

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

```
RRRRRRRR   PPPPPPPP   SSSSSSSS   UU      UU   BBBB BBBB
RRRRRRRR   PPPPPPPP   SSSSSSSS   UU      UU   BBBB BBBB
RR      RR  PP      PP  SS      SS   UU      UU   BB      BB
RR      RR  PP      PP  SS      SS   UU      UU   BB      BB
RR      RR  PP      PP  SS      SS   UU      UU   BB      BB
RRRRRRRR   PPPPPPPP   SSSSSSSS   UU      UU   BBBB BBBB
RRRRRRRR   PPPPPPPP   SSSSSSSS   UU      UU   BBBB BBBB
RR      RR  PP      PP      SS      SS   UU      UU   BB      BB
RR      RR  PP      PP      SS      SS   UU      UU   BB      BB
RR      RR  PP      PP      SS      SS   UU      UU   BB      BB
RR      RR  PP      PP      SS      SS   UU      UU   BB      BB
RRRRRRRR   PPPPPPPP   SSSSSSSS   UUUUUUUUU  BBBB BBBB
RRRRRRRR   PPPPPPPP   SSSSSSSS   UUUUUUUUU  BBBB BBBB
```

```
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
LLLLLLLLLL IIIIII   SSSSSSSS
LLLLLLLLLL IIIIII   SSSSSSSS
```

(2)	54	DECLARATIONS
(3)	77	GET QUALIFIER DESCRIPTOR BLOCK
(4)	138	FIND COMMAND QUALIFIER
(5)	203	EXTRACT RESULT DESCRIPTOR FIELDS
(6)	265	SET RESULT DESCRIPTOR ADDRESS
(7)	296	GET PARAMETER
(8)	345	RESULT PARSE INIT

```

0000 1      .TITLE RPSUB - DCL RESULT PARSE SUBROUTINES
0000 2      .IDENT 'V04-000'
0000 3
0000 4
0000 5 :-----*
0000 6 :*
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8 :*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9 :*  ALL RIGHTS RESERVED.
0000 10 :*
0000 11 :*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12 :*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13 :*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14 :*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15 :*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16 :*  TRANSFERRED.
0000 17 :*
0000 18 :*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19 :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20 :*  CORPORATION
0000 21 :*
0000 22 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 :*  SOFTWARE OR EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :-----*
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: STARLET DCL CLI
0000 31 :
0000 32 : ABSTRACT: MISC SUBROUTINES
0000 33 :
0000 34 :
0000 35 : ENVIRONMENT: NATIVE MODE USER CODE
0000 36 :
0000 37 : AUTHOR: W.H.BROWN, CREATION DATE:14-APR-77
0000 38 :
0000 39 : MODIFIED BY:
0000 40 :
0000 41 : V03-003 PCG0003 Peter George 15-Feb-1983
0000 42 : Update to new structure level.
0000 43 : Handle larger PTR data structure.
0000 44 : Move DCL$CNVASCBIN to CONVERT.
0000 45 :
0000 46 : V03-002 PCG0002 Peter George 14-Nov-1982
0000 47 : Call DCL$TRIM to process the numeric string
0000 48 : before converting it to an integer.
0000 49 :
0000 50 : V03-001 PCG0001 Peter George 30-Sep-1982
0000 51 : Use new larger PTR data structure.
0000 52 :--

