


```
TTTTTTTTT1  RRRRRRRR  AAAAAA  CCCCCCCC  EEEEEEEEEE
TTTTTTTTTT  RRRRRRRR  AAAAAA  CCCCCCCC  EEEEEEEEEE
TT          RR      RR  AA      AA  CC          EE
TT          RR      RR  AA      AA  CC          EE
TT          RR      RR  AA      AA  CC          EE
TT          RR      RR  AA      AA  CC          EE
TT          RRRRRRRR  AA      AA  CC          EEEEEEEEE
TT          RRRRRRRR  AA      AA  CC          EEEEEEEEE
TT          RR  RR    AAAAAAAAAA  CC          EE
TT          RR  RR    AAAAAAAAAA  CC          EE
TT          RR      RR  AA      AA  CC          EE
TT          RR      RR  AA      AA  CC          EE
TT          RR      RR  AA      AA  CCCCCCCC  EEEEEEEEEE
TT          RR      RR  AA      AA  CCCCCCCC  EEEEEEEEEE
```

```
MM      MM      AAAAAA  PPPPPPPP
MM      MM      AAAAAA  PPPPPPPP
MMMM    MMMM  AA      AA  PP      PP
MMMM    MMMM  AA      AA  PP      PP
MM  MM  MM  AA      AA  PP      PP
MM  MM  MM  AA      AA  PP      PP
MM      MM  AA      AA  PPPPPPPP
MM      MM  AA      AA  PPPPPPPP
MM      MM  AAAAAAAAAA  PP
MM      MM  AAAAAAAAAA  PP
MM      MM  AA      AA  PP
MM      MM  AA      AA  PP
MM      MM  AA      AA  PP
MM      MM  AA      AA  PP
```

```

+-----+
. Object Module Synopsis !
+-----+

```

Module Name	Ident	Bytes	File	Creation Date	Creator
TBKSTART	V04-000	81	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-SEP-1984 02:12	VAX/VMS Macro V04-00
TBKBAS	V04-000	635	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-Sep-1984 02:12	VAX-11 Bliss-32 V4.0-742
TBKDPC	V04-000	849	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-Sep-1984 02:13	VAX-11 Bliss-32 V4.0-742
TBKINT	V04-000	461	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-Sep-1984 02:15	VAX-11 Bliss-32 V4.0-742
TBKSSV	V04-000	567	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-Sep-1984 02:16	VAX-11 Bliss-32 V4.0-742
TBKSTO	V04-000	304	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-Sep-1984 02:17	VAX-11 Bliss-32 V4.0-742
TBKSYM	V04-000	469	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-Sep-1984 02:18	VAX-11 Bliss-32 V4.0-742
TRACMSG	0	42	-\$255\$DUA28:[TRACE.OBJ]TRACE.OLB;1	16-SEP-1984 02:11	VAX-11 Message V04-00
SYS\$P1_VECTOR	V04-000	0	-\$255\$DUA28:[SYSLIB]STARLET.OLB;2	16-SEP-1984 00:40	VAX/VMS Macro V04-00

! Image Section Synopsis !

Cluster	Type	Pages	Base Addr	Disk VBN	PFC	Protection and Paging	Global Sec. Name	Match	Majorid	Minorid
DEFAULT_CLUSTER	3	6	00000000	2	0	READ ONLY				
	4	2	00000C00	8	0	READ WRITE	COPY ON REF			
	4	1	P-00001000	10	0	READ WRITE	COPY ON REF			

Key for special characters above:

: R - Relocatable :
: P - Protected :

! Program Section Synopsis !

