

DDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL

```

EEEEEEEEEE XX      XX      IIIIII  TTTTTTTTTT
EEEEEEEEEE XX      XX      JIIIIII TTTTTTTTTT
EE          XX      XX      II       TT
EE          XX      XX      II       TT
EE          XX      XX      II       TT
EE          XX      XX      II       TT
EEEEEEEEEE XX      XX      II       TT
EEEEEEEEEE XX      XX      II       TT
EE          XX      XX      II       TT
EE          XX      XX      II       TT
EE          XX      XX      II       TT
EE          XX      XX      II       TT
EEEEEEEEEE XX      XX      IIIIII  TT
EEEEEEEEEE XX      XX      IIIIII  TT

```

```

....
.
.
....

```

```

LL          IIIIII  SSSSSSSS
LL          IIIIII  SSSSSSSS
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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```



EXIT
Table of contents

- EXIT DCLS COMMAND EXECUTION

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(3)	65	EXIT COMMAND
(4)	126	WAIT COMMAND
(5)	172	WAIT AST ROUTINE

```
0000 1 .TITLE EXIT - EXIT DCLS COMMAND EXECUTION
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 24
0000 25
0000 26 *****
0000 27
0000 28 W. H. BROWN 25-JUN-1977
0000 29
0000 30 EXIT COMMAND EXECUTION
0000 31
0000 32 MODIFIED BY:
0000 33
0000 34 V03-006 HWS0076 Harold Schultz 29-Jun-1984
0000 35 Always run down images when EXIT command executed,
0000 36 regardless of the indirect level.
0000 37
0000 38 V03-005 HWS0038 Harold Schultz 26-Mar-1984
0000 39 Correct error message output in DCL$WAIT.
0000 40
0000 41 V03-004 PCG0006 Peter George 29-Jun-1983
0000 42 Add home brew $SETIMR interlock mechanism.
0000 43
0000 44 V03-003 PCG0005 Peter George 03-May-1983
0000 45 Specify REQIDT in SETIMR and CANTIM.
0000 46
0000 47 V03-002 PCG0004 Peter George 17-Jan-1983
0000 48 Preserve status across subroutine calls.
0000 49
0000 50 V03-001 PCG0003 Peter George 30-Dec-1982
0000 51 Set status on batch exit.
0000 52 :---
```

EXIT
V04-000

- EXIT DCLS COMMAND EXECUTION

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```
0000 54 :  
0000 55 : MACRO LIBRARY CALLS  
0000 56 :  
0000 57 :  
0000 58 PRCDEF ; DEFINE PROCESS WORK AREA  
0000 59 WRKDEF ; DEFINE COMMAND WORK AREA  
0000 60 $CLIMSGDEF ; DEFINE CLI RELATED ERROR MESSAGES  
0000 61 $STSDEF ; DEFINE STATUS CODE FORMAT  
00000000 62  
00000000 63 .PSECT DCL$ZCODE, BYTE, RD, NOWRT
```

```

0000 65      .SBTTL  EXIT COMMAND
0000 66      :+
0000 67      : DCL$EXIT - EXIT COMMAND
0000 68      :
0000 69      : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE EXIT DCLS COMMAND.
0000 70      :
0000 71      : INPUTS:
0000 72      :
0000 73      :     R10 = BASE ADDRESS OF COMMAND WORK AREA.