```

```
0000 54 .SBTTL DECLARATIONS
0000 55 :
0000 56 : MACRO LIBRARY CALLS
0000 57 :
0000 58 :
0000 59 PRCDEF : DEFINE PROCESS WORK AREA
0000 60 WRKDEF : DEFINE COMMAND WORK AREA
0000 61 $$CLITABDEF : DEFINE TABLE STRUCTURE
0000 62 PTRDEF : DEFINE RESULT PARSE DESCRIPTOR
0000 63 RPWDEF : RESULT PARSE WORK DEFINITIONS
0000 64 PLMDEF : PARAMETER LIMIT DEFINITIONS
0000 65 $CLIDF : CLI DEFINITIONS
0000 66 $CLIMSGDEF : CLI MESSAGE DEFINITIONS
0000 67 :
0000 68 :
0000 69 :
0000 70 : OWN STORAGE:
0000 71 :
00000000 72 .PSECT DCL$ZCODE BYTE, RD, NOWRT
0000 73
```

```

0000 75
0000 76      .DSABL  LSB
0000 77      .SBTTL  GET QUALIFIER DESCRIPTOR BLOCK
0000 78      :++
0000 79      : FUNCTIONAL DESCRIPTION:
0000 80      :
0000 81      : THIS ROUTINE IS CALLED TO LOCATE THE COMMAND QUALIFIER
0000 82      : DESCRIPTOR BLOCK FOR A SPECIFIC QUALIFIER.
0000 83      : ALTERNATE ENTRY TO CHECK THAT QUALIFIER IS A PARAMETER
0000 84      : QUALIFIER AS OPPOSED TO AN OUTPUT SPECIFIER.
0000 85      :
0000 86      : CALLING SEQUENCE:
0000 87      :
0000 88      : BSB/JSB DCL$GETQUALDESC      ; GET QUALIFIER DESCRIPTOR
0000 89      : BSB/JSB DCL$GETPARMQUAL   ; GET PARAMETER QUALIFIER DESCRIPTOR
0000 90      :
0000 91      : INPUT PARAMETERS:
0000 92      :
0000 93      : R1 IS THE CODE TO IDENTIFY THE QUALIFIER
0000 94      :
0000 95      : IMPLICIT INPUTS:
0000 96      :
0000 97      : R8 = ADDRESS OF UTILITY BIT ARRAY
0000 98      : R9 = ADDRESS OF REQUEST DESCRIPTOR
0000 99      : R10 = ADDRESS OF WORK BLOCK
0000 100     : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
0000 101     :
0000 102     : OUTPUT PARAMETERS:
0000 103     :
0000 104     : R2 IS THE ADDRESS OF THE QUALIFIER DESCRIPTOR BLOCK
0000 105     :
0000 106     : COMPLETION CODES:
0000 107     :
0000 108     : R0 = SUCCESS/FAIL DEPENDING OF WHETHER THE DESCRIPTOR WAS FOUND
0000 109     :
0000 110     : SIDE EFFECTS:
0000 111     :
0000 112     : TOP LEVEL RETURN (RET) TAKEN IF SEARCH FAILS
0000 113     :
0000 114     :--
0000 115     :
0000 116     : .ENABL  LSB
0000 117     :
0000 118     DCL$GETPARMQUAL::      ; GET A PARAMETER QUALIFIER DESCRIPTOR
0000 119     DCL$GETQUALDESC::    ; FIND A QUALIFIER DESCRIPTOR
50  51  D0 0000 120     MOVL  R1,R0      ; COPY QUALIFIER NUMBER
52  CA AB D0 0003 121     BEQL  90$      ; ZERO IS INVALID QUALIFIER NUMBER
      13 13 0005 122     MOVL  WRK_L_QUABLK(R11),R2 ; POINT AT START OF QUALIFIER BLOCKS
      0B 11 0009 123     BEQL  90$      ; BR IF NONE
      08 A2 D5 000B 124     BRB   20$      ; START OF SEARCH
      0C 13 000D 125     10$: TSTL  ENT_L_NEXT(R2) ; TEST OFFSET TO NEXT
52  DE AB C1 0010 126     BEQL  90$      ; BR IF THIS IS LAST
      F2 50 F5 0012 127     ADDL3 ENT_L_NEXT(R2),- ; FIND ADDRESS OF NEXT ENT BLOCK
      50 D6 0015 128     WRK_L_TAB_VEC(R11),R2 ;
      05 05 0018 129     20$: SOBGTR R0,20$ ; COUNT DOWN QUALIFIER NUMBER
      05 05 001B 130     INCL  R0      ; INDICATE DESCRIPTOR FOUND
      05 05 001D 131     RSB      ; BACK TO THE CALLER