Psect Name	Module Name	Base	End	Length	Align	Attributes
\$TBK\$ABS_ZERO	TBKSTART	00000000	0000000B	0000000C (	12.) LONG 2	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
		00000000	0000000B	0000000C (	12.) LONG 2	
TBK\$CODE	TBKSTART	0000000C	00000A1F	00000A14 (	2580.) BYTE 0	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	TBKBAS	0000000C	00000050	00000045 (	69.) BYTE 0	
	TBKDPC	00000051	00000211	000001C1 (	449.) BYTE 0	
	TBKINT	00000212	00000526	00000315 (	789.) BYTE 0	
	TBKSSV	00000527	0000064F	00000129 (	297.) BYTE 0	
	TBKSYM	00000650	0000084A	000001FB (	507.) BYTE 0	
		0000084B	00000A1F	000001D5 (	469.) BYTE 0	
TBK\$PLIT	TBKBAS	00000A20	00000B19	000000FA (	250.) BYTE 0	PIC,USR,CON,REL,LCL, SHR, EXE, RD,NOWRT,NOVEC
	TBKINT	00000A20	00000AD9	000000BA (	186.) BYTE 0	
	TBKSSV	00000ADA	00000ADD	00000004 (	4.) BYTE 0	
		00000ADE	00000B19	0000003C (	60.) BYTE 0	
TBK\$GLOBAL	TBKSTART	00000C00	00000D2F	00000130 (	304.) LONG 2	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
	TBKSTO	00000C00	00000C00	00000000 (	0.) LONG 2	
		00000C00	00000D2F	00000130 (	304.) LONG 2	
TBK\$OWN	TBKDPC	00000D30	00000E0B	000000DC (	220.) LONG 2	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
	TBKINT	00000D30	00000D6B	0000003C (	60.) LONG 2	
		00000D6C	00000E0B	000000A0 (	160.) LONG 2	
MSGPTR\$AAAAAAA	TRACMSG	00001000	0000100F	00000010 (	16.) LONG 2	PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001000	0000100F	00000010 (	16.) LONG 2	
MSGPTR\$AAAAAAB	TRACMSG	00001010	00001013	00000004 (	4.) LONG 2	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001010	00001013	00000004 (	4.) LONG 2	
MSGPTR\$AAAAAAC	TRACMSG	00001014	00001017	00000004 (	4.) LONG 2	PIC,USR,OVR,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001014	00001017	00000004 (	4.) LONG 2	
MSGPTR\$SECTION	TRACMSG	00001018	00001029	00000012 (	18.) BYTE 0	PIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT, VEC
		00001018	00001029	00000012 (	18.) BYTE 0	

! Symbol Cross Reference !

