PACK
448   ENA OPWAIT
449   RTJ IOSET
450   UJP MAN05

```

```

443 *
444 * END
445 * ****
447
448 END EQU *
449 TIA X2 PAGE NUMBER TO (A)
450 ENQ 0
451 SHAQ 24+11 FORM CORE ADDRESS IN (Q)
452 STI END02,X3 SAVE THE RETURN ADDRESS
453 ENI READ,X2
454 ENI 40008,X1
455 ENI END04,X3
456 ENDREAD ENA IMPURE
457 RTJ FINK
458 END02 UJP IMPURE
459
460 UJP *
461 END04 ENI IDLE,X2 IRRECOVERABLE ERROR
462 ENA 40008+1 CHANGE IDLES PSA
463 STA PC,X2
464 SHAQ 24-9
465 SWA PF1,X2
466 UJP 0,X3
467
468 E EQU *
469 LOA INHIBIT ROUTINE TO END THE SYSTEM
470 ANA IRUNPEND SEE IF COMMAND LEGAL
471 AZJ,NE ERROR SEE IF INITIAL OR END RUNNING
472 ENA NOENDBIT YES - NO CAN END
473 RAD INHIBIT GET END RUNNING BIT
474 ENI END,X3 SET INTO INHIBIT WORD
475 RTJ GETPAGE COMPLETION RETURN
476 ENI MAN05,X2 START A PAGE COMING IN.
477 ENA OPTERM DONT OP INHIBIT
478 UJP T3 SAY TERMINATE THE USER
479 GO DO IT
480
481 *
482 *
483 * TERMINATE
484
485
486 T EQU *
487 ENA OPTERM ROUTINE TO LOG OFF ALL REAL-TIME
488 T2 EQU SAY OPERATOR TERMINATION
489 ENI I,X2
490 T3 EQU
491 SWA OMSET SET REQUEST FLAG
492 ENI TRMNUM,X1
493 ENQ 0
494 RTJ TERM DONT LOGOFF BATCH JOBS
495 TSD 12X1 DONT LOGOFF PHANTOM
496 UJP *23
497 UJP 0,X2 RETURN TO APPROPRIATE PLACE
498
500
501 * INHIBIT
502 *
503
504
505 I EQU *
506 ENA OPIBIT ROUTINE TO INHIBIT USERS FROM
507 SSINHIB SSA INHIBIT LOGGING INTO THE SYSTEM
508 SETINHIB STA INHIBIT
509 UJP MAN05

```

```

512 *
513 * DIE
514 *
*****  

00453 00453 P 516 DIE EQU *
00453 20000451 X 517 LDA INHIBIT QUICKLY TERMINATE THE SYSTEM
00454 17600427 X 518 ANA NOENDBIT
00455 03000207 P 519 AZJ,EQ ERROR LEGAL ONLY IF END IN PROGRESS
00456 14677777 X 520 ENA DIEBIT NO END - ERROR
00457 01000450 P 521 UJP SSINHIB  

523 *****  

525 *
526 * SUSPEND
527 *
*****  

00460 00460 P 529 SUSP EQU *
00460 20000453 X 530 LDA INHIBIT
00461 17600454 X 531 ANA NOENDBIT LEGAL ONLY IF END IN PROGRESS
00462 03000207 P 532 AZJ,EQ ERROR END NOT IN PROGRESS - ERROR
00463 14677777 X 533 ENA SUSBIT GET SUSPEND BIT
00464 01000450 P 534 UJP SSINHIB SET INTO INHIBIT WORD  

536 *
537 * WARN
538 *
*****  

00465 00465 P 540 W EQU *
00465 14677777 X 541 ENA WARN SAY TO WARN USER OF IMPENDING
00466 01000437 P 542 UJP T2 DOOM.  

544 *
545 * MESSAGE/NOMESSAGE
546 *
547 *
548 * ENTER WITH A=4HMESS TO TURN ON MESSAGE (EVEN)
549 * ENTER WITH A=4HNAME TO TURN OFF MESSAGE (ODD)
550 *
*****  

00467 00467 P 552 MESONOFF EQU *
00467 12077776 553 SHA -1
00470 17600020 554 ANA 200 THE COMMANDS DIFFER IN THE PROPER
00471 44077777 X 555 SWA MESFLAG SET MESSAGE FLAG
00472 01000222 P 556 UJP MAN05

```