```

	001E	132			
	001E	133	90\$:	SETSTAT INVQUALNUM	; SET ERROR-INVALID QUALIFER NUMBER
04	0023	134		RET	; GO BACK TO DISPATCHER
	0024	135			
	0024	136		.DSABL LSB	

```

0024 138 .SBTTL FIND COMMAND QUALIFIER
0024 139 :++
0024 140 : FUNCTIONAL DESCRIPTION:
0024 141 :
0024 142 : THIS COROUTINE IS CALLED TO SEARCH FOR A
0024 143 : COMMAND QUALIFIER IN THE RANGE OF THE CURRENT COMMAND.
0024 144 : THE SEARCH IS DONE OUT TO THE FIRST PARAMETER APPEARING
0024 145 : IN THE COMMAND, THEN FROM THE START OF THE FIRST PARAMETER
0024 146 : IN THE RANGE OF THE CURRENT COMMAND TO THE END OF THE
0024 147 : RANGE OF THE CURRENT COMMAND.
0024 148 :
0024 149 : CALLING SEQUENCE:
0024 150 :
0024 151 : BSB/JSB DCL$LOCCMDQUAL
0024 152 :
0024 153 : INPUT PARAMETERS:
0024 154 :
0024 155 : R1 IS THE CODE OF THE QUALIFIER TO LOCATE
0024 156 :
0024 157 : IMPLICIT INPUTS:
0024 158 :
0024 159 : R8 = ADDRESS OF UTILITY BIT ARRAY
0024 160 : R9 = ADDRESS OF REQUEST DESCRIPTOR
0024 161 : R10 = ADDRESS OF WORK BLOCK
0024 162 : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
0024 163 :
0024 164 : OUTPUT PARAMETERS:
0024 165 :
0024 166 : R4 IS RETURNED AS THE ADDRESS OF THE DESCRIPTOR IF FOUND
0024 167 : R5 IS THE INDEX TO THE DESCRIPTOR IF FOUND
0024 168 :
0024 169 : COMPLETION CODES:
0024 170 :
0024 171 : R0 IS SET TRUE OR FALSE DEPENDING OF SUCCESS OF SEARCH
0024 172 :
0024 173 : SIDE EFFECTS:
0024 174 :
0024 175 : REGISTERS R4, R5 & R6 ARE USED BY THIS ROUTINE
0024 176 : AND MUST BE PRESERVED ACCROSS COROUTINE RETURNS.
0024 177 :
0024 178 :--
0024 179 :
0024 180 DCL$FNDCMDQUAL ::
56 55 01 D0 0024 181 MOVL #1,R5 ; LOCATE THE COMMAND QUALIFIER
08 AA 50 D4 0027 182 MOVAL RPW_G_PRMLIM(R10),R6 ; SET INDEX TO START SEARCH
08 AA 55 91 0028 183 10$: CLRL R0 ; START OF PARAMETER LIMIT DESCRIPTORS
08 AA 0E 1F 002D 184 CMPB R5,RPW_B_STRPARAM(R10) ; ASSUME NO MORE QUALIFIERS
55 01 A6 9A 0031 185 BLSSU 40$ ; THIS DESCRIPTOR IN RANGE OF VERB
02 A6 55 91 0033 186 BNEQ 30$ ; BR IF YES
04 00 1C 12 0035 187 20$: MOVZBL PLM_B_FSTDESC(R6),R5 ; BR IF WITHIN A PARAMETER
00 64 04 13 0039 188 BEQL 70$ ; SET INDEX OF PLACE TO START LOOKING
00 04 1C 10 003B 189 30$: CMPB R5,PLM_B_LSTDESC(R6) ; BR WHEN DONE
00 04 1C 10 003F 190 40$: BSBB DCL$SETDESCADR ; IS THIS WITHIN THE CURRENT PARAMETER?
00 04 1C 10 0041 191 40$: BSBB DCL$SETDESCADR ; BR IF OUT OF RANGE OF THIS PARAMETER
00 04 1C 10 0043 192 CMPZV #PTR_V_TYPE,#PTR_S_TYPE ; SET ADDRESS OF RESULT DESCRIPTOR
00 04 1C 10 0046 193 PTR_C_DESCR(R4),#PTR_K_CMDQUAL ; YIELD LIMITS FOR TYPE
00 04 1C 10 0048 194 BNEQ 50$ ; IF THIS A COMMAND QUALIFIER?
; BR IF NO-CONTINUE SEARCH