Symbol	Value	Defined By	Referenced By ...
BEGINHERE	0000000C-R	TBKSTART	
SYSS\$CRMPSC	7FFED7E78	SYSSP1_VECTOR	TBKINT
SYSS\$EXIT	7FFED7F40	SYSSP1_VECTOR	TBKBAS
SYSS\$FAOL	7FFED7F58	SYSSP1_VECTOR	TBKSSV TBKSTART
SYSS\$PUT	7FFEE188	SYSSP1_VECTOR	TBKSSV
SYSS\$PUTMSG	7FFEE0E0	SYSSP1_VECTOR	TBKSSV
SYSS\$TRNLOG	7FFEE058	SYSSP1_VECTOR	TBKSSV
SYSS\$WAIT	7FFEE1A8	SYSSP1_VECTOR	TBKSSV
TBK\$CP_OUT_STR	00000C88-R	TBKSTO	TBKSSV
TBK\$C_ALL	00000009	TRACMSG	
TBK\$C_BREAK	00000002	TRACMSG	
TBK\$C_CANCEL	00000005	TRACMSG	
TBK\$C_EXAMINE	00000006	TRACMSG	
TBK\$C_LANGUAGE	00000004	TRACMSG	
TBK\$C_MODE	00000000	TRACMSG	
TBK\$C_MODULE	0000000C	TRACMSG	
TBK\$C_OVERRIDE	00000007	TRACMSG	
TBK\$C_READ	0000000F	TRACMSG	
TBK\$C_SET_BREAK	00000003	TRACMSG	
TBK\$C_SET_RESIG	0000000A	TRACMSG	
TBK\$C_SET_SCOPE	0000000B	TRACMSG	
TBK\$C_SET_TRALL	00000008	TRACMSG	
TBK\$C_SPOS_EIGH	00000010	TRACMSG	
TBK\$C_SPOS_FIVE	0000000A	TRACMSG	
TBK\$C_SPOS_FOUR	00000008	TRACMSG	
TBK\$C_SPOS_NINE	00000012	TRACMSG	
TBK\$C_SPOS_ONE	00000002	TRACMSG	
TBK\$C_SPOS_SEVE	0000000E	TRACMSG	
TBK\$C_SPOS_SIX	0000000C	TRACMSG	
TBK\$C_SPOS_THRE	00000006	TRACMSG	
TBK\$C_SPOS_TWO	00000004	TRACMSG	
TBK\$C_SPOS_ZERO	00000000	TRACMSG	
TBK\$C_STELMSIZE	00000002	TRACMSG	
TBK\$C_TRACE	00000001	TRACMSG	
TBK\$C_TRACEBACK	0000000D	TRACMSG	
TBK\$C_WATCH	0000000E	TRACMSG	
TBK\$DD_TRACEB	00000051-R	TBKBAS	TBKSTART
TBK\$FARE_MSG	00000716-R	TBKSSV	TBKBAS
TBK\$FAO_OUT	00000650-R	TBKSSV	TBKDPC TBKINT
TBK\$FAO_PUT	00000784-R	TBKSSV	TBKBAS
TBK\$FIND_DST	00000527-R	TBKINT	TBKBAS
TBK\$GET_DST_REC	000005E7-R	TBKINT	TBKDPC TBKSYM
TBK\$GET_NXT_DST	0000060D-R	TBKINT	TBKDPC TBKSYM
TBK\$GL_BUF_SIZ	00000C8C-R	TBKSTO	TBKSSV
TBK\$GL_ERRRAB	00000CEC-R	TBKSTO	TBKSSV
TBK\$GL_EXC_TYPE	00000C00-R	TBKSTO	TBKBAS TBKSYM
TBK\$GL_LINE	00000C9C-R	TBKSTO	TBKBAS TBKSYM
TBK\$GL_OUTPRAB	00000CA8-R	TBKSTO	TBKBAS TBKSSV
TBK\$GL_STMT	00000C98-R	TBKSTO	TBKBAS TBKSYM

...
E

Symbol	Value	Defined By	Referenced By ...
TBK\$IO_SETUP	000007CF-R	TBKSSV	TBKBAS
TBK\$MODULE_CS	00000C90-R	TBKSTO	TBKBAS TBKSYM
TBK\$MODULE_DST	00000CA4-R	TBKSTO	TBKBAS TBKDPC TBKSYM
TBK\$OUTPUT_BUF	00000C04-R	TBKSTO	TBKSSV
TBK\$OUT_PUT	000006ED-R	TBKSSV	TBKBAS
TBK\$PC_TO_LINE	00000212-R	TBKDPC	TBKSYM
TBK\$POSITION_DST	0000061D-R	TBKINT	TBKDPC TBKSYM
TBK\$PUT_MSG	00000742-R	TBKSSV	TBKBAS
TBK\$REL_PC	00000CA0-R	TBKSTO	TBKBAS TBKSYM
TBK\$ROUTINE_CS	00000C94-R	TBKSTO	TBKBAS TBKSYM
TBK\$SYMBOLIZE	0000084B-R	TBKSYM	TBKBAS
TBK\$_BADBUG	00098190	TRACMSG	
TBK\$_BADDST	0009800B	TRACMSG	
TBK\$_BADDSTMAP	000981B0	TRACMSG	
TBK\$_BADDSTVBN	00098013	TRACMSG	
TBK\$_BADEXE	00098322	TRACMSG	
TBK\$_BADEXELLO	0009801B	TRACMSG	
TBK\$_BADEXERAB	0009832A	TRACMSG	
TBK\$_BADHDR	00098023	TRACMSG	
TBK\$_BADSTACK	000984BC	TRACMSG	
TBK\$_INVDSTREC	00098332	TRACMSG	
TBK\$_NOCALLS	0009802B	TRACMSG	
TBK\$_NOIOCHAN	000984B4	TRACMSG	
TBK\$_NORMAL	00098001	TRACMSG	
TBK\$_NOSPACE	000981A8	TRACMSG	
TBK\$_RST_BEGIN	7FFF0000	TBKSTO	
TBK\$_STACKDUMP	000981A0	TRACMSG	
TBK\$_TBKBUG	00098033	TRACMSG	
TBK\$_TRACEBACK	00098198	TRACMSG	
TRACES\$_FACILITY	00000009	TRACMSG	

