

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

```

SSSSSSSS TTTTTTTTTT AAAAAA TTTTTTTTTT UU UU SSSSSSSS
SSSSSSSS TTTTTTTTTT AAAAAA TTTTTTTTTT UU UU SSSSSSSS
SS TT AA AA TT TT UU UU SS
SS TT AA AA TT TT UU UU SS
SS TT AA AA TT TT UU UU SS
SS TT AA AA TT TT UU UU SS
SSSSSS TT AA AA TT TT UU UU SS
SSSSSS TT AA AA TT TT UU UU SS
SS TT AA AA TT TT UU UU SS
SS TT AA AA TT TT UU UU SS
SSSSSSSS TT AA AA TT TT UUUUUUUUUU SSSSSSSS
SSSSSSSS TT AA AA TT TT UUUUUUUUUU SSSSSSSS

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....
....
....
....

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LL I I I I I I SSSSSSSS
LL I I I I I I SSSSSSSS
LL I I SS
LL I I SS
LL I I SS
LL I I SS
LL I I SSSSSS
LL I I SSSSSS
LL I I SS
LL I I SS
LL I I SS
LL I I SS
LLLLLLLLLLLL I I I I I I SSSSSSSS
LLLLLLLLLLLL I I I I I I SSSSSSSS

```

STATUS
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D 4

16-SEP-1984 00:21:49 VAX/VMS Macro V04-00

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SET COMPLETION STATUS
SAVE COMPLETION STATUS

```

0000 1 .TITLE STATUS - SET COMPLETION STATUS
0000 2 .IDENT 'V04-001'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28 SET COMPLETION STATUS
0000 29
0000 30 D. N. CUTLER 18-MAY-77
0000 31
0000 32 MODIFIED BY:
0000 33
0000 34 V04-001 HWS0108 Harold Schultz 14-Sep-1984
0000 35 In the case of SSS_EXCPUTIM, SSS_FORCEEXIT, and
0000 36 JBC$_JOBABORT errors, execute an implicit EXIT command
0000 37 with error status in order to unwind all command procedures.
0000 38 If interactive, it will cause return to the command prompt.
0000 39 If batch, it will cause the batch job to exit.
0000 40
0000 41 V03-004 PCG0005 Peter George 03-Jan-1984
0000 42 Fix broken BSBW.
0000 43
0000 44 V03-003 PCG0004 Peter George 27-May-1983
0000 45 Fix broken BRW.
0000 46
0000 47 V03-002 PCG0003 Peter George 28-Jan-1983
0000 48 Remove references to the ONEXIT bit.
0000 49
0000 50 V03-001 PCG0002 Peter George 30-Dec-1982
0000 51 Break DCL$SET_STATUS up into two routines.
0000 52 :---