```


	50	D6	004A	195	INCL	R0	:	SET SUCCESS
	9E	16	004C	196	JSB	@(SP)+	:	RETURN WITH QUALIFIER
	55	D6	004E	197 50\$:	INCL	R5	:	ADVANCE INDEX TO NEXT DESCRIPTOR
	D9	11	0050	198	BRB	10\$:	CHECK AGAIN
56	04	C0	0052	199 60\$:	ADDL	#PLM_K_SIZE,R6	:	SET TO NEXT PARAMETER LIMIT DESCRIPTOR
	DE	11	0055	200	BRB	20\$:	TRY NEXT PARAMETER
		05	0057	201 70\$:	RSB		:	RETURN WITH VALUE OR ZERO

```

0058 203 .SBTTL EXTRACT RESULT DESCRIPTOR FIELDS
0058 204 :++
0058 205 : FUNCTIONAL DESCRIPTION:
0058 206 :
0058 207 : THIS ROUTINE IS CALLED TO TAKE A RESULT DESCRIPTOR APART
0058 208 : AND RETURN ITS COMPONENT PART AS INDIVIDUAL VALUES.
0058 209 :
0058 210 : CALLING SEQUENCE:
0058 211 :
0058 212 : BSB/JSB DCL$EXTNXTDESC : EXTRACT NEXT DESCRIPTOR
0058 213 : BSB/JSB DCL$GETEXTDESC : GET AND EXTRACT DESCRIPTOR
0058 214 : BSB/JSB DCL$EXTRSLDESC : EXTRACT RESULT DESCRIPTOR
0058 215 :
0058 216 : INPUT PARAMETERS:
0058 217 :
0058 218 : AT EXTRSLDESC WITH R4 CONTAINS THE ADDRESS OF THE DESCRIPTOR
0058 219 : AT EXTNXTDESC WITH R6 CONTAINS THE ADDRESS OF THE PARAMETER
0058 220 : LIMIT DESCRIPTOR.
0058 221 :
0058 222 : IMPLICIT INPUTS:
0058 223 :
0058 224 : R8 = ADDRESS OF UTILITY BIT ARRAY
0058 225 : R9 = ADDRESS OF REQUEST DESCRIPTOR
0058 226 : R10 = ADDRESS OF WORK BLOCK
0058 227 : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
0058 228 :
0058 229 : OUTPUT PARAMETERS:
0058 230 :
0058 231 : R1 = TYPE
0058 232 : R2 = SIZE OR VALUE DEPENDING ON THE DESCRIPTOR
0058 233 : R3 = ADDRESS OF THE ITEM
0058 234 : R4 = ADDRESS OF DESCRIPTOR
0058 235 :
0058 236 : COMPLETION CODES:
0058 237 :
0058 238 : R0 = SUCCESS/FAILURE DEPENDING ON RESULT OF SEARCH
0058 239 :
0058 240 :--
0058 241 : .ENABL LSB
0058 242 :
0058 243 DCL$EXTNXTDESC:: : EXTRACT NEXT COMPLETE DESCRIPTOR
0058 244 SETSTAT FAIL : ASSUME WONT FIND ONE
0058 245 MOVZBL PLM_B_NXTDESC(R6),R5 : SET POINTER TO DESCRIPTOR
0058 246 BEQL 40$ : BR IF PARAMETER SET IS MISSING
0058 247 CMPB R5,PLM_B_LSTDESC(R6) : IS THIS IN RANGE OF CURRENT PARAMETER?
0058 248 BGTRU 40$ : BR IF NO
0058 249 INCB PLM_B_NXTDESC(R6) : ADVANCE INDEX TO NEXT
0058 250 INCL R0 : SET ANY SUCCESSFUL STATUS
0058 251 DCL$GETEXTDESC:: : GET AND EXTRACT NEXT DESCRIPTOR
0058 252 BSBB DCL$SETDESCADR : SET ADDRESS OF RESULT DESCRIPTOR
0058 253 DCL$EXTRSLDESC:: : EXTRACT FOR RESULT DESCRIPTION
0058 254 EXTZV #PTR_V_OFFSET,#PTR_S_OFFSET,- : START BIT AND SIZE OF OFFSET
0058 255 PTR_C_DESCR(R4),R3 : GET OFFSET INTO R3
0058 256 MOVAB WRK_G_BUFFER(R11)[R3],R3 : FIND ADDRESS OF ITEM IN BUFFER
0058 257 EXTZV #PTR_V_VALUE,#PTR_S_VALUE,- : START BIT AND SIZE OF VALUE
0058 258 PTR_C_DESCR(R4),R2 : GET VALUE INTO R2
0058 259 EXTZV #PTR_V_TYPE,#PTR_S_TYPE,- : START BIT AND SIZE OF TYPE