! Symbols By Value !

Value	Symbols...
00000000	TBK\$C_MODE
00000001	TBK\$C_TRACE
00000002	TBK\$C_BREAK
00000003	TBK\$C_SET_BREAK
00000004	TBK\$C_LANGUAGE
00000005	TBK\$C_CANCEL
00000006	TBK\$C_EXAMINE
00000007	TBK\$C_OVERRIDE
00000008	TBK\$C_SET_TRALL
00000009	TBK\$C_ALL
0000000A	TBK\$C_SET_RESIG
0000000B	TBK\$C_SET_SCOPE
0000000C	R-BEGINHERE
0000000D	TBK\$C_TRACEBACK
0000000E	TBK\$C_SPOS_SEVE
0000000F	TBK\$C_READ
00000010	TBK\$C_SPOS_EIGH
00000012	TBK\$C_SPOS_NINE
00000051	R-TBK\$DO_TRACEB
00000212	R-TBK\$PC_TO_LINE
00000527	R-TBK\$FIND_DST
000005E7	R-TBK\$GET_DST_REC
0000060D	R-TBK\$GET_NXT_DST
0000061D	R-TBK\$POSITON_DST
00000650	R-TBK\$FAO_OUT
000006ED	R-TBK\$OUT_PUT
00000716	R-TBK\$FAKE_MSG
00000742	R-TBK\$PUT_MSG
00000784	R-TBK\$FAO_PUT
000007CF	R-TBK\$IO_SETUP
0000084B	R-TBK\$SYMBOLIZE
00000C00	R-TBK\$GL_EXC_TYPE
00000C04	R-TBK\$OUTPUT_BUF
00000C88	R-TBK\$CP_OUT_STR
00000C8C	R-TBK\$GL_BUF_SIZ
00000C90	R-TBK\$MODULE_CS
00000C94	R-TBK\$ROUTINE_CS
00000C98	R-TBK\$GL_STMT
00000C9C	R-TBK\$GL_LINE
00000CA0	R-TBK\$REC_PC
00000CA4	R-TBK\$MODULE_DST
00000CAB	R-TBK\$GL_OUTPRAB
00000CEC	R-TBK\$GL_ERRRAB
00098001	TBK\$_NORMAL
00098008	TBK\$_BADDST
00098013	TBK\$_BADDSTVBN
00098018	TBK\$_BADEXECLO
00098023	TBK\$_BADHDR
0009802B	TBK\$_NOCALLS
	TBK\$C_SPOS_ZERO
	TBK\$C_SPOS_ONE
	TBK\$C_STELMSIZE
	TBK\$C_SPOS_TWO
	TBK\$C_SPOS_THRE
	TBK\$C_SPOS_FOUR
	TRACE\$ FACILITY
	TBK\$C_SPOS_FIVE
	TBK\$C_MODULE
	TBK\$C_SPOS_SIX
	TBK\$C_WATCH