```

559   *
560   * USERLIST
561   *
563   *
564   USERLIST EQU    * PRINT CUT A LIST OF ALL USERS
565   ENI      USRMAX,X2
566   UJP      USER04
567   *
568   USER02  LDA    PSABLK,X2 LOAD THE PSA FINGER
569   ASG      1     SKIP IF PRESENT
570   UJP      USER04 JUMP IF NOT
571   TAI    X3+PSA
572   SHA    1     CHECK IF LOGON/LOGOFF STATUS
573   AZJ,LT USER04 JUMP IF IT IS
574   ENI    *+2,X2 ENTER THE RETURN ADDRESS
575   UJP    ACCPRINT PRINT OUT THE JOB/USER NUMBER
576   LDA    TERMINAL,X3+PSA LOAD THE TERMINAL NUMBER
577   SHA    -15
578   TAI    X2
579   USER04 IJD    USER02,X2
580   UJP    MAN05
581   *
582   *
583   ACCPRINT EQU    * LOAD THE ACCOUNT NUMBER
584   LDA    ACCNUM,X3+PSA
585   ENI    6,1
586   U04    SHAQ -24
587   DVA    D10
588   SQCH   UBUFFER+4,1
589   IJD    U04,1
590   LDQ    USRNUM,X3+PSA LOAD THE USER CODE
591   SHAQ   6
592   ASG    9
593   UJP    U06
594   SHAQ   -6
595   STQ    UBUFFER+3
596   ENA    778
597   SACH   UBUFFER+16
598   ENA    17 ENTER MESSAGE LENGTH
599   LDQ    TERMINAL,X3+PSA LOAD THE TERMINAL NUMBER
600   ENI    -2,X1
601   ANQ,S  77770B
602   SHQ    3
603   SQCH   UBUFFER+2,X1
604   IJI    *-3,X1
605   SHAQ   24
606   ECHA   UBUFFER
607   UJP    OPMSG
608   SHAQ   18
609   ENI    5,1
610   SHAQ   -24
611   DVA    D10
612   SQCH   UBUFFER+12,1
613   IJD    *-3,1
614   ENA    19 ENTER THE MESSAGE LENGTH
615   UJP    U05

```

618 *
 619 *. PACK,XXX,CXEXUXX
 620 *
 622 *
 623 PACKREQ EQU *
 624 PACKFLAG ISE IMPURE,0 SHOULD WE ALLOW THE REQUEST
 625 UJP ERROR
 626 STI MAN02,0 SAVE THE INPUT REQUEST
 627 STI PACKBLK,X2 REMEMBER WHERE THE BLOCK IS
 628 STI PACKFLAG,X2 DON'T ALLOW ANY MORE REQUESTS
 629 LDI MANRET,X3 LOAD THE RETURN ADDRESS
 630 SII PACKEXIT,X3 SAVE THE RETURN
 631 ENI PACK02,X3 CHANGE THE RETURN TO RETURN TO
 632 STI MANRET,X3 HERE
 633 UJP MAN05
 634 *
 635 PACK01 EQU *
 636 STI PACKEXIT,X2 SAVE THE RETURN ADDRESS
 637 UJP PACK03
 638 *
 639 PACK02 EQU *
 640 ENQ PACK01
 641 ENA *+2 ENTER INTERRUPT RETURN
 642 UJP GETBUFF ENTER IMMEDIATE RETURN
 643 AZJ,LT PACKEXIT
 644 EQU * EXIT IF NO BLOCK
 645 SWA PACKPAGE
 646 ENQ 0 SAVE THE 1/4 PAGE ADDRESS
 647 SHAQ -24+9 FORM 18 BIT CORE ADDRESS IN (Q)
 648 MSFLOAD IMPURE ENTER THE DISK ADDRESS
 649 ENA 1000B,X1 READ IN THE WHOLE FILE BLOCK
 650 ENI
 651 ENI
 652 RTJ FINK
 653 RTJ IMPURE
 654 RTJ MACHERR
 655 RTJ IMPURE,X2 ENTER THE BUFFER ADDRESS
 656 SHAQ 24-9 FORM 1/4 PAGE ADDRESS IN A
 657 APF PFLOC
 658 UJP CORE
 659 *
 660 MOUNTRET EQU *
 661 STI PACKFLAG,0 ALLOW THE NEXT MOUNT REQUEST
 662 APF PFLOC
 663 ENA IMPURE
 664 PACKPAGE EQU *
 665 STI PACKPAGE,0 ENTER THE 1/4 PAGE NUMBER
 666 UJP GIVBUFFA FORGET WE HAVE THE CORE
 667 *
 668 CALMSFMT EQU *
 669 LOA PACKFLAG IS THE ROUTINE IN CORE
 670 ASE 0
 671 UJP 0,X3 EXIT IF IT IS
 672 STI PACKEXIT,X3 SAVE THE RETURN ADDRESS
 673 STI PACKFLAG,X3 SAY THE ROUTINE IS COMMING IN
 674 STI PACKBLK,0 SAY NO MESSAGE AREA
 675 UJP PACK02

```

678 *
679 # XINT,EC
680 *
682 ****
683 X LDA 1,X2
684 SHAQ -24+6 ROUTINE TO SIMULATE AN EXTERNAL
685 SHQ 3 EQUIPMENT INTERRUPT
686 SHAQ 3 WITHOUT STOPPING THE PROCESSOR
687 ANA 0077B
688 SWA 00005B MASK TO AN INTERRUPT CODE
689 RTJ 00004B STORE THE INTERRUPT CODE AT 00005
690 UJP MAND5 SAVE PC AT 00004 AND INTERRUPT
691 RETURN