```

RPSUB
V04-000

- DCL RESULT PARSE SUBROUTINES
EXTRACT RESULT DESCRIPTOR FIELDS

I 7

16-SEP-1984 00:14:19 VAX/VMS Macro V04-00
4-SEP-1984 23:43:05 [DCL.SRC]RPSUB.MAR;1

Page 8
(5)

```
51 64 007E 260 PTR_L_DESCR(R4),R1 ; GET TYPE INTO R1
      05 0080 261 40$: RSB ;
      0081 262 ;
      0081 263 .DSABL LSB
```

```

0081 265 .SBTTL SET RESULT DESCRIPTOR ADDRESS
0081 266 :++
0081 267 : FUNCTIONAL DESCRIPTION:
0081 268 :
0081 269 : THIS ROUTINE IS CALLED TO SET THE ADDRESS OF A RESULT
0081 270 : DESCRIPTOR INTO R4.
0081 271 :
0081 272 : CALLING SEQUENCE:
0081 273 :
0081 274 : BSB/JSB DCL$SETDESCADR
0081 275 :
0081 276 : INPUT PARAMETERS:
0081 277 :
0081 278 : R5 CONTAINS THE INDEX FOR THE DESIRED DESCRIPTOR
0081 279 :
0081 280 : IMPLICIT INPUTS:
0081 281 :
0081 282 : R10 = ADDRESS OF WORK BLOCK
0081 283 : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
0081 284 :
0081 285 : OUTPUT PARAMETERS:
0081 286 :
0081 287 : R4 IS LOADED WITH THE ADDRESS OF THE DESCRIPTOR
0081 288 :
0081 289 :--
0081 290
0081 291 DCL$SETDESCADR::
54 55 0C C5 0081 292 MULL3 #PTR_C_LENGTH,R5,R4 ; GET BYTE OFFSET OF DESCRIPTOR
54 F9AA CB44 9E 0085 293 MOVAB WRK_G_RESULT-PTR_C_LENGTH(R11)[R4],R4 ; GET ADDRESS OF DESCRIPTOR
05 008B 294 RSB

```

```

008C 296      .SBTTL GET PARAMETER
008C 297      :++
008C 298      : FUNCTIONAL DESCRIPTION:
008C 299      :
008C 300      : THIS ROUTINE IS CALLED TO SEARCH THE RESULT DESCRIPTOR
008C 301      : BUFFER FOR THE NEXT OCCURANCE OF A PRARMETER
008C 302      :
008C 303      : CALLING SEQUENCE:
008C 304      :
008C 305      : BSB/JSB DCL$GETPARM          ; GET A PARAMETER
008C 306      :
008C 307      : INPUT PARAMETERS:
008C 308      :
008C 309      : R5 CONTAINS THE INDEX OF NEXT DESCRIPTOR TO CHECK
008C 310      :
008C 311      : IMPLICIT INPUTS:
008C 312      :
008C 313      : R8 = ADDRESS OF UTILITY BIT ARRAY
008C 314      : R9 = ADDRESS OF REQUEST DESCRIPTOR
008C 315      : R10 = ADDRESS OF WORK BLOCK
008C 316      : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
008C 317      :
008C 318      : OUTPUT PARAMETERS:
008C 319      :
008C 320      : R1 CONTAINS THE TYPE OF THE DESCRIPTOR(IE:PTR_K_PARAMETR)
008C 321      : R2 CONTAINS THE SIZE OF THE PARAMETER
008C 322      : R3 CONTAINS THE PRECEEDING TERMINATOR
008C 323      : R4 CONTAINS THE ADDRESS OF THE PARAMETER DESCRIPTOR
008C 324      : R5 IS THE INDEX TO THE DESCRIPTOR
008C 325      :
008C 326      : COMPLETION CODES:
008C 327      :
008C 328      : R0 = SUCCESS/FAIL DEPENDING ON THE RESULT OF THE SEARCH
008C 329      :
008C 330      :--
008C 331      :
008C 332      DCL$GETPARM::
008C 333      SETSTAT FAIL          ; GET THE NEXT PARAMETER
008C 334      10$: INCL R5          ; ASSUME NO MORE PARAMETERS
008C 335      BSBB DCL$GETTEXTDESC ; ADVANCE INDEX
008C 336      EXTZV #PTR_V_TERM,#PTR_S_TERM,- ; GET DESCRIPTOR AND EXTRACT FIELDS
008C 337      -PTR_C_LENGTH(R4),R3 ; GET THE TERMINATOR FORM THE PRVIOUS
008C 338      CMPB R1,#PTR_K_ENDLINE ; DESCRIPTOR AND SAVE IN R3
008C 339      BEQL 30$             ; IS THIS THE END OF LINE?
008C 340      CMPB R1,#PTR_K_PARAMETR ; NO MORE PARAMETERS
008C 341      BNEQ 10$             ; IS THE CURRENT A PARAMETER?
008C 342      SETSTAT SUCCESS      ; BR IF NO-TRY NEXT
008C 343      30$: RSB           ; SET FOUND ONE
                                ; RETURN TO CALLER