Value -----	Symbols... -----
00098033	TBK\$_TBKBUG
00098190	TBK\$_BADBUG
00098198	TBK\$_TRACEBACK
000981A0	TBK\$_STACKDUMP
000981A8	TBK\$_NOSPACE
000981B0	TBK\$_BADDSTMAP
00098322	TBK\$_BADEXE
0009832A	TBK\$_BADEXERAB
00098332	TBK\$_INVDSTREC
000984B4	TBK\$_NOIOCHAN
000984BC	TBK\$_BADSTACK
7FFEDE78	SYSS\$CRMPSC
7FFEDF40	SYSS\$EXIT
7FFEDF58	SYSS\$FAOL
7FFEE058	SYSS\$TRNLOG
7FFEE0E0	SYSS\$PUTMSG
7FFEE188	SYSS\$PUT
7FFEE1A8	SYSS\$WAIT
7FFF0000	TBK\$_RST_BEGIN

Key for special characters above:

```

+-----+
| * - Undefined |
| U - Universal  |
| R - Relocatable|
| X - External   |
+-----+

```

+-----+
! Image Synopsis !
+-----+

Virtual memory allocated: 00000000 000011FF 00001200 (4608. bytes, 9. pages)
 Stack size: 0. pages
 Image header virtual block limits: 1. (1. block)
 Image binary virtual block limits: 2. (9. blocks)
 Image name and identification: TRACE V04-000
 Number of files: 3.
 Number of modules: 9.
 Number of program sections: 12.
 Number of global symbols: 79.
 Number of cross references: 135.
 Number of image sections: 3.
 User transfer address: 0000000C
 Image type: NOPIC, SHAREABLE. Global Section Match=EQUAL, Ident, Major=18, Minor=15040013
 Map format: FULL WITH CROSS REFERENCE in file _\$255\$DUA28:[TRACE.LIS]TRACE.MAP;1
 Estimated map length: 47. blocks

+-----+
! Link Run Statistics !
+-----+

Performance Indicators	Page Faults	CPU Time	Elapsed Time
Command processing:	117	00:00:00.23	00:00:01.13
Pass 1:	103	00:00:00.67	00:00:05.55
Allocation/Relocation:	26	00:00:00.17	00:00:01.80
Pass 2:	37	00:00:00.32	00:00:02.38
Map data after object module synopsis:	24	00:00:00.61	00:00:00.78
Symbol table output:	5	00:00:00.05	00:00:01.13
Total run values:	312	00:00:02.05	00:00:12.77

Using a working set limited to 900 pages and 77 pages of data storage (excluding image)

Total number object records read (both passes): 326
of which 163 were in libraries and 39 were DEBUG data records containing 2336 bytes

Number of modules extracted explicitly = 8
with 1 extracted to resolve undefined symbols

7 library searches were for symbols not in the library searched

A total of 4 global symbol table records was written

LINK/USERLIB=PROC/NOSYSSHR/NOTRACE/SHARE=EXES:TRACE/MAP=MAPS:TRACE/CROSS/FULL LIBS:TRACE/INCLUDE=(TBKSTART,TBKBAS,TBKDPC,TBKINT,TBKS
SV,TBKSTO,TBKSYM,TRACMSG),SYSS\$INPUT/OPTION
BASE=0

This image displays a grid of 100 small, faded screenshots of various VAX/VMS system utilities and diagnostic tools. The screenshots are arranged in a 10x10 grid. Some of the visible titles and content include:

- TRACEMSG MDL**: A utility for tracing messages.
- TRACE**: A utility for tracing system events.
- TRACE MAP**: A utility for tracing system events with a map.
- STRUCDEF REQ**: A utility for requesting structure definitions.
- TBKLIB REQ**: A utility for requesting tape backup libraries.
- TBKPROLOG REQ**: A utility for requesting tape backup prologues.
- STRUCDEF LIS**: A utility for listing structure definitions.
- TBKDST REQ**: A utility for requesting tape backup destinations.

The screenshots are mostly illegible due to fading, but they represent a comprehensive set of system utilities for VAX/VMS.