

UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	3333333333	2222222222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	3333333333	2222222222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	3333333333	2222222222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUU	UUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLL	333	222
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLLLLLLLLLLLLLLL	3333333333	22222222222222
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLLLLLLLLLLLLLLL	3333333333	22222222222222
UUUUUUUUUUUUUUUU	UUUUUUUUUUUUUUUU	TTTTTTTTTTTTTTTT	IIIIIIIIII	LLLLLLLLLLLLLLLL	3333333333	22222222222222

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(2)	44	DECLARATIONS
(3)	104	MAIN PROGRAM

```

0000 1      .TITLE  DISKMON - DISK I/O MONITOR
0000 2      .IDENT  'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 21 :*
0000 22 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27
0000 28 :++
0000 29 : FACILITY: Performance Monitoring
0000 30
0000 31 : ABSTRACT:
0000 32 :     Solicits time interval and calls I/O data collection routine.
0000 33
0000 34 : ENVIRONMENT:
0000 35 :     MODE = USER
0000 36
0000 37 : AUTHOR: S. S. AMWAY, CREATION  ATE: 24-Oct-83
0000 38
0000 39 : MODIFIED BY:
0000 40
0000 41 :--
0000 42

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0000 44 .SBTTL DECLARATIONS
0000 45 :
0000 46 : INCLUDE FILES:
0000 47 :
0000 48 :
0000 49 :
0000 50 : MACROS:
0000 51 :
0000 52 :
0000 53 :
0000 54 : EQUATED SYMBOLS:
0000 55 :
0000 56 :
0000 57 :
0000 58 : OWN STORAGE:
0000 59 :
00000000 60 .PSECT $PDATA, PIC,CON,REL,LCL, SHR,NOEXE, RD,NOWRT,LONG
20 00000008'010E0000' 0000 61 BLANK:
0000 62 .ASCID \ \
0009 63 .ALIGN LONG
000C 64 ANNOUNCE:
000C 65 .ASCID \VAX/VMS Disk I/O Monitor (Unsupported/Experimental Utility)\

4D 56 2F 58 41 56 00000014'010E0000' 000C
4D 20 4F 2F 49 20 68 73 69 44 20 53 001A
75 73 6E 55 28 20 72 6F 74 69 6E 6F 0026
65 70 78 45 2F 64 65 74 72 6F 70 70 0032
69 74 55 20 6C 61 74 6E 65 6D 69 72 003E
29 79 74 69 6C 004A
004F 66 .ALIGN LONG
0050 67 PROMPT:
0050 68 .ASCID \Data collection duration (minutes): \

63 20 61 74 61 44 00000058'010E0000' 0050
75 64 20 6E 6F 69 74 63 65 6C 6C 6F 005E
75 6E 69 6D 28 20 6E 6F 69 74 61 72 006A
20 3A 29 73 65 74 0076
007C 69
00000000 70 .PSECT $LOCAL, PIC,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,QUAD
FFFFFFFF FFFFFFFF 0000 71 LEGAL_FUNCTIONS:
0000 72 .LONG -1,-1
0008 73 COLLECT_ARG:
0008 74 .LONG 7
00000028' 000C 75 .LONG BUFFER_COUNT
0000002C' 0010 76 .LONG SECONDS
00000038' 0014 77 .LONG DEV_CLASS
00000039' 0018 78 .LONG DEV_TYPE
00000034' 001C 79 .LONG AND_MASK
00000036' 0020 80 .LONG OR_MASK
00000000' 0024 81 .LONG LEGAL_FUNCTIONS
0028 82 BUFFER_COUNT:
7FFFFFFF 0028 83 .LONG ^X7FFFFFFF
002C 84 SECONDS:
00000000 002C 85 .LONG 0
0030 86 MINUTES:
00000000 0030 87 .LONG 0
0034 88 AND_MASK:
0000 0034 89 .WORD 0
0036 90 OR_MASK:
0000 0036 91 .WORD 0
0038 92 DEV_CLASS:

```

- DISK I/O MONITOR
DECLARATIONS

	01	0038	93		.BYTE	1
		0039	94	DEV_TYPE:		
	FF	0039	95		.BYTE	-1
		003A	96		.ALIGN	LONG
		003C	97	CNV_STR:		
		003C	98		.LONG	0
		0040	99		.LONG	GET_STR+8
		0044	100	GET_STR:		
20 20 20 20 20 20		0044	101		.ASCID	\
0000004C'010E0000'		0052				
20 20 20 20		0056	102			