```

```

00A6 345 .SBTTL RESULT PARSE INIT
00A6 346 :++
00A6 347 : FUNCTIONAL DESCRIPTION:
00A6 348 :
00A6 349 : THIS ROUTINE IS CALLED TO ESTABLISH INITIAL CONDITIONS
00A6 350 : IN THE RESULT PARSE WORK AREA PRIOR TO PERFORMAING
00A6 351 : A RESULT PARSE.
00A6 352 :
00A6 353 : CALLING SEQUENCE:
00A6 354 :
00A6 355 : ENTERED VIA A CASE FOLLOWED BY A CALL
00A6 356 :
00A6 357 : IMPLICIT INPUTS:
00A6 358 :
00A6 359 : R9 = ADDRESS OF REQUEST DESCRIPTOR
00A6 360 : R10 = ADDRESS OF WORK BLOCK
00A6 361 : R11 = ADDRESS OF PASS 1 PARSE WORK AREA
00A6 362 :
00A6 363 : OUTPUT PARAMETERS:
00A6 364 :
00A6 365 : THE RESULT PARSE WORK AREA IS INITED
00A6 366 :
00A6 367 : COMPLETION CODES:
00A6 368 :
00A6 369 : R0 = SUCCESS
00A6 370 :
00A6 371 :--
00A6 372 :
00A6 373 DCL$RPINIT::
00A6 374 BSBB DCL$GETDCLWRK : RESULT APRSE INIT
00A6 375 MOVCS #0,(R10),#0,- : GET POINTER TO DCL PHASE 1 WORK AREA
00A6 376 #CLISC WORKAREA-4,4(R10) : SOURCE BUFFER SIZE AND FILL OF 0 TO
00A6 377 R11,RPW_L_DCLWRK(R10) : ZERO OUT THE WORK AREA
00A6 378 MOVL WRK_L_PROPTR(R11),R7 : SAVE WORK AREA ADDRESS FOR LATER
00A6 379 MOVAL RPW_G_PRMLIM(R10),R6 : GET ADDRESS OF COMMAND PROMPT TABLE
00A6 380 CLRL R5 : GET ADDRESS OF FIRST PARAM LIMIT TABLE
00A6 381 BSBB DCL$GETPARM : INIT INDEX TO MINUS FIRST DESCRIPTOR
00A6 382 MOVB R5,RPW_B_STRPARM(R10) : RETREIVE THE NEXT(FIRST)PARAMETER
00A6 383 BLBC R0,90$ : SAVE THE INDEX TO THE FIRST PARAMETER
00A6 384 10$: MOVB R5,PLM_B_FSTDESC(R6) : BR IF NO PARAMETERS IN COMMAND
00A6 385 MOVB R5,PLM_B_NXTDESC(R6) : SET FIRST PARAMETER IN THIS LIST
00A6 386 20$: BSBB DCL$GETPARM : ALSO THE NEXT TO PROCESS
00A6 387 SUBB3 #1,R5,PLM_B_LSTDESC(R6) : LOCATE THE NEXT PARAMETER IN THE CMD
00A6 388 BLBC R0,90$ : SET INDEX OF THE LAST PARAMETER SEEN
00A6 389 CMPB R3,#PTR_K_BLANK : BR IF NO MORE
00A6 390 BEQL 50$ : BR IF YES
00A6 391 BBS #ENT V IMPCAT,- : IF COMMAND HAS IMPLIED CONCATONATION
00A6 392 ENT Q FLAGS(R7),20$ : THEN KEEP LOOKING TILL END OF PARAMETER
00A6 393 CMPB R3,#PTR_K_COMMA : ELSE LOOK FOR PARAMETER LIST SEPARATOR
00A6 394 BNEQ 20$ : IF NO A SEPARATOR, CONTINUE SCAN
00A6 395 40$: CMPB R3,#PTR_K_BLANK : SCAN FOR LAST PARAMETER IN THE LIST
00A6 396 BEQL 50$ : BR IF FOUND LAST PARAMETER
00A6 397 BSBB DCL$GETPARM : SEARCH FOR NEXT PARAMETER
00A6 398 BLBC R0,90$ : BR IF RAN OUT OF PARAMETERS
00A6 399 BRB 40$ : CHECK FOR BLANKS
00A6 400 50$: ADDL3 ENT_L_NEXT(R7),- : SKIP TO NEXT DESCRIPTOR
00A6 401 WRK_L_TAB_VEC(R11),R7 :

