



```
LL      000000  CCCCCCCC  KK      KK  DDDDDDDD  BBBB88888
LL      000000  CCCCCCCC  KK      KK  DDDDDDDD  BBBB88888
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KKKKKK  DD      DD  BBBB88888
LL      00      00  CC      CC      KKKKKK  DD      DD  BBBB88888
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LL      00      00  CC      CC      KK      KK  DD      DD  BB      BB
LLLLLLLLLLLL  000000  CCCCCCCC  KK      KK  DDDDDDDD  BBBB88888
LLLLLLLLLLLL  000000  CCCCCCCC  KK      KK  DDDDDDDD  BBBB88888
                                     ....
                                     ....
                                     ....
                                     ....
```

```
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
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS
```

```

0000 1 .TITLE LOCKDB - LOCK AND UNLOCK I/O DATA BASE
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5
0000 6
0000 7 *****
0000 8 *
0000 9 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0000 25 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0000 26 *****
0000 27
0000 28 ++
0000 29
0000 30 FACILITY: DISMOUNT SYSTEM SRVICE
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 THESE ROUTINES LOCK AND UNLOCK THE I/O DATA BASE MUTEX.
0000 35 NEEDLESS TO SAY, THEY MUST BE CALLED IN KERNEL MODE.
0000 36
0000 37 ENVIRONMENT:
0000 38
0000 39 STARLET OPERATING SYSTEM, INCLUDING PRIVILEGED SYSTEM SERVICES
0000 40 AND INTERNAL EXEC ROUTINE.
0000 41
0000 42 --
0000 43
0000 44 AUTHOR: ANDREW C. GOLDSTEIN, CREATION DATE: 29-APR-1977 15:31
0000 45
0000 46 MODIFIED BY:
0000 47
0000 48 V03-002 TMK0001 Todd M. Katz 27-Apr-1983
0000 49 Modify LOCK_LNM to lock the logical name mutex for reading
0000 50 by calling [NMSLOCKR. Modify UNLOCK_LNM to unlock the logical
0000 51 name mutex by calling LNMSUNLOCK.
0000 52
0000 53 V03-001 RAS0168 Ron Schaefer 12-Jul-1983
0000 54 Add routines to lock and unlock the LNM mutex.
0000 55 This mutex is only processed when the I/O mutex is held as well.
0000 56
0000 57 V02-001 ACG0248 Andrew C. Goldstein, 31-Dec-1981 13:55

```

```
0000 58 : Modify for use in DISMOUNT
0000 59 :
0000 60 :
0000 61 :
0000 62 :**
0000 63 :
0000 64 :
0000 65 $PRDEF ; DEFINE PROCESOR REGISTER NUMBERS
0000 66
00000000 67 .PSECT Z$DISMOUNT,NOWRT,SHR,PIC
```

```

0000 69 :++
0000 70 :
0000 71 : FUNCTIONAL DESCRIPTION:
0000 72 :
0000 73 :     THIS ROUTINE LOCKS THE I/O DATA BASE MUTEX.
0000 74 :
0000 75 : CALLING SEQUENCE:
0000 76 :     CALL LOCK_IODB ( )
0000 77 :
0000 78 : INPUT PARAMETERS:
0000 79 :     NONE
0000 80 :
0000 81 : IMPLICIT INPUTS:
0000 82 :     NONE
0000 83 :
0000 84 : OUTPUT PARAMETERS:
0000 85 :     NONE
0000 86 :
0000 87 : IMPLICIT OUTPUTS:
0000 88 :     NONE
0000 89 :
0000 90 : ROUTINE VALUE:
0000 91 :     NONE
0000 92 :
0000 93 : SIDE EFFECTS:
0000 94 :     I/O DATA BASE MUTEX LOCKED
0000 95 :
0000 96 :--
0000 97 :
0000 98 LOCK_IODB::
50 00000000'9F 003C 0000 99      .WORD    ^M<R2,R3,R4,R5>      ; SAVE REGISTERS
54 00000000'9F  D0 0002 100     MOVAL   @#IOC$GL_MUTEX,R0      ; GET I/O DATA BASE MUTEX
    00000000'9F  16 0009 101     MOVL   @#SCH$GL_CURPCB,R4     ; GET OWN PCB ADDRESS
    00000000'9F  04 0010 102     JSB    @#SCH$LOCKW           ; AND LOCK IT
    0016 103     RET