693 *
694 * THIS ROUTINE IS USED TO LOGOFF A USER
695 *
697 ****
698 TERMX ENA VANISH CALL DESTRUCT
699 TERMY RTJ CMQSET
700 TERM UJP IMPURE
701 LDA PSABLK,X1
702 ASG 1
703 UJP TERM
704 TAI X3+PSA
705 AZJ,LT TERMX
706 LDA SYSCODE,X3+PSA
707 LPA BIT19 CHECK BATCH JOB BIT
708 QSE 1 SKIP IF IGNORE BATCH
709 AZJ,NE TERM LEAVE THE BATCH JOB ALONE
710 QMSET ENA IMPURE SET APPROPRIATE FLAG
711 UJP TERMY
712
713 UBUFFER BCD 5,NNN JJJJJJJJ/UUUUUU^
714 TEMP1 EQU UBUFFER+1 1 WORD TEMPORARY
715 TYQBEGIN VFD 09/000,A15/IMPURE,H6/^,03/0,A15/TYQBEGIN+IMPURE
716 TYQEND EQU TYQBEGIN+1
717 TABLE EQU *
718 VFD H6/G,03/0,A15/G
719 VFD H6/M,03/0,A15/M
720 VFD H6/U,03/0,A15/USERLIST
721 LENGTH EQU *-TABLE
721+001 * SIGN BIT ON AN ENTRY MEANS IT REQUIRES SJ1
722 TWABLE EQU *
723 VFD H24/MESS,09/000,A15/MESONOFF
724 VFD H24/NOME,09/000,A15/MESONOFF
725 VFD H24/WARN,09/000,A15/W
726 VFD H24/ABOR,09/000,A15/ABORT
727 VFD H24/ALLO,09/000,A15/A
728 VFD H24/DIE,09/000,A15/DIE
729 VFD H24/SUSP,09/000,A15/SUSP
730 VFD H24/CLEA,A24/C
730+001 VFD H24/XINT,09/400,A15/X
732 VFD H24/END,A24/E
733 VFD H24/INHI,A24/I
734 VFD H24/PACK,09/000,A15/PACKREQ
734+001 VFD H24/KILL,09/400,A15/KILL
735 VFD H24/LOGO,A24/L
737 VFD H24/STOP,A24/S
738 VFD H24/TERM,A24/T
738+001 VFD H24/STRT,09/400,A15/STRT
738+002 VFD H24/DUMP,09/000,A15/DUMP8
740 WLNT EQU *-TWABLE
741
742 SCREAM VFD A24/IMPURE HAVE THE CONSOLE CRY IF NON ZERO
743 BUSY VFD A6/IMPURE,03/0,A15/IMPURE
744 * NEGATIVE SEZ CII IN PROGRESS
745 * LOWER 15 BITS IS COUNTER OF
746 * NUMBER OF QUEUED OUTPUT MESSAGES
747 END

```

NO LINES WITH ERRORS

X	00624P	683	730+1 00705P									
X1	00001	68	184+2 00103P	241+2 00153P	258 00167P	267 00200F	271 00204P	272 00205P				
			303+24 00244P	303+27 00247P	373 00305P	369 00327P	420 00355P	420+3 00357P				
			420+14 00370P	454 00410P	492 00441P	495 00444P	600 00532P	603 00535P				
			604 00536P	649 00576P	701 00637P							
X2	00002	69	115 00004P	122 00012P	216 00123P	218 00125P	219 00126P	229 00135P				
			230 00136P	238 00146P	246 00162P	313 00251P	340 00263P	359 00276P				
			371 00303P	388 00314P	392 00320P	420+8 00362P	420+13 00367P	435 00375P				
			449 00403P	453 00407P	461 00416P	463 00420P	465 00422P	476 00433P				
			489 00437P	497 00446P	565 00473P	568 00475P	574 00503P	578 00507P				
			579 00510P	627 00555P	628 00556P	636 00564P	650 00577P	655 00604P				
			683 00624P									
X3	00003	70	163 00056P	167 00060P	174 00067P	202 00106P	207 00113P	209 00115P				
			224 00132P	225 00133P	228 00134P	237 00145P	259 00170P	260 00171P				
			296 00233P	303+28 00250P	395 00323P	396 00324P	414+1 00347P	417 00352P				
			420+6 00360P	420+11 00365P	420+12 00366P	452 00406P	455 00411P	466 00423P				
			474 00431P	571 00500P	576 00505P	584 00512P	590 00520P	599 00531P				
			629 00557P	630 00560P	631 00561P	632 00562P	651 00600P	671 00617P				
			672 00620P	673 00621P	704 00642P	706 00644P						