

ADDRESS      LENGTH                      BINARY CONTROL CARDS.

          0           277           IDENT      DSKTTY  
          277                            END

ENTRY POINTS.

TYPEOUT -      16      TYPEIN. -      34      TRANSTB -      137  
TYPEIN -      27      CONVNUM -      103      DISASCI -      0

EXTERNAL SYMBOLS.

TTYBUFF    TSAVE    TRESTOR    PARAM    BEAD    LINCALL

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          IDENT      DSKTTY
          ENTRY      TYPEOUT,TYPEIN,TYPEIN,,CONVNUM,TRANSTR
*
          EXT        TTYBUFF,TSAVE,TRESTOP,PARAM,BEAD
          CEJ        MACRO      WT,CT,JP,DATA,DCT,CAPS,CCT
*
          *          XJ        WT
          *
          DAT        IFC        NE,**DATA*
          RTLST      CT,JP,DATA,DCT,CAPS,CCT
          DAT        ENDIF
*
          *          CAP        IFC        NE,**CAPS*
          CAP        IFC        EQ,**DATA**,1
          RTLST      CT,JP,DATA,DCT,CAPS,CCT
*
          *          CAP        ELSE
          CAP        IFC        EQ,**DATA*
          *          VFD        30/CT
          *          IFC        NE,**JP**,2
          *          EQ        IP
          *          BSS        0
*
          CAP        ENDIF
*
          CEJ        ENDM
*
          *
          *
          RTLST      MACRO      CT,JP,DATA,DCT,CAPS,CCT
          CT        IFC        EQ,**CT*
          *          VFD        30/1000003B
          CT        ELSE
          *          VFD        30/1000000B+CT
          CT        ENDIF
*
          *          JP        IFC        NE,**JP*
          *          EQ        IP
          *          ELSE
          *          EQ        *+3
          *          ENDIF
*
          *          VFD        30/*+1
          *
          DT        IFC        NE,**DATA*
          DC        IFC        NE,**DCT*
          *          VFD        30/DCT
          *
          DC        ELSE
          *          VFD        30/1
          *          ENDIF
          *          VFD        30/DATA
          DT        ELSE

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+      VFD      60/0
DT      ENDIF
*
*
CP      IFC      NE,**CAPS*
CTC     IFC      NE,**CCT*
+      VFD      30/CCT
CTC     ELSE
+      VFD      30/1
CTC     ENDIF
-      VFD      30/CAPS
CP      ELSE
+      VFD      60/0
CP      ENDIF
*
RTLST   ENDM
*
*
*
LINEIN  MACRO   W
          SX7
          SA7   L INCALL+1
          IF    -DEF,LINCALL
          EXT   L INCALL
          ENRIF
          CEJ   L INCALL,,,W-1,20B
LINEIN  ENDM
*
LINEOUT MACRO   W
          SX7   100
          SA7   W-1
          SX7   W-1
          SX6   20B
          LX6   30
          BX7   Y6+X7
          SA7   L INCALL+2
          SX7   2
          SA7   L INCALL+1
          IF    -DEF,LINCALL
          EXT   L INCALL
          ENRIF
          CEJ   L INCALL
LINEOUT ENDM

```



20 6176000000

+

SB7

B6+0

7170000144

LINEOUT

TTYBUFF

26 0270000000

JP

B7

. RETURN



```

57 0400000016 + 6170000060 + SB7 TYPEIN32 . RETURN
EQ EQ TYPEOUT

*
60 5110000012 X 63710 TYPEIN32 SA1 TTYBUFF+10
SB7 SB7 XT . RESTORE RETURN
61 0400000027 + EQ EQ TYPEIN . RETRY

*
62 5163000006 X 7160000000 TYPEIN4 SA6 PARAM+6+B3 . STORE LAST PARAMETER
SX6 SX6
63 6133000001 0603000062 + SB3 B3+1
LE B3,B0,TYPEIN4 . ZERO PARAM BUFFER
64 0270000000 JP B7 . AND RETURN

*
65 6122000001 TYPEIN5 SB2 B2+1 . BUMP INPUT CHARACTER COUNT
LE B2,B0,TYPEIN51 . SOME LEFT, JUMP
66 54110 20104 SA1 A1 . ELSE GET NEXT INPUT WORD
LX1 LX1
67 20107 6125777767 TYPEIN51 LX1 7
BX2 X0+X1 . GET CHARACTER
SB1 B1+X2 . ADD TO PARAMETER CHARACTER COUNT
70 0610000073 + 7130000055 GE B1,B0,TYPEIN6 . TOO MANY CHARACTERS
SX3 55B . BLANK
71 20606 12663 TYPEIN52 LX6 6
BX6 X4+X3
SX2 X2-1
72 0312000071 + 7222777776 NZ X2,TYPEIN52 . OUTPUT BLANKS
EQ EQ TYPEIN2 . CONTINUE WHEN DONE
73 6110000100 + 76670 TYPEIN6 SB1 TYPEIN8 . TOO MANY CHARACTERS MESSAGE
SX6 B7
74 0400000056 + EQ EQ TYPEIN31 . DO ERROR THING