```

```

0017 105 :++
0017 106 :
0017 107 : FUNCTIONAL DESCRIPTION:
0017 108 :
0017 109 :     THIS ROUTINE UNLOCKS THE I/O DATA BASE MUTEX.
0017 110 :
0017 111 : CALLING SEQUENCE:
0017 112 :     CALL UNLOCK_IODB ( )
0017 113 :
0017 114 : INPUT PARAMETERS:
0017 115 :     NONE
0017 116 :
0017 117 : IMPLICIT INPUTS:
0017 118 :     NONE
0017 119 :
0017 120 : OUTPUT PARAMETERS:
0017 121 :     NONE
0017 122 :
0017 123 : IMPLICIT OUTPUTS:
0017 124 :     NONE
0017 125 :
0017 126 : ROUTINE VALUE:
0017 127 :     NONE
0017 128 :
0017 129 : SIDE EFFECTS:
0017 130 :     I/O DATA BASE MUTEX UNLOCKED
0017 131 :     IPL LOWERED TO 0
0017 132 :
0017 133 :--
0017 134 :
0017 135 UNLOCK_IODB::
0017 136     .WORD     ^M<R2,R3,R4,R5>           ; SAVE REGISTERS
50 00000000'9F 003C 0017 137     MOVAL     @#IOC$GL_Mutex,R0       ; GET I/O DATA BASE MUTEX
54 00000000'9F 00 0019 138     MOVL     @#SCH$GL_CURPCB,R4      ; AND OWN PCB ADDRESS
00000000'9F 16 0020 139     JSB     @#SCH$UNLOCK                ; AND UNLOCK IT
002D 140     SETIPL  #0                       ; ALSO LOWER IPL
0030 141     RET
0031 142
0031 143

```

```

0031 145 :++
0031 146 :
0031 147 : FUNCTIONAL DESCRIPTION:
0031 148 :
0031 149 :     THIS ROUTINE LOCKS THE LOGICAL NAME DATA BASE MUTEX.
0031 150 :
0031 151 : CALLING SEQUENCE:
0031 152 :     CALL LOCK_LNM ( )
0031 153 :
0031 154 : INPUT PARAMETERS:
0031 155 :     NONE
0031 156 :
0031 157 : IMPLICIT INPUTS:
0031 158 :     NONE
0031 159 :
0031 160 : OUTPUT PARAMETERS:
0031 161 :     NONE
0031 162 :
0031 163 : IMPLICIT OUTPUTS:
0031 164 :     NONE
0031 165 :
0031 166 : ROUTINE VALUE:
0031 167 :     NONE
0031 168 :
0031 169 : SIDE EFFECTS:
0031 170 :     LOGICAL NAME DATA BASE MUTEX LOCKED
0031 171 :
0031 172 :--
0031 173 :
0031 174 LOCK_LNM::
54 00000000'9F 003C 0031 175 .WORD ^M<R2,R3,R4,R5> : SAVE REGISTERS
00000000'9F D0 0033 176 MOVL @#SCH$GL CURPCB,R4 : GET OWN PCB ADDRESS
00000000'9F 16 003A 177 JSB @#LNMSLOCKR : AND LOCK LOGICAL NAME MUTEX
0040 0040 178 RET
    
```

```

0041 180 :++
0041 181 :
0041 182 : FUNCTIONAL DESCRIPTION:
0041 183 :
0041 184 :     THIS ROUTINE UNLOCKS THE LOGICAL NAME DATA BASE MUTEX.
0041 185 :
0041 186 : CALLING SEQUENCE:
0041 187 :     CALL UNLOCK_LNM ( )
0041 188 :
0041 189 : INPUT PARAMETERS:
0041 190 :     NONE
0041 191 :
0041 192 : IMPLICIT INPUTS:
0041 193 :     NONE
0041 194 :
0041 195 : OUTPUT PARAMETERS:
0041 196 :     NONE
0041 197 :
0041 198 : IMPLICIT OUTPUTS:
0041 199 :     NONE
0041 200 :
0041 201 : ROUTINE VALUE:
0041 202 :     NONE
0041 203 :
0041 204 : SIDE EFFECTS:
0041 205 :     LOGICAL NAME DATA BASE MUTEX UNLOCKED
0041 206 :
0041 207 :--
0041 208 :
0041 209 UNLOCK_LNM::
54 00000000'9F 003C 0041 210 .WORD ^M<R2,R3,R4,R5> : SAVE REGISTERS
    00000000'9F D0 0043 211 MOVL @#SCH$GL_CURPCB,R4 : AND OWN PCB ADDRESS
    16 004A 212 JSB @#LNMSUNLOCK : AND UNLOCK LOGICAL NAME MUTEX
    04 0050 213 RET
0051 214
0051 215
0051 216
0051 217 .END