```

```
0000 54 :  
0000 55 : MACRO LIBRARY CALLS  
0000 56 :  
0000 57 :  
0000 58          PROCDEF          :DEFINE PROCESS WORK AREA  
0000 59          WRKDEF          :DEFINE COMMAND WORK AREA  
0000 60          $PSLDEF         :DEFINE PROCESSOR STATUS REGISTER FIELDS  
0000 61          $JRCMSGDEF      :DEFINE JOB CONTROLLER ERROR MESSAGES  
0000 62          $STSDEF        :DEFINE STATUS LONG WORD VALUES  
0000 63 :  
0000 64 : LOCAL DATA  
0000 65 :  
0000 66 :  
00000000 67          .PSECT  DCL$ZCODE, BYTE, RD, NOWRT  
0000 68 :  
00 54 49 58 45 05 0000 69 DCL$T_DEFONTEXT:: : DEFAULT ON TEXT  
0000 70 EXIT: .ASCII <5>/EXIT/<0> :
```

```

0006 72 .SBTTL SET COMPLETION STATUS
0006 73 :+
0006 74 : DCL$SET_STATUS - SET COMPLETION STATUS
0006 75 :
0006 76 : THIS ROUTINE IS CALLED TO SET THE COMPLETION STATUS OF A COMMAND. IT IS
0006 77 : CALLED FROM A POINT AT WHICH INDIRECT FILES AND ALL OTHER CONTEXT CAN BE
0006 78 : DESTROYED IF APPROPRIATE.
0006 79 :
0006 80 : INPUTS:
0006 81 :
0006 82 :     RO = COMPLETION STATUS VALUE.
0006 83 :
0006 84 :     IT IS ASSUMED THAT 'ON ERROR' CONDITIONS HAVE BEEN ESTABLISHED.
0006 85 :
0006 86 : OUTPUTS:
0006 87 :
0006 88 :     THE THREE COMPONENTS OF THE COMPLETION STATUS ARE CONVERTED TO ASCII
0006 89 :     AND EQUATED TO THEIR RESPECTIVE SYMBOL NAMES.
0006 90 :-
0006 91
0006 92 DCL$SET_STATUS::
0006 93     BLBC RO,5$ ;SET COMPLETION STATUS
0006 94     BBC #WRK_V_NOSTAT,WRK_W_FLAGS(R10),5$ ;BR IF ERROR STATUS OF SOME KIND
0006 95     BRW 40$ ; BR IF STATUS COMMAND
0011 96 5$: DISABLE ;OTHERWISE, DONE
0017 97 CLRQ (SP)+ ;DISABLE CONTROL Y/C AST'S
0019 98 BSBB DCL$SAVE_STATUS ;REMOVE RETURN INFORMATION FROM STACK
0018 99 ;SET $STATUS AND $SEVERITY
001B 100 : SPECIAL CASE S$$ EXCPUTIM , S$$ FORCEDEXIT, AND JBC$_JOBABORT ERRORS.
001B 101 : SET THE LAST STATUS VALUE, FLUSH THE COMMAND BUFFER, AND SETUP TO EXECUTE
001B 102 : THE EXIT COMMAND.
001B 103 :
001B 104 BBS #PRC_V_MODE,- ;BRANCH IF NOT INTERACTIVE
001D 105 PRC_W_FLAGS(R11),7$
0020 106 TSTL PRC_L_INDEPTH(R11) ;ARE WE AT COMMAND LEVEL 0?
0023 107 BEQL 20$ ;YES, PROCESS NORMALLY
0025 108
0025 109 7$: BICL #STSSM_CONTROL,RO ;INIT. CONTROL PORTION OF ERROR CODE
002C 110 CMLP #SS$_EXCPUTIM,RO ;EXCEEDED CPU TIME ERROR?
0033 111 BEQL 10$ ;YES, SPECIAL CASE IT
0035 112 CMLP #JBC$_JOBABORT!STSSK_ERROR,RO ;JOB ABORT FROM JOB CONTROLLER?
003C 113 BEQL 10$ ;YES, SPECIAL CASE IT
003E 114 CMLP #SS$_FORCEDEXIT,RO ;FORCED EXIT ERROR?
0045 115 BNEQ 20$ ;NO, PROCESS NORMALLY
0047 116
0047 117 10$: MOVL RO,PRC_L_LSTSTATUS(R11) ;SAVE LAST STATUS VALUE FOR PROCESS
004C 118 JSB DCL$FLUSH ;FLUSH THE COMMAND BUFFER
0052 119 BRB 25$ ;SETUP TO EXECUTE 'EXIT' COMMAND.
0054 120
0054 121 20$: BBS #PRC_V_YLEVEL,PRC_W_FLAGS(R11),40$ ;IF SET, CONTROL Y/C LEVEL
0059 122 MOVL RO,PRC_L_LSTSTATUS(R11) ;SAVE LAST STATUS VALUE FOR PROCESS
005E 123 BLBS RO,40$ ;IF LBS SUCCESSFUL COMPLETION
0061 124 EXTZV #0,#3,RO,RO ;EXTRACT SEVERITY LEVEL
0066 125 CMPB RO,PRC_W_ONLEVEL(R11) ;FATAL ERROR?
006A 126 BLSS 40$ ;IF LSS NO
006C 127 JSB DCL$FLUSH ;FLUSH COMMAND BUFFER
0072 128 MOVL PRC_L_ONERROR(R11),RO ;GET ADDRESS OF ON COMMAND TEXT