*
*
75 24171755150116315520 TYPEINA DIS .#TOO MANY PARAMETERS#
100 20012201150524052255 TYPEINB DIS .#PARAMETER > 10 CHARACTERS#

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	66300		SB3	R0	
	0301000116 +		ZR	X1,CONVNUM4	. QUIT ON NULL PARAM
121	15210		* CONVNUM6	X0*X1	. GET CHARACTER
	21106		AX1	S	. REMOVE IT
	7222777744		SX2	X2-1R0	. CONVERT TO NUMBER
122	0332000126 +		NG	X2,CONVNUM5	. JUMP IF NOT OCTAL CHARACTER
	22232		LX2	R3,X2	. POSITION IT
	12662		BX6	X6+X2	. ADD TO OUTPUT
123	23232		AX2	R3,X2	. RE-POSITION
	7222777747		SX2	X2-8	
124	0322000126 +		PL	X2,CONVNUM5	. JUMP IF BAD CHARACTER
	6133000003		SB3	R3+3	. ELSE BUMP SHIFT COUNT
125	0311000121 +		NZ	X1,CONVNUM6	. LOOP
	0400000116 +		EQ	CONVNUM4	. QUIT
			*		
			*		
126	7160000000		CONVNUM5	R0	. RETURN 0 IF BAD INPUT CHARACTER
	0400000116 +		SX6	CONVNUM4	. RETURN
			EQ		
			*		
			*		
127	6130000000		CONVNUM7	R0	. SHIFT COUNTER
	6100000000		SB0	R0	. FILLED
130	5120000136 +		SA2	TENTH	. CONSTANT
	27301		PX3	X1	. FLOAT INPUT NUMBER
	40032		FX0	X3+X2	. TIMES ONE TENTH
131	26100		UX1	X0	. REPLACE ORIGINAL NUMBER
	36011		IX0	X1+X1	
	10211		BX2	X1	
	20203		LX2	3	
132	36220		IX2	X2+X0	. QUOTIENT TIMES 10
	37232		IX2	X3-X2	. REMAINDER IN LOW ORDER BITS
	7222000033		SX2	X2+1R0	. CHARACTER
133	22232		LX2	R3,X2	. POSITION IT
	6133000006		SB3	R3+6	
	12662		BX6	X6+X2	. ADD TO OUTPUT
134	0311000130 +		NZ	X1,CONVNUM7+1	. LOOP IF MORE DIGITS
	7123777703		SX2	R3-60	. SET UP FOR TEST
135	0400000111 +		EQ	CONVNUM2	. AND CHAR FILL AND QUIT
			*		
136	1717063146314632	TENTH	DATA	1717063146314632	. ONE TENTH (CONSTANT)

3

```

MACRO
BASE
IFC
VFD
ELSE
VFD
ENDIF
BASE
ENDM
  
```

137 + TRANSTB EQU

	*INDEX	EQU	BCD,DISPLAY(FR BCD),ASCII,DISPLAY(FR ASCII)
137	00016000630000500055	00	= 16,1,5,( )
140	00061000340004100063	01	= 61,1,41,(:)
141	00062000350004200071	02	= 62,2,42,+
142	00063000360004300060	03	= 63,3,43,=
143	00064000370004400053	04	= 64,4,44,\$
144	00065000400004500000	05	= 65,40,45,0,X
145	00066000410004600067	06	= 66,6,46,^
146	00067000420004700064	07	= 67,42,47,64,EXC
147	00070000430004800051	10	= 70,43,50,51,EXC
150	00071000440004900052	11	= 71,9,51,( )
151	0004100033000400047	12	= 41,0,52,*
152	00042000540004100045	13	= 42,=,53,+
153	00043000540004200056	14	= 43,=,54,( )
154	00044000630004300046	15	= 44,!,55,-
155	00045000000004600057	16	= 45,0,56,57,X
156	00046000610004700050	17	= 46,[,57,/
157	00047000550004800033	20	= 47,( ),60,0
160	00050000500004100034	21	= 50,/61,1
161	00051000230004200035	22	= 51,S,62,2
162	00022000240004300036	23	= 22,T,63,3
163	00023000250004400037	24	= 23,U,64,4
164	00024000260004500040	25	= 24,V,65,5
165	00025000270004600041	26	= 25,W,66,6
166	00026000300004700042	27	= 26,X,67,7
167	00027000310004800043	30	= 27,Y,70,8
170	00030000320004900044	31	= 30,Z,71,9
171	00031000620007200063	32	= 31,1,72,:
172	0001200056000200077	33	= 12,56,20,77,X
173	00001000510002100072	34	= 1,51,21,72,EXC
174	00002000650002200054	35	= 2,65,22,54,EXC
175	00003000600002300073	36	= 3,=,23,>
176	00004000670002400075	37	= 04,^,24,2
177	00005000460002500066	40	= 05,=,25,v