```



LOCKDB  
Symbol table

- LOCK AND UNLOCK I/O DATA BASE

N 7

15-SEP-1984 23:43:11  
5-SEP-1984 00:10:59

VAX/VMS Macro V04-00  
[DISMOU.SRC]LOCKDB.MAR;1

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(5)

IOCSGL_MUTEX	*****	X	02
LNMSLOCKR	*****	X	02
LNMSUNLOCK	*****	X	02
LOCK_IODB	00000000	RG	02
LOCK_LNM	00000031	RG	02
PRS_IPL	= 00000012		
SCHSGL_CURPCB	*****	X	02
SCHSLOCKW	*****	X	02
SCHSUNLOCK	*****	X	02
UNLOCK_IODB	00000017	RG	02
UNLOCK_LNM	00000041	RG	02

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

PSECT name	Allocation	PSECT No.	Attributes										
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE	
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE	
Z\$DISMOUNT	00000051 ( 81.)	02 ( 2.)	PIC USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	BYTE	

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:01.40
Command processing	106	00:00:00.59	00:00:03.55
Pass 1	130	00:00:01.41	00:00:06.58
Symbol table sort	0	00:00:00.08	00:00:00.15
Pass 2	51	00:00:00.56	00:00:02.05
Symbol table output	2	00:00:00.02	00:00:00.02
Fsect synopsis output	2	00:00:00.04	00:00:00.17
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	323	00:00:02.78	00:00:13.94

The working set limit was 1200 pages.  
6108 bytes (12 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 90 non-local and 0 local symbols.  
217 source lines were read in Pass 1, producing 13 object records in Pass 2.  
9 pages of virtual memory were used to define 8 macros.

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

Macro library name	Macros defined
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	5

146 GETS were required to define 5 macros.

There were no errors, warnings or information messages.



This image is a highly degraded scan of a technical manual page. The page is densely packed with a grid of small, illegible figures and text. The only legible text consists of several large, bold labels that serve as section headers for the figures. These labels, arranged in a grid pattern across the page, include:

- CONSUMER LIS
- DISPAR LIS
- DISMOU LIS
- DISMNTDSP LIS
- LOCKDB LIS
- CONINTER MAP
- CDRIVER MAP
- DRIVER
- DMRIVER MAP
- DRDRIVER MAP
- DYDRIVER MAP
- LCRIVER MAP
- DBDRIVER MAP
- DLDRIVER MAP
- DDRIVER MAP
- DXDRIVER MAP
- DDRIVER MAP
- DXDRIVER MAP
- DDRIVER MAP
- DDRIVER MAP
- LADRIVER MAP
- LPDRIVER MAP

The rest of the page contains numerous small, blurry rectangular blocks, which appear to be individual figures or diagrams. Due to the severe image quality, their specific content is entirely unrecognizable.