```


CLISC WORKAREA	= 00000080			PRC_L_OUTRABCTX	00000118
CLISGET PRC	*****	X	02	PRC_L_PPFLIST	00000070
CLIS_INVQUALNUM	= 0003881A			PRC_L_RECALLPTR	0000012F
DCLSEXTNXTDESC	00000058	RG	02	PRC_L_RESTART	00000058
DCLSEXTRSLDESC	0000006B	RG	02	PRC_L_SAVAP	00000000
DCLSFNDCMDQUAL	00000024	RG	02	PRC_L_SAVFP	00000004
DCLSGETDCLWRK	0000010A	RG	02	PRC_L_SEVERITY	00000050
DCLSGETEXTDESC	00000069	RG	02	PRC_L_SPWN	000000C0
DCLSGETPARM	0000008C	RG	02	PRC_L_STACKLM	000000A4
DCLSGETPARMQUAL	00000000	RG	02	PRC_L_STACKPT	000000A0
DCLSGETQUALDESC	00000000	RG	02	PRC_L_STATUS	00000054
DCLSRPINIT	000000A6	RG	02	PRC_L_STS	00000084
DCLSETDESCADR	00000081	RG	02	PRC_L_STV	00000088
ENT_L_NEXT	= 00000008			PRC_L_SYMBOL	00000060
ENT_V_IMPCAT	= 00000007			PRC_L_TMBX	00000074
ENT_W_FLAGS	= 00000004			PRC_L_TRMLIST	00000010
PLM_B_FSTDESC	00000001			PRC_Q_ALLOCREG	00000020
PLM_B_LSTDESC	00000002			PRC_Q_COMMAND	000000E0
PLM_B_NXTDESC	00000000			PRC_Q_FLUSHTIME	000000D0
PLM_B_QUADESC	00000003			PRC_Q_GLOBAL	00000028
PLM_B_TRMDESC	00000003			PRC_Q_IMAGENAME	000000D8
PLM_C_SIZE	00000004			PRC_Q_KEYPAD	00000040
PLM_K_SIZE	00000004			PRC_Q_LABEL	00000030
PRC_B_CONTINUE	000000F3			PRC_Q_LOCAL	00000038
PRC_B_DEFRADIX	000000AE			PRC_Q_SAVEPRIV	000000E8
PRC_B_EXMDEPMOD	000000AD			PRC_T_OUTDVI	0000011C
PRC_B_EXMDEPWID	000000AC			PRC_W_ASTIOSB	000000C6
PRC_B_EXONLYL	0000012D			PRC_W_ASTRETN	000000C8
PRC_B_FLAGS2	000000AF			PRC_W_ASTSTATUS	000000C4
PRC_B_IMGFLAG	00000078			PRC_W_ATTMBX	0000007A
PRC_B_OUTFLAGS	0000012C			PRC_W_FLAGS	00000068
PRC_B_PROMPTLEN	000000F0			PRC_W_INPCHAN	00000064
PRC_C_LENGTH	00000534			PRC_W_ONLEVEL	0000006A
PRC_G_COMMANDS	00000133			PRC_W_OUTIFI	00000114
PRC_G_PROMPT	000000F4			PRC_W_OUTISI	00000116
PRC_K_LENGTH	00000534			PRC_W_OUTMBXCHN	000000CA
PRC_L_CURRKEY	00000048			PRC_W_OUTMBXREF	000000CE
PRC_L_EXMDEPADR	000000A8			PRC_W_OUTMBXSIZ	000000CC
PRC_L_EXTARG	00000094			PRC_W_PMPCTRL	000000F1
PRC_L_EXTBLK	0000008C			PRC_W_WAITIOSB	00000066
PRC_L_EXTCOD	0000009C			PTR_B_LEVEL	00000004
PRC_L_EXTHND	00000090			PTR_B_NUMBER	00000005
PRC_L_EXTPRM	00000098			PTR_B_PARMCNT	00000006
PRC_L_IDFLNK	000000BC			PTR_B_VALUE	00000000
PRC_L_IMGACTSTS	00000080			PTR_C_LENGTH	0000000C
PRC_L_INDCLOCK	0000007C			PTR_K_BLANK	= 00000001
PRC_L_INDEPTH	0000005C			PTR_K_CMDQUAL	= 00000000
PRC_L_INDFAB	0000001C			PTR_K_COMMA	= 00000005
PRC_L_INDINPRAB	00000014			PTR_K_ENDLINE	= 00000004
PRC_L_INDOURAB	00000018			PTR_K_LENGTH	0000000C
PRC_L_INPRAB	00000008			PTR_K_PARAMETR	= 00000003
PRC_L_LASTKEY	0000004C			PTR_L_DESCR	00000000
PRC_L_LSTSTATUS	000000B0			PTR_L_ENTITY	00000008
PRC_L_ONCTLY	00000088			PTR_S_OFFSET	= 0000000C
PRC_L_ONERROR	0000006C			PTR_S_TERM	= 00000004
PRC_L_OUTOFBAND	00000084			PTR_S_TYPE	= 00000004
PRC_L_OUTRAB	0000000C			PTR_S_VALUE	= 00000008

