

BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT	SSSSSSSSSS
BBBBBBB9BBBB		00000000		00000000		TTTTTTTTTTTT	SSSSSSSSSS
BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT	SSSSSSSSSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBB	BBB	000	000	000	000	TTT	SSS
BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT	SSSSSSSSSS
BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT	SSSSSSSSSS
BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT	SSSSSSSSSS

```

SSSSSSSS YY YY SSSSSSSS GGGGGGGG EEEEEEEEE NN NN MM MM NN NN
SSSSSSSS YY YY SSSSSSSS GGGGGGGG EEEEEEEEE NN NN MM MM NN NN
SS YY YY SS GG EE NN NN MMM MMM NN NN
SS YY YY SS GG EE NN NN MMM MMM NN NN
SS YY YY SS GG EE NN NN MMM MM MM NNNN NN
SSSSSS YY YY SSSSSS GG GG EEEEEEE NN NN NN MM MM NN NN
SSSSSS YY YY SSSSSS GG GG EEEEEEE NN NN NN MM MM NN NN
SS YY YY SS GG GGGGGG EE NN NNNN MM MM NN NNNN
SS YY YY SS GG GGGGGG EE NN NNNN MM MM NN NNNN
SS YY YY SS GG GG EE NN NN MM MM NN NN
SSSSSSS YY SSSSSSSS GGGGGG EEEEEEEEE NN NN MM MM NN NN
SSSSSSS YY SSSSSSSS GGGGGG EEEEEEEEE NN NN MM MM NN NN

```

```

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
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

(2)	56	DECLARATIONS
(3)	85	Main routine
(3)	123	EXIT_HANDLER

```

0000 1      .TITLE  SYSGENMN - SYSGEN UTILITY MAIN ROUTINE
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 20 :   CORPORATION.
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0000 23 :   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :
0000 25 :-----*
0000 26 :
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY:      SYSGEN
0000 31 :
0000 32 : ABSTRACT:
0000 33 :   This module contains the main routine for the SYSGEN utility.
0000 34 :
0000 35 : ENVIRONMENT:  USER, EXEC, AND KERNEL MODES
0000 36 :
0000 37 : AUTHOR:   STEVE BECKHARDT,      CREATION DATE:  19-SEP-1979
0000 38 :           (ORIGINAL AUTHOR - LEN KAWELL)
0000 39 :
0000 40 : MODIFIED BY:
0000 41 :
0000 42 :   V03-004 WHM0001      Bill Matthews      20-May-1983
0000 43 :   Do an implicit SET/OUTPUT=SYSS$OUTPUT: in order to detect whether
0000 44 :   or not SYSS$OUTPUT is a terminal.
0000 45 :
0000 46 :   V03-003 MSH0003      Maryann Hinden     13-Jul-1983
0000 47 :   No echo argument to BOOS$GETPARAM.
0000 48 :
0000 49 :   V03-002 MSH0002      Maryann Hinden     03-Jun-1983
0000 50 :   Fix lock id specification for exit handler.
0000 51 :
0000 52 :   V03-001 MSH0001      Maryann Hinden     10-June-1983
0000 53 :   Move PUTERROR to separate module.
0000 54 :--

```

```
0000 56      .SBTTL  DECLARATIONS
0000 57      :
0000 58      : INCLUDE FILES:
0000 59      :
0000 60      :
0000 61      :
0000 62      : MACROS:
0000 63      :
0000 64      :
0000 65      :      $CLIDEF                                ; DEFINE CLI CODES AND VALUES
0000 66      :
0000 67      :
0000 68      : EQUATED SYMBOLS:
0000 69      :
0000 70      :
0000 71      :
0000 72      : OWN STORAGE:
0000 73      :
00000000 0000 74 EXIT_BLOCK:      .LONG  0                                ; Data block for exit handler
0000007E' 0004 75                .LONG  EXIT_HANDLER
00000001 0008 76                .LONG  1
00000010' 000C 77                .LONG  EXIT_STATUS
00000014 0010 78 EXIT_STATUS:  .BLKL  1
3A 54 55 50 54 55 4F 24 53 59 53 00' 0014 79
0B 0014 80 OUTFILE:      .ASCII  /SYS$OUTPUT:/
0020 81
0020 82
00000000 83      .PSECT  PAGED_CODE      rd,nowrt,exe,long
```