```

- SET COMPLETION STATUS
SET COMPLETION STATUS

50	85	AF	9E	0078	130	25\$:	BNEQ	30\$:	IF NEQ COMMAND SPECIFIED
F896	CA	60	51	28	007F	132	MOVAB	EXIT,RO	:	GET ADDRESS OF EXIT COMMAND TEXT
F48E	CA	F895	CA	9A	007C	131	MOVZBL	(R0)+,R1	:	GET LENGTH OF ON COMMAND TEXT
		FF71		2E	007E	133	MOVC	R1,(R0),WRK_G_INPBUF(R10)	:	MOVE COMMAND TO INPUT BUFFER
00000000		'EF		9E	0085	133	MOVAB	WRK_G_INPBUF-T(R10),WRK_L_CHARPTR(R10)	:	SET INPUT BUFFER POINTER
				30	008C	134	BSBW	DCL\$ONRESET	:	RESET ON ERROR PARAMETERS
				17	008F	135	JMP	DCL\$CMDSTART	:	EXECUTE ON COMMAND
				05	0095	136	RSB		:	
				0096	137				:	

```

0096 139      .SBTTL  SAVE COMPLETION STATUS
0096 140      :+
0096 141      : DCL$SAVE_STATUS - SET COMPLETION STATUS
0096 142      :
0096 143      : THIS ROUTINE IS CALLED TO SET $STATUS AND $SEVERITY.
0096 144      :
0096 145      : INPUTS:
0096 146      :
0096 147      :     RO = COMPLETION STATUS VALUE.
0096 148      :
0096 149      : OUTPUTS:
0096 150      :
0096 151      :     THE TWO COMPONENTS OF THE COMPLETION STATUS ARE CONVERTED TO ASCII
0096 152      :     AND EQUATED TO THEIR RESPECTIVE SYMBOL NAMES.
0096 153      :-
0096 154
0096 155 DCL$SAVE_STATUS::                                ;SET $STATUS AND $SEVERITY
0096 156
0096 157
0096 158 : IF ABBREVIATED CLI STATUS (REPRESENTED BY NEGATIVE NUMBER), THEN TRANSLATE
0096 159 : TO A NORMAL STATUS.
0096 160 :
0096 161      PUSHL  RO                                ;SAVE COMPLETION STATUS VALUE
0096 162      BGEQ   10$                                ;IF GEQ NOT COMMAND INTERPRETER STATUS
0096 163      MNEGL  RO,RO                                ;NEGATE COMPLETION STATUS
0096 164      BISW   #^XOE000,RO                        ;ADD CLI SUBSYSTEM SPECIFY DIVIDED BY 4
0096 165      MULL3  #4,RO,(SP)                        ;CONVERT TO SCALED ERROR NUMBER
0096 166
0096 167 :
0096 168 : SET UP $SEVERITY.
0096 169 :
0096 170 10$: EXTZV  #0,#3,(SP),RO                    ;EXTRACT SEVERITY LEVEL
0096 171      ADDL   #^A/O/,RO                            ;CONVERT SEVERITY LEVEL TO ASCII
0096 172      MOVL  PRC_L SEVERITY(R11),R1              ;GET ADDRESS OF SEVERITY LEVEL VALUE
0096 173      MOVB  RO,(RT)                               ;SET SEVERITY LEVEL VALUE
0096 174      MOVW  #1,-2(R1)                            ;SET LENGTH OF SEVERITY LEVEL VALUE
0096 175
0096 176 :
0096 177 : SET UP $STATUS.
0096 178 :
0096 179      MOVL  PRC_L STATUS(R11),R2                ;GET ADDRESS OF STATUS VALUE VALUE
0096 180      MOVL  (SPT),RO                              ;GET STATUS VALUE
0096 181      MOVW  #10,-2(R2)                            ;SET LENGTH OF STRING
0096 182      MOVW  #^A/XX/,(R2)+                        ;SET RADIX CONTROL CHARACTERS
0096 183      BSBW  DCL$CNVHXL                            ;CONVERT TO HEX LONGWORD
0096 184
0096 185 :
0096 186 : RESTORE STATUS AND RETURN.
0096 187 :
0096 188      POPL  RO                                ;RESTORE THE STATUS
0096 189      RSB
0096 190
0096 191      .END