RPSUB
Symbol table

- DCL RESULT PARSE SUBROUTINES

B 8

16-SEP-1984 00:14:19
4-SEP-1984 23:43:05

VAX/VMS Macro V04-00
[DCL.SRC]RPSUB.MAR;1

Page 14
(8)

PTR_V_OFFSET	= 000C0009
PTR_V_TERM	= 00000018
PTR_V_TYPE	= 0000001C
PTR_V_VALUE	= 00000000
RPW_B_LSTDESC	00000009
RPW_B_STRPARG	00000008
RPW_C_HDRSIZ	00000040
RPW_C_LENGTH	00000080
RPW_G_BITS	00000020
RPW_G_PRMLIM	00000040
RPW_K_HDRSIZ	00000040
RPW_K_LENGTH	00000080
RPW_L_DCLWRK	00000004
RPW_L_USERCTX	00000000
WRK_B_CMDOPT	FFFFFFFFC3
WRK_B_MAXPARG	FFFFFFFFD0
WRK_B_MINPARG	FFFFFFFFD1
WRK_B_PARGCNT	FFFFFFFFCE
WRK_B_PARGSUM	FFFFFFFFCF
WRK_B_RECALLCNT	FFFFFFFFC5
WRK_B_VALLEV	FFFFFFFFC4
WRK_B_VERBTYP	FFFFFFFFC2
WRK_C_LENGTH	FFFFFF486
WRK_G_BUFFER	FFFFFF492
WRK_G_INPBUF	FFFFFF896
WRK_G_RESULT	FFFFFF9B6
WRK_K_LENGTH	FFFFFF486
WRK_L_CHARPTR	FFFFFF48E
WRK_L_DISALLOW	FFFFFFFE6
WRK_L_ERRORRTN	FFFFFF9AE
WRK_L_EXPANDPTR	FFFFFF486
WRK_L_IMAGE	FFFFFFFE2
WRK_L_MARKPTR	FFFFFF48A
WRK_L_PARGOUT	FFFFFFD02
WRK_L_PARGADDR	FFFFFF9A2
WRK_L_PROMPTRTN	FFFFFF9A6
WRK_L_PROPTR	FFFFFFFC6
WRK_L_QUABLK	FFFFFFCA
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_SPECRTN	FFFFFF9B2
WRK_L_TAB_VEC	FFFFFFFE
WRK_L_VERB	FFFFFFBE
WRK_W_FLAGS	FFFFFFF0
WRK_W_FLAGS2	FFFFFFF2
WRK_W_IMGCHAN	FFFFFFFE
WRK_W_PARGLEN	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	FFFFFFFFC (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
DCL\$ZCODE	00000115 (277.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.11	00:00:00.42
Command processing	83	00:00:00.81	00:00:05.05
Pass 1	250	00:00:09.13	00:00:22.27
Symbol table sort	0	00:00:01.20	00:00:02.81
Pass 2	72	00:00:01.69	00:00:06.40
Symbol table output	20	00:00:00.16	00:00:00.68
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	436	00:00:13.14	00:00:37.67

The working set limit was 1200 pages.
45492 bytes (89 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 815 non-local and 18 local symbols.
415 source lines were read in Pass 1, producing 13 object records in Pass 2.
34 pages of virtual memory were used to define 20 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	8
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	12

956 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

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

The image displays a grid of 150 terminal windows, arranged in 10 rows and 15 columns. Each window shows a different terminal session with various system commands and their outputs. The windows are densely packed and contain a mix of text, including command names, status messages, and data lists. Some windows are clearly labeled with command names:

- SHOW LIS (top row, 10th window)
- RPDCL LIS (2nd row, 4th window)
- SET LIS (2nd row, 10th window)
- SPAWN LIS (7th row, 10th window)
- RPSUB LIS (9th row, 10th window)

The text in the windows is small and difficult to read in detail, but it appears to be a collection of system-related information, possibly for a manual or a reference document. The overall appearance is that of a multi-terminal screenshot from a VAX/VMS system.