0000 74      :     R11 = BASE ADDRESS OF PROCESS WORK AREA.
0000 75      :
0000 76      : OUTPUTS:
0000 77      :
0000 78      :     THE EXIT EXPRESSION IS EVALUATED
0000 79      :
0000 80      :     R0 LOW BIT CLEAR INDICATES EXPRESSION EVALUATION FAILURE.
0000 81      :
0000 82      :     R0 = DCL$_COMPLX - EXPRESSION TOO COMPLEX.
0000 83      :     R0 = DCL$_EXPSYN - EXPRESSION SYNTAX ERROR.
0000 84      :     R0 = DCL$_IVCHAR - INVALID CHARACTER IN NUMERIC STRING.
0000 85      :     R0 = DCL$_IVOPER - INVALID EXPRESSION OPERATOR.
0000 86      :     R0 = DCL$_UNDSYM - UNDEFINED SYMBOL.
0000 87      :
0000 88      :     IF THE EXPRESSION EVALUTES OK, THE INDIRECT LEVEL IS UNSTACKED
0000 89      :     ONE LEVEL AND THE STATUS IS SET TO THE VALUE OF THE EXPRESSION,
0000 90      :     OR IS LEFT AS THE ORIGINAL VALUE IF THE EXPRESSION WAS NULL.
0000 91      :     R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
0000 92      :
0000 93      :     R0 = DCL$_NORMAL - NORMAL COMPLETION.
0000 94      : -
0000 95      :
0000 96      DCL$EXIT::
10000000 8F  C9 0000 97      BISL3  #STSSM_INHIB MSG,-      : EXIT COMMAND
58 00B0 CB  30 0006 98      PRC_L [STSTATUS(R11),R8  : GET LAST STATUS WITH INHIBIT MSG
      FFF3'  30 000A 99      BSBW  DCL$SETNBLK      : FIND NON-BLANK CHARACTER
      09 13 000D 100     BEQL  10$      : BR IF NONE-STATUS GETS SAVED
      FFEE'  30 000F 101     BSBW  DCL$BINEXPR      : EVALUATE BINARY EXPRESSION
      1C 50  E9 0012 102     BLBC  R0,40$      : BR IF ERROR EVALUATING EXPRESSION
58 51  D0 0015 103     MOVL  R1,R8      : SET RESULT OF EXPRESSION EVALUATION
00B0 CB  58  D0 0018 104 10$: MOVL  R8,PRC_L_LSTSTATUS(R11) : STORE STATUS
      FFEO'  30 001D 105     BSBW  DCL$RUNDOWNI      : RUN DOWN IMAGE BUT PRESERVE IND. LEVEL
      5C AB  D5 0020 106     TSTL  PRC_L_INDEPTH(R11) : INDIRECT LEVEL 0?
      0D 13 0023 107     BEQL  50$      : BR IF THERE IS NOTHING TO UNSTACK
      FFDB'  30 0025 108     BSBW  DCL$UNSTACK      : REMOVE ONE LEVEL OF INDIRECT
50 00B0 CB  D0 0028 109 20$: MOVL  PRC_L_LSTSTATUS(R11),R0 : SET RESULTANT STATUS
      02 AB  D0 002D 110     BISW  #WRK_R_COMMAND,-      : SET COMMAND IN EXECUTION
      FO AA  002F 111     WRK_Q_FLAGS(R10)
      05 0031 112 40$:  RSB
      0032 113
      0032 114
      0032 115 : AN EXIT COMMAND ISSUED FOR COMMAND LEVEL 0
      0032 116 : THIS IS A CALL EXIT HANDLER/FORCE EXIT FOR INTERACTIVE JOBS AND
      0032 117 : A LOGOUT FOR BATCH JOBS.
      0032 118
      0032 119 50$:  BBC  #PRC_V_MODE,-      : BRANCH IF INTERACTIVE (IMAGE ALREADY
      F1 68 AB  E1 0032 120     PRC_Q_FLAGS(R11),20$  : RUN DOWN)
      0034 120
      0037 121