```


STATUS
Symbol table

- SET COMPLETION STATUS

J 4

16-SEP-1984 00:21:49 VAX/VMS Macro V04-00
15-SEP-1984 09:17:38 [DCL.SRC]STATUS.MAR;2

DCL\$CMDSTART	*****	X	02
DCL\$CNVHXL	*****	X	02
DCL\$DISABLE	*****	X	02
DCL\$FLUSH	*****	X	02
DCL\$ONRESET	*****	X	02
DCL\$SAVE STATUS	00000096	RG	02
DCL\$SET STATUS	00000006	RG	02
DCL\$T_DEFONTXT	00000000	RG	02
EXIT	00000000	R	02
JBC\$ JOBABORT	= 00048080		
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	0000008C		
PRC_L_IMGACTSTS	00000080		
PRC_L_INDCLOCK	0000007C		
PRC_L_INDEPTH	0000005C		
PRC_L_INDFAB	0000001C		
PRC_L_INDINPRAB	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	00000074
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	0C00011C
PRC_V_MODE	= 00000006
PRC_V_YLEVEL	= 0000000B
PRC_W_ASTIOSB	000000C6
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	00000116
PRC_W_OUTMBXCHN	000000CA
PRC_W_OUTMBXREF	000000CE
PRC_W_OUTMBXSIZ	000000CC
PRC_W_PMPTCTRL	000000F1
PRC_W_WAITIOSB	00000066
SS\$EXCPUTIM	*****
SS\$FORCEDEXIT	*****
ST\$K_ERROR	= 00000002
ST\$M_CONTROL	= F0000000
WRK_B_CMDOPT	FFFFFFC3
WRK_B_MAXPARM	FFFFFFD0
WRK_B_MINPARM	FFFFFFD1
WRK_B_PARMCNT	FFFFFFCE
WRK_B_PARMSUM	FFFFFFCF
WRK_B_RECALLCNT	FFFFFFC5
WRK_B_VALLEV	FFFFFFC4
WRK_B_VERBTYP	FFFFFFC2
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	FFFFFFE6
WRK_L_ERRORRTN	FFFFFF9AE
WRK_L_EXPANDPTR	FFFFF486
WRK_L_IMAGE	FFFFFFE2
WRK_L_MARKPTR	FFFFF48A
WRK_L_PAROUT	FFFFFFD2
WRK_L_PMPTADDR	FFFFF9A2
WRK_L_PROMPTRN	FFFFF9A6
WRK_L_PROPTR	FFFFFFC6
WRK_L_QUABLK	FFFFFFCA

X 02
X 02

STATUS
Symbol table

- SET COMPLETION STATUS

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16-SEP-1984 00:21:49 VAX/VMS Macro V04-00
15-SEP-1984 09:17:38 [DCL.SRC]STATUS.MAR;2

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WRK_L_READRTN	FFFFFF9AA
WRK_L_RECALLPTR	FFFFFFFEA
WRK_L_RSLEND	FFFFFFFB6
WRK_L_RSLNXT	FFFFFFFBA
WRK_L_SAVAP	FFFFFFF8
WRK_L_SAVFP	FFFFFFFC
WRK_L_SAVSP	FFFFFFF4
WRK_L_SIGNALRTN	FFFFFFD6
WRK_L_SPECTRN	FFFFFF9B2
WRK_L_TAB_VEC	FFFFFFDE
WRK_L_VERB	FFFFFFBE
WRK_V_NOSTAT	= 00000008
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	000000D0 (208.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	15	00:00:00.02	00:00:01.79
Command processing	96	00:00:00.67	00:00:06.71
Pass 1	166	00:00:05.03	00:00:16.02
Symbol table sort	0	00:00:00.57	00:00:01.47
Pass 2	38	00:00:00.89	00:00:03.45
Symbol table output	15	00:00:00.09	00:00:00.29
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	331	00:00:07.30	00:00:29.75

The working set limit was 1050 pages.
 22576 bytes (45 pages) of virtual memory were used to buffer the intermediate code.
 There were 30 pages of symbol table space allocated to hold 394 non-local and 8 local symbols.
 191 source lines were read in Pass 1, producing 13 object records in Pass 2.
 27 pages of virtual memory were used to define 14 macros.

! Macro library statistics !

Macro library name	Macros defined
-----	-----
\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
\$255\$DUA28:[DCL OBJ]DCL.MLB;1	3
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	9

490 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

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