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0056 104 .SBTTL MAIN PROGRAM
0056 105 :++
0056 106 : FUNCTIONAL DESCRIPTION:
0056 107 : Solicits monitoring interval and calls collection routine.
0056 108 :
0056 109 : CALLING SEQUENCE:
0056 110 : CALLG/CALLS DISKMON
0056 111 :
0056 112 : INPUT PARAMETERS:
0056 113 : NONE
0056 114 :
0056 115 : IMPLICIT INPUTS:
0056 116 : NONE
0056 117 :
0056 118 : OUTPUT PARAMETERS:
0056 119 : NONE
0056 120 :
0056 121 : IMPLICIT OUTPUTS:
0056 122 : I/O DATA RECORDED TO FILE
0056 123 :
0056 124 : COMPLETION CODES:
0056 125 : $$$_NORMAL
0056 126 : Numerous errors returned by other facilities
0056 127 :
0056 128 : SIDE EFFECTS:
0056 129 : NONE
0056 130 :
0056 131 :--
00000000 132 .PSECT $CODE , PIC,CON,REL,LCL, SHR, EXE, RD,NOWRT,LONG
0000 133
0000 134 .ENTRY DISKMON,^M<>
0002 135
0000000C'EF DF 0002 136 PUSHAL ANNOUNCE ; Announce program
00000000'GI 01 FB 0008 137 CALLS #1,G^LIB$PUT_OUTPUT
00000000 65 50 E9 000F 138 BLBC R0,9999$
00000000'EF DF 0012 139 PUSHAL BLANK
00000000'GF 01 FB 0018 140 CALLS #1,G^LIB$PUT_OUTPUT
00000000 55 50 E9 001F 141 BLBC R0,9999$
0000003C'EF 3F 0022 142 10$: PUSHAW CNV_STR ; Solicit monitoring interval
00000050'EF DF 0028 143 PUSHAL PROMPT ; (in minutes)
00000044'EF DF 002E 144 PUSHAL GET_STR
00000000'GF 03 FB 0034 145 CALLS #3,G^LIB$GET_INPUT
00000000 39 50 E9 003B 146 BLBC R0,9999$
00000000 11 DD 003E 147 PUSHL #^X11 ; Convert ASCII to longword
00000000 04 DD 0040 148 PUSHL #4
00000030'EF DF 0042 149 PUSHAL MINUTES
0000003C'EF DF 0048 150 PUSHAL CNV_STR
00000000'GF 04 FB 004E 151 CALLS #4,G^OTSS$CVT_TI_L
00000030'EF CA 50 E9 0055 152 BLBC R0,10$
00000030'EF D5 0058 153 TSTL MINUTES ; Must be >= 0
0000002C'EF C2 15 005E 154 BLEQ 10$
00000000'EF 00000030'EF C5 0060 155 MULL3 #60,MINUTES,SECONDS ; Convert minutes to seconds
00000000'EF 00000008'EF FA 006C 156 CALLG COLLECT_ARG,I0COLLECT ; Call data collection routine
004 0077 157 9999$: RET
0078 158
0078 159 .END DISKMON

```

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AND MASK	00000034	R	02
ANNOUNCE	0000000C	R	01
BLANK	00000000	R	01
BUFFER COUNT	00000028	R	02
CNV STR	0000003C	R	02
COLLECT_ARG	00000008	R	02
DEV_CLASS	00000038	R	02
DEV_TYPE	00000039	R	02
DISKMON	00000000	RG	03
GET STR	00000044	R	02
IOCOLLECT	*****	X	03
LEGAL FUNCTIONS	00000000	R	02
LIB\$GET_INPUT	*****	X	03
LIB\$PUT_OUTPUT	*****	X	03
MINUTES	00000030	R	02
OR MASK	00000036	R	02
OT\$SCVT_TI_L	*****	X	03
PROMPT	00000050	R	01
SECONDS	0000002C	R	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
\$PDATA	0000007C (124.)	01 (1.)	PIC USR CON REL LCL SHR NOEXE RD NOWRT NOVEC LONG
\$LOCAL	00000056 (86.)	02 (2.)	PIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC QUAD
\$CODE	00000078 (120.)	03 (3.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	48	00:00:00.11	00:00:01.45
Command processing	154	00:00:00.74	00:00:04.90
Pass 1	80	00:00:00.54	00:00:02.46
Symbol table sort	0	00:00:00.00	00:00:00.01
Pass 2	44	00:00:00.36	00:00:01.37
Symbol table output	3	00:00:00.03	00:00:00.22
Psect synopsis output	1	00:00:00.02	00:00:00.14
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	332	00:00:01.82	00:00:10.57

The working set limit was 900 pages.
 2537 bytes (5 pages) of virtual memory were used to buffer the intermediate code.
 There were 10 pages of symbol table space allocated to hold 19 non-local and 2 local symbols.
 159 source lines were read in Pass 1, producing 18 object records in Pass 2.
 0 pages of virtual memory were used to define 0 macros.

! Macro library statistics !

<u>Macro library name</u>	<u>Macros defined</u>
_\$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\$:DISKMON/OBJ=OBJ\$:DISKMON MSRC\$:DISKMON/UPDATE=(ENH\$:DISKMON)+EXECMLS/LIB

The image displays a grid of 168 terminal windows, arranged in 14 columns and 12 rows. Each window shows a different terminal session, likely representing various system utilities or diagnostic tools. The windows are densely packed with text, including command lines, status reports, and data listings. Some windows have titles or headers that are clearly legible, such as 'DISKMON LIS', 'DCLDIET LIS', 'TOCOLLECT LIS', 'SEARCH LIS', 'RTB MAP', 'SETUSER MAP', 'GETINFO LIS', 'RTB LIS', 'DISKQ LIS', 'SEARCH MAP', 'CHECKSUM LIS', and 'CKSMMSG LIS'. The overall appearance is that of a multi-user system terminal window, characteristic of the VAX/VMS operating system.