200	00006000120002600001	41	=	06,J,26,A
201	00007000130002700002	42	=	07,K,27,B
202	00010000140003000003	43	=	10,L,30,C
203	00011000150003100004	44	=	11,M,31,D
204	00060000160003300005	45	=	00,N,13,E
205	00040000170001500006	46	=	00,O,15,F
206	00054000200001200007	47	=	04,P,12,G
207	00021000210001700010	50	=	10,Q,17,H
210	00034000220001000011	51	=	04,R,10,I
211	00074000740001100012	52	=	04,S,11,J
212	00053000530000400013	53	=	03,T,5,K
213	00013000470003500014	54	=	03,U,35,L
214	00020000700000000015	55	=	00,V,0,M
215	00033000710001400016	56	=	03,W,14,N
216	00073000730001600017	57	=	03,X,16,O
217	00036000450000300020	60	=	06,Y,03,P
220	00017000010007300021	61	=	07,Z,73,Q
221	0003200020007500022	62	=	08,0,75,R
222	0000000030003200023	63	=	00,C,32,S
223	00014000040000700024	64	=	04,D,07,T
224	00035000050007700025	65	=	05,E,77,U
225	00052000060007400026	66	=	05,F,74,V
226	00037000070006600027	67	=	07,G,06,W
227	00055000100007600030	70	=	05,H,76,X
230	00056000110002200031	71	=	05,I,02,Y
231	00072000720003400032	72	=	02,K,34,Z
232	00057000570003600061	73	=	07,L,36,0
233	0001500052000100074	74	=	05,M,01,1
234	00075000750003700062	75	=	05,N,37,2
235	0007600066000400070	76	=	06,V,40,3
236	00077000770003300065	77	=	77,77,33,65,EXC
237	0000000000000000064	100	=	00,0,0,64,EXC
240	00000000330000000001	101	=	00,0,0,A
241	00000000330000000002	102	=	00,0,0,B
242	00000000330000000003	103	=	00,0,0,C
243	00000000330000000004	104	=	00,0,0,D
244	00000000330000000005	105	=	00,0,0,E
245	00000000330000000006	106	=	00,0,0,F
246	00000000330000000007	107	=	00,0,0,G
247	00000000330000000010	110	=	00,0,0,H
250	00000000330000000011	111	=	00,0,0,I
251	00000000330000000012	112	=	00,0,0,J
252	00000000330000000013	113	=	00,0,0,K
253	00000000330000000014	114	=	00,0,0,L
254	00000000330000000015	115	=	00,0,0,M
255	00000000330000000016	116	=	00,0,0,N
256	00000000330000000017	117	=	00,0,0,O
257	00000000330000000020	120	=	00,0,0,P
260	00000000330000000021	121	=	00,0,0,Q
261	00000000330000000022	122	=	00,0,0,R
262	00000000330000000023	123	=	00,0,0,S
263	00000000330000000024	124	=	00,0,0,T
264	00000000330000000025	125	=	00,0,0,U

. 77,77, 00

265	0000000330000000026	126	=	0*0*0,V
266	0000000330000000027	127	=	0*0*0,W
267	0000000330000000030	130	=	0*0*0,X
270	0000000330000000031	131	=	0*0*0,Y
271	0000000330000000032	132	=	0*0*0,Z
272	0000000330000000055	133	=	0*0*0,(
273	0000000330000000055	134	=	0*0*0,( )
274	0000000330000000052	135	=	0*0*0,)
275	0000000330000000055	136	=	0*0*0,( )
276	0000000330000000055	137	=	0*0*0,( )

\*  
\*

277

END

35220

STORAGE USED  
6600 ASSEMBLY

978 STATEMENTS  
4.835 SECONDS

36 SYMBOLS  
92 REFERENCES

TSS DISK SYSTEM.....LOAD/DUMP/RECOVER.....TTY IO  
ERROR DIRECTORY.

COMPASS - VER 2.

08/19/71 17.20.45.

PAGE 13

3 TYPE ERROR            DUPLICATE MACRO DEFINITION. NEW ONE OVERRIDES.  
OCCURRED ON PAGES            10