```

0000 85      .SBTTL Main routine
0000 86      :++
0000 87      : Functional Description:
0000 88      :   SYSGEN is the control module for the sysgen utility program which
0000 89      :   provides functional commands for the creation, examination and
0000 90      :   editing of parameter files, the creation of I/O data base and the loading
0000 91      :   of device drivers.
0000 92      :
0000 93      : Calling Sequence:
0000 94      :   CALLG ARGLIST,BOO$SYSGEN          called by the image activator
0000 95      :
0000 96      : Input Parameters:
0000 97      :
0000 98      : Output Parameters:
0000 99      :
0000 100     :--
0000 101     BOO$SYSGEN:: .WORD 0
0002 102     $LKWSET_S      INADR=BOO$GQ_LIMITS,-      ; Lock entire image in working set
0002 103     RETADR=BOO$GQ_RETADR      ; EXIT IF ERROR LOCKING PAGES, FATAL
63 50  E9 0017 104     BLBC      R0,10$      ; desblk = EXIT_BLOCK      ; Declare exit handler
53 50  E9 001A 105     $DCLEXH_S      ; Exit if can't do it
7E 7C 002A 106     BLBC      R0,10$      ; Null call back arguments
00000000'EF 9F 002C 107     CLRQ      -(SP)      ; Address of request block
08 BC 03 FB 0032 108     PUSHAB   L^BOO$AL_CLIBLK      ; Call utility service routine
00000003'EF 00'8F 91 0036 109     CALLS     #3,@CLIS$A_UTILSERV(AP)      ; Foreign command?
06 13 003E 110     CMPB     #CLISK_VERB_FORE,L^BOO$AL_CLIBLK+CLIS$B_RQSTAT      ; Branch if yes
00000000'EF 7C 0040 111     BEQL     5$      ; Clear command string descriptor
00000000'EF 00 FB 0046 112 5$: CLRQ      L^BOO$GQ_CMDESC      ; Use ACTIVE parameters
00000000'GF 00000014'EF 90 004D 113     MOVB     OUTFILE,G^BOO$GB_FILELEN; Set file length of SYSS$OUTPUT:
00000000'GF 00000015'EF 9E 0058 114     MOVAB    OUTFILE+1,G^BOO$GL_FILEADDR; Set file address of SYSS$OUTPUT:
00000000'EF 00 FB 0063 115     CALLS     #0,BOO$SET_OUTPUT      ; Do a SET/OUTPUT=SYSS$OUTPUT: command
00000000'EF 00 FB 006A 116     CALLS     #0,L^BOO$GETPARAM      ; READ AND PROCESS COMMANDS
50 00000000'8F D1 0071 117     Cmpl     #RMSS_EOF,R0      ; CHECK FOR END OF FILE
50 03 12 0078 118     BNEQ    10$      ; NO, RETURN STATUS
50 01 D0 007A 119     MOVL    #1,R0      ; SET NORMAL STATUS
04 007D 120     RET      ;
10$: 121     RET      ;

```

```

007E 123      .SBTTL EXIT_HANDLER
007E 124      :++
007E 125      :
007E 126      : PURPOSE
007E 127      : Dequeue SYSGEN database lock - if being held.
007E 128      :
007E 129      : INPUT
007E 130      : BOO$LOCK_ID - identification of database lock.
007E 131      :
007E 132      : OUTPUT
007E 133      : Lock is dequeued.
007E 134      :
007E 135      :--
007E 136      :
0000 007E 137      .ENTRY EXIT_HANDLER, ^M<>
0080 138
50 0000'8F 3C 0080 139 10$: $CMEXEC_S      routin=DQLOCK
04 008F 140      MOVZWL #SS$_NORMAL,RO
0094 141      RET
0095 142
0095 143      :
0095 144      : Exec mode routine to dequeue locks
0095 145      :
0000 0095 146      .ENTRY DQLOCK, ^M<>
0097 147
04 0097 148      $DEQ_S lkid = BOO$LOCK_ID
00A8 149      RET
00A9 150
00A9 151
00A9 152      .END BOO$SYSGEN

```

```

$BT1 = 00000001
BOOSAL_CLIBLK ***** X 03
BOOSGB_FILELEN ***** X 03
BOOSGETPARAM ***** X 03
BOOSGL_FILEADDR ***** X 03
BOOSGO_CMDESC ***** X 03
BOOSGO_LIMITS ***** X 03
BOOSGO_RETADR ***** X 03
BOOSLOCK_ID ***** X 03
BOOSSET_OUTPUT ***** X 03
BOOSYSGEN 00000000 RG 03
BOOSUSEACT ***** X 03
CLISA_UTILSERV = 00000008
CLISB_RSTAT = 00000003
CLISK_VERB_FORE ***** X 03
DQLOCK 00000095 RG 03
EXIT_BLOCK 00000000 R 01
EXIT_HANDLER 0000007E RG 03
EXIT_STATUS 00000010 R 01
OUTFILE 00000014 R 01
RMS$ EOF ***** X 03
SS$ NORMAL ***** X 03
SYS$CMEXEC ***** GX 03
SYS$DCLEXM ***** GX 03
SYS$DEQ ***** GX 03
SYS$LKWSET ***** GX 03

```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
. BLANK .	00000020 (32.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABS\$	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
PAGED_CODE	000000A9 (169.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.65
Command processing	107	00:00:00.68	00:00:04.81
Pass 1	165	00:00:02.40	00:00:07.26
Symbol table sort	0	00:00:00.27	00:00:00.77
Pass 2	44	00:00:00.60	00:00:00.84
Symbol table output	4	00:00:00.04	00:00:00.07
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	353	00:00:04.09	00:00:14.42

The working set limit was 1200 pages.
11616 bytes (23 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 212 non-local and 3 local symbols.

152 source lines were read in Pass 1, producing 20 object records in Pass 2.
14 pages of virtual memory were used to define 13 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	10
TOTALS (all libraries)	10

293 GETS were required to define 10 macros.

There were no errors, warnings or information messages.

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

The image displays a grid of 14 columns and 12 rows of terminal window screenshots. Each window shows various system-related information, including:

- System Status:** Screens showing system parameters and configurations, such as `SYSGENMN LIS` (row 2, column 7), `SYSGEN LIS` (row 5, column 3), `SYSGEN MD LIS` (row 6, column 4), `SYSGEN STR LIS` (row 5, column 8), and `SYSGEN TERM LIS` (row 7, column 7).
- Log Files:** Screens displaying log data, including `WMB LIS` (row 4, column 8).
- System Messages:** Screens showing error messages and system alerts, such as `58B00110 LIS` (row 8, column 7).
- System Tables:** Screens displaying system tables and data structures.

The screenshots are arranged in a regular grid pattern, with each window containing text-based data and some graphical elements like status bars and titles.