```

EXIT
V04-000

- EXIT DCLS COMMAND EXECUTION
EXIT COMMAND

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50	00B0 CB	D0	0037	122	MOVL	PRC L LSTSTATUS(R11),R0	; SET STATUS
	FFC1'	30	003C	123	BSBW	DCL\$SAVE STATUS	; SET \$STATUS AND \$SEVERITY
	FFBE'	31	003F	124	BRW	DCL\$ABORT	; FORCE LOGOUT

```

0042 126 .SBTTL WAIT COMMAND
0042 127 :+
0042 128 : DCL$WAIT - WAIT COMMAND
0042 129 :
0042 130 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE WAIT COMMAND.
0042 131 :
0042 132 : INPUTS:
0042 133 :
0042 134 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0042 135 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0042 136 :
0042 137 : THE NEXT TOKEN ON THE COMMAND LINE MUST BE A VALID
0042 138 : EXPRESSION FOR DELTA TIME MINUS THE NUMBER OF DAYS FIELD.
0042 139 :
0042 140 : OUTPUTS:
0042 141 :
0042 142 : THE COMMAND FILE EXECUTION IS WAITED FOR THE SPECIFIED TIME.
0042 143 :-
0042 144 DCL$WAIT::
52 FFBB' 30 0042 145 BSBW DCL$MARK : MARK CURRENT POSITION IN BUFFER
62 F486 CA D0 0045 146 MOVL WRK_L_EXPANDPTR(R10),R2 : COPY START OF TIME FIELD
2030 8F B0 004A 147 MOVW #^A70^/, (R2) : APPEND ZERO DAY COUNT FOR WAIT
F486 CA 02 C0 004F 148 ADDL #2,WRK_L_EXPANDPTR(R10) : UPDATE EXPANSION POINTER
FFA9' 30 0054 149 10$: BSBW DCL$MOVCHAR : MOVE A CHARACTER TO PARSE BUFFER
FB 12 0057 150 BNEQ 10$ : UNTIL END OF LINE
FFA4' 30 0059 151 BSBW DCL$MARKEDTOKEN : GET DESCRIPTOR OF TIME STRING
51 D7 005C 152 DECL R1 : DISCOUNT EOL CHARACTER
06 BB 005E 153 PUSHR #^M<R1,R2> : BUILD DESCRIPTOR FOR TIME STRING
57 66 AB 3E 0060 154 MOVAW PRC_W_WAITIOSB(R11),R7 : GET WAIT IOSB ADDRESS
0064 155 $CANTIM_S REQIDT=R7 : CANCEL ANY PREVIOUS TIMERS
53 5E D0 006F 156 MOVL -SP,R3 : SAVE ADDRESS OF QUAD WORD DESCRIPTOR
2D 50 E9 0072 157 $BINTIM_S (R3),(R3) : CONVERT TIME TO BINARY DELTA FORMAT
67 B4 0080 158 BLBC -R0,30$ : BR IF ERROR IN TIME
0082 160 CLRW (R7) : CLEAR WAIT IOSB STATUS
0082 161 $SETIMR_S EFN=#EXESC_SYSEFN,- : SET TIMER FOR SPECIFIED TIME
0082 162 DAYTIM=(R3),- :
0082 163 ASTADR=WAIT_AST,- :
0082 164 REQIDT=R7 :
11 50 E9 0099 164 BLBC R0,30$ : BR IF ERROR SETTING TIMER
009C 165 $SYNCH_S IOSB=(R7),- : WAIT THE SPECIFIED TIME
009C 166 EFN=#EXESC_SYSEFN :
07 11 00AB 167 BRB 35$ : GOTO EXIT
00AD 168 30$: STATUS IVDTIME : SET INVALID DELTA TIME.
8E 7C 00B4 169 35$: CLRQ (SP)+ : REMOVE SCRATCH QUAD WORD FROM STACK
05 00B6 170 RSB

```



```
00B7 172      .SBTTL  WAIT AST ROUTINE
00B7 173      :+
00B7 174      : WAIT_AST - WAIT AST ROUTINE
00B7 175      : THIS ROUTINE PROVIDES THE WAIT EVENT FLAG SYNCHRONIZATION.
00B7 176      :
00B7 177      : INPUTS:
00B7 178      :
00B7 179      :     NONE
00B7 180      :
00B7 181      : OUTPUTS:
00B7 182      :
00B7 183      :     RO = SUCCESS
00B7 184      :
00B7 185      :-
00B7 186
00B7 187 WAIT_AST:
00B7 188      .WORD  ^M<R7>
00B9 189      MOVW  #1,@4(AP)
00BD 190      STATUS NORMAL
00C4 191      RET
00C5 192
00C5 193      .END

04 BC 01 0080
          B0
          04
          00C4 191
          00C5 192
          00C5 193

;FLUSH OUTPUT
;
;SET THE STATUS IN THE WAIT IOSB
;SET SUCCESSFUL STATUS
;
```

EXIT
Symbol table

- EXIT DCLS COMMAND EXECUTION

D 1

15-SEP-1984 23:45:56 VAX/VMS Macro V04-00
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```

