



TTTTTTTTT	555555555	888888	88888888	000000	000000	TTTTTTTTT	IIIIII	000000	
TTTTTTTTT	555555555	888888	88888888	000000	000000	TTTTTTTTT	IIIIII	000000	
TT	55	88	88	00	00	TT	II	00	00
TT	55	88	88	00	00	TT	II	00	00
TT	55555	88	88	00	00	TT	II	00	00
TT	55555	88	88	00	00	TT	II	00	00
TT		888888	88888888	00	00	TT	II	00	00
TT		888888	88888888	00	00	TT	II	00	00
TT		88	88	00	00	TT	II	00	00
TT		88	88	00	00	TT	II	00	00
TT	55	88	88	00	00	TT	II	00	00
TT	55	88	88	00	00	TT	II	00	00
TT	55555	888888	88888888	000000	000000	TT	IIIIII	000000	....
TT	55555	888888	88888888	000000	000000	TT	IIIIII	000000	....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS

(2) 49  
(3) 55

Declarations  
FIL\$READ\_LBN - Reads 1 LBN of data from TU58 cartridge

```

0000 1      .TITLE T58BOOT10 - BOO 58 I/O Module
0000 2      .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :++
0000 29 :
0000 30 : FACILITY:
0000 31 :
0000 32 :     BOOT58, the supplementary TU58 bootstrap program
0000 33 :
0000 34 : ABSTRACT:
0000 35 :
0000 36 :     This module calls the device-dependent ROM subroutine to read
0000 37 :     a block's worth of data from the TU58 into physical memory.
0000 38 :
0000 39 : ENVIRONMENT:
0000 40 :
0000 41 :     Kernel mode, unmapped, IPL=31
0000 42 :
0000 43 : AUTHOR:
0000 44 :
0000 45 :     Carol Peters    23 February 1979
0000 46 :
0000 47 :--

```

T58BOOT10  
V04-000

- BOOT58 I/O Module  
Declarations

D 14

16-SEP-1984 00:15:51 VAX/VMS Macro V04-00  
4-SEP-1984 23:07:30 [BOOTS.SRC]T58BOOT10.MAR;1

Page 2  
(2)

0000 49  
0000 50  
00000000 51  
0000 52  
0000 53

.SBTTL Declarations  
.PSECT \$\$\$\$00BOOT LONG  
.DEFAULT DISPLACEMENT, WORD

```

0000 55      .SBTTL  FIL$READ_LBN - Reads 1 LBN of data from TU58 cartridge
0000 56
0000 57      :++
0000 58      :
0000 59      : Functional description:
0000 60      :
0000 61      :     This routine reads the data from a specified LBN on the TU58
0000 62      :     cartridge into a page of physical memory. The device handling
0000 63      :     is a subroutine in the device ROM.
0000 64      :
0000 65      : Inputs:
0000 66      :
0000 67      :     LBN(AP) - logical block number to read
0000 68      :     BUF(AP) - address of memory to receive data
0000 69      :
0000 70      : Implicit inputs:
0000 71      :
0000 72      :     DRIVER_SUBROUT - contains the address of the ROM subroutine
0000 73      :
0000 74      : Outputs:
0000 75      :
0000 76      :     R0      - status code
0000 77      :
0000 78      :--
0000 79      :
0000 80      :
0000 81      : Symbolic names for input arguments.
0000 82      :
0000 83      :
00000004 0000 84      LBN      = 4
00000008 0000 85      BUF      = 8
0000 86      :
0000 87      .ENTRY  FIL$READ_LBN,-
0002 88      ^M<R3,R4,R5,R6,R7,R8,R9>
0002 89
0002 90      CLRL   R3                ; Device must be unit 0.
58  04 AC D0 0004 91      MOVL   LBN(AP),R8          ; Get starting LBN.
0000 92      PUSHL  BUF(AP)          ; Get memory address for data.
50  0000 CF D0 0008 93      MOVL   DRIVER_SUBROUT,R0      ; Get address of driver routine..
0000 94      JSB   (R0)             ; Call driver.
0000 95      TSTL  (SP)+           ; Pop memory address off stack.
0000 96      RET
0015 97
0015 98      .END
  
```

T58BOOTIO  
Symbol table

- BOOTSR I/O Module

F 14

16-SEP-1984 00:15:51 VAX/VMS Macro V04-00  
4-SEP-1984 23:07:30 [BOOTS.SRC]T58BOOTIO.MAR;1

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(3)

BUF = 00000008  
DRIVER SUBROUT \*\*\*\*\* X 01  
FIL\$READ\_LBN 00000000 RG 01  
LBN = 00000004

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$\$\$00BC0T	00000015 ( 21.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.06	00:00:00.95
Command processing	132	00:00:00.77	00:00:02.63
Pass 1	71	00:00:00.35	00:00:01.14
Symbol table sort	0	00:00:00.00	00:00:00.01
Pass 2	37	00:00:00.23	00:00:00.67
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	1	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	275	00:00:01.44	00:00:05.42

The working set limit was 750 pages.  
1020 bytes (2 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 4 non-local and 0 local symbols.  
98 source lines were read in Pass 1, producing 14 object records in Pass 2.  
0 pages of virtual memory were used to define 0 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[BOOTS.OBJ]BOOTS.MLB;1	0
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0
TOTALS (all libraries)	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:T58BOOTIO/OBJ=OBJ\$:T58BOOTIO MSRC\$:T58BOOTIO/UPDATE=(ENH\$:T58BOOTIO)+EXECML\$/LIB+LIB\$:BOOTS.MLB/LIB



0041 AH-BT13A-SE  
VAX/VMS V4.0

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[The main body of the image contains a dense grid of faint, illegible text, likely representing a system log or diagnostic output. Several labels are clearly visible, including 'SYSGENMN LIS' at approximately [200, 640, 235, 685], 'UMB LIS' at [380, 750, 415, 785], 'SYSGEN LIS' at [555, 245, 590, 280], 'SYSGEN.MD LIS' at [615, 415, 650, 465], 'SYSGETSTR LIS' at [555, 700, 590, 745], 'SYSGETRM LIS' at [675, 640, 710, 685], and '58800110 LIS' at [790, 705, 825, 750].]