SST1 = 00000000
CLIS_IVDTIME = 00038298
CLIS_NORMAL = 00030001
DCL$ABORT ***** X 02
DCL$BINEXPR ***** X 02
DCL$EXIT 00000000 RG 02
DCL$MARK ***** X 02
DCL$MARKEDTOKEN ***** X 02
DCL$MOVCHAR ***** X 02
DCL$RUNDWNI ***** X 02
DCL$SAVE STATUS ***** X 02
DCL$SETNBLK ***** X 02
DCL$UNSTACK ***** X 02
DCL$WAIT 00000042 RG 02
EXESC_SYSEFN ***** X 02
PRC_B_CONTINUE 000000F3
PRC_B_DEFRADIX 000000AE
PRC_B_EXMDEPMOD 000000AD
PRC_B_EXMDEPWID 000000AC
PRC_B_EXONLYL 0000012D
PRC_B_FLAGS2 000000AF
PRC_B_IMGFLAG 00000078
PRC_B_OUTFLAGS 0000012C
PRC_B_PROMPTLEN 000000F0
PRC_C_LENGTH 00000534
PRC_G_COMMANDS 00000133
PRC_G_PROMPT 000000F4
PRC_K_LENGTH 00000534
PRC_L_CURRKEY 00000048
PRC_L_EXMDEPADR 000000A8
PRC_L_EXTARG 00000094
PRC_L_EXTBLK 0000008C
PRC_L_EXTCOD 0000009C
PRC_L_EXTHND 00000090
PRC_L_EXTPRM 00000098
PRC_L_IDFLNK 00C000BC
PRC_L_IMGACTSTS 00000080
PRC_L_INDCLOCK 0000007C
PRC_L_INDEPTH 0000005C
PRC_L_INDFAB 0000001C
PRC_L_INDIRPRAB 00000014
PRC_L_INDOUTRAB 00000018
PRC_L_INPRAB 00000008
PRC_L_LASTKEY 0000004C
PRC_L_LSTSTATUS 000000B0
PRC_L_ONCTLY 000000B8
PRC_L_ONERROR 0000006C
PRC_L_OUTOFBAND 000000B4
PRC_L_OUTRAB 0000000C
PRC_L_OUTRABCTX 00000118
PRC_L_PPFLIST 00000070
PRC_L_RECALLPTR 0000012F
PRC_L_RESTART 00000058
PRC_L_SAVAP 00000000
PRC_L_SAVFP 00000004
PRC_L_SEVERITY 00000050
PRC_L_SPWN 000000C0

```

```

PRC_L_STACKLM 000000A4
PRC_L_STACKPT 000000A0
PRC_L_STATUS 00000054
PRC_L_STS 00000084
PRC_L_STV 00000088
PRC_L_SYMBOL 00000060
PRC_L_TMBX 0C000074
PRC_L_TRMLIST 00000010
PRC_Q_ALLOCREG 00000020
PRC_Q_COMMAND 000000E0
PRC_Q_FLUSHTIME 000000D0
PRC_Q_GLOBAL 00000028
PRC_Q_IMAGENAME 000000D8
PRC_Q_KEYPAD 00000040
PRC_Q_LABEL 00000030
PRC_Q_LOCAL 00000038
PRC_Q_SAVEPRIV 000000E8
PRC_T_OUTDVI 0000011C
PRC_V_MODE = 00000006
PRC_W_ASTIOSB 0C0000C6
PRC_W_ASTRETN 000000C8
PRC_W_ASTSTATUS 000000C4
PRC_W_ATTMBX 0000007A
PRC_W_FLAGS 00000068
PRC_W_INPCHAN 00000064
PRC_W_ONLEVEL 0000006A
PRC_W_OUTIFI 00000114
PRC_W_OUTISI 0C000116
PRC_W_OUTMBXCHN 000000CA
PRC_W_OUTMBXREF 000000CE
PRC_W_OUTMBXSIZ 000000CC
PRC_W_PMPCTRL 000000F1
PRC_W_WAITIOSB 00000066
STSSM_INHIB_MSG = 10000000
SYSSBINTIM ***** GX 02
SYSSCANTIM ***** GX 02
SYSSSETIMR ***** GX 02
SYSSSYNCH ***** GX 02
WAIT AST 000000B7 R 02
WRK_B_CMDOPT FFFFFFFC3
WRK_B_MAXPARM FFFFFFFD0
WRK_B_MINPARM FFFFFFFD1
WRK_B_PARMCNT FFFFFFFCE
WRK_B_PARMSUM FFFFFFFCF
WRK_B_RECALLCNT FFFFFFFC5
WRK_B_VALLEV FFFFFFFC4
WRK_B_VERBTYP FFFFFFFC2
WRK_C_LENGTH FFFFF486
WRK_G_BUFFER FFFFF492
WRK_G_INPBUF FFFFF896
WRK_G_RESULT FFFFF9B6
WRK_K_LENGTH FFFFF486
WRK_L_CHARPTR FFFFF48E
WRK_L_DISALLOW FFFFFFFE6
WRK_L_ERRORRTN FFFFF9AE
WRK_L_EXPANDPTR FFFFF486
WRK_L_IMAGE FFFFFFFE2

```

EXIT
Symbol table

- EXIT DCLS COMMAND EXECUTION

E 1

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WRK_L_MARKPTR	FFFFFF48A
WRK_L_PAROUT	FFFFFFD2
WRK_L_PMPTADDR	FFFFFF9A2
WRK_L_PROMPTRTN	FFFFFF9A6
WRK_L_PROPTR	FFFFFFC6
WRK_L_QUABLK	FFFFFFCA
WRK_L_READRTN	FFFFFF9AA
WRK_L_RECALLPTR	FFFFFFEA
WRK_L_RSLEND	FFFFFFB6
WRK_L_RSLNXT	FFFFFFBA
WRK_L_SAVAP	FFFFFFF8
WRK_L_SAVFP	FFFFFFFC
WRK_L_SAVSP	FFFFFFF4
WRK_L_SIGNALRTN	FFFFFFD6
WRK_L_SPECRTN	FFFFFF9B2
WRK_L_TAB_VEC	FFFFFFDE
WRK_L_VERB	FFFFFFBE
WRK_M_COMMAND	= 00000002
WRK_W_FLAGS	FFFFFFF0
WRK_W_FLAGS2	FFFFFFF2
WRK_W_IMGCHAN	FFFFFFEE
WRK_W_PMPTLEN	FFFFFF99E

! 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	FFFFFFFC (0.)	01 (1.)	NOPIC USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE		
DCL\$ZCODE	000000C5 (197.)	02 (2.)	NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	BYTE		

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	14	00:00:00.06	00:00:01.78
Command processing	85	00:00:00.65	00:00:06.71
Pass 1	187	00:00:05.83	00:00:23.62
Symbol table sort	0	00:00:00.59	00:00:01.61
Pass 2	38	00:00:00.95	00:00:03.46
Symbol table output	16	00:00:00.10	00:00:00.12
Psect synopsis output	2	00:00:00.04	00:00:00.24
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	342	00:00:08.22	00:00:37.68

The working set limit was 1050 pages.
 24786 bytes (49 pages) of virtual memory were used to buffer the intermediate code.
 There were 30 pages of symbol table space allocated to hold 440 non-local and 7 local symbols.
 193 source lines were read in Pass 1, producing 13 object records in Pass 2.
 35 pages of virtual memory were used to define 22 macros.

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

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	5
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	12
TOTALS (all libraries)	17

604 GETS were required to define 17 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:EXIT/OBJ=OBJ\$:EXIT MSRC\$:EXIT/UPDATE=(ENH\$:EXIT)+EXECML\$/LIB+LIB\$:DCL/LIB+SYSS\$LIBRARY:SYSBLDMLB/LIB

INTDEF SOL	DESCRVAL LIS
CLIMAC MAR	CLIMSG LIS
CHARMANIP LIS	CONNECT LIS
INTIMAGES MAR	DCXSTART LIS
CLIGBL LIS	DISALLOW LIS
CLINT LIS	
CANCEL LIS	

The image displays a grid of 100 small terminal window screenshots, arranged in a 10x10 grid. Each window shows a different command or system output. The windows are arranged in a grid, with some windows being more prominent than others. The following table lists the labels for the windows that have larger text overlaid on them:

Row	Column	Label
2	3	GETKEYNAM LIS
3	3	GOTO LIS
4	1	EXPRESS LIS
4	4	HANDLE LIS
5	6	IMAGECTRL LIS
5	10	INITIAL LIS
6	8	INDIRECT LIS
10	1	FILECMD5 LIS
10	5	IF LIS
10	6	IMAGEXECT LIS