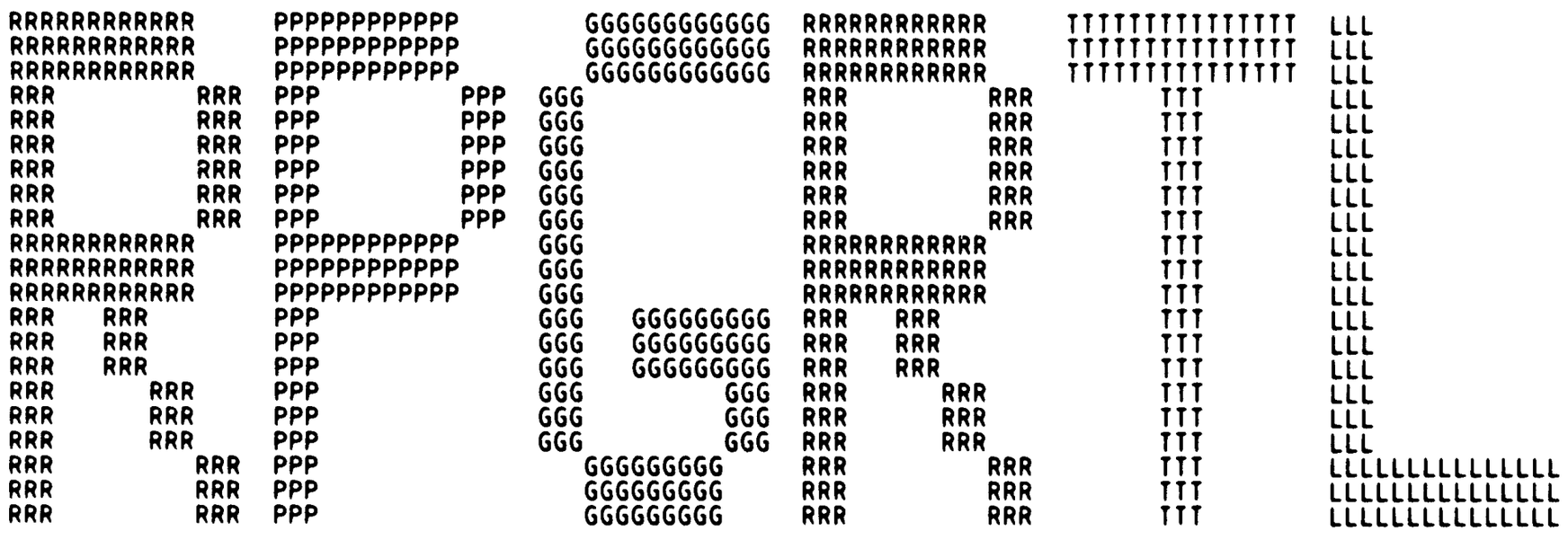
RRRRRRRRRRR PPPPPPPPPPPP GGGGGGGGGGG RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
RRR RRR PPP PPP GGG RRR RRR TTT LLL
RRRRRRRRRRR PPPPPPPPPPP GGG RRRRRRRRRRR TTT LLL
RRR RRR PPP GGG GGGGGGGGG RRR RRR TTT LLL
RRR RRR PPP GGG GGGGGGGGG RRR RRR TTT LLL
RRR RRR PPP GGG GGG RRR RRR TTT LLL
RRR RRR PPP GGG GGG RRR RRR TTT LLL
RRR RRR PPP GGG GGG RRR RRR TTT LLLLLLLLLLLLLLL
RRR RRR PPP GGGGGGGGG RRR RRR TTT LLLLLLLLLLLLLLL
RRR RRR PPP GGGGGGGGG RRR RRR TTT LLLLLLLLLLLLLLL

```
RRRRRRRR    PPPPPPPP      GGGGGGGG    SSSSSSSS    QQQQQQ    RRRRRRRR    TTTTTTTTTT
RRRRRRRR    PPPPPPPP      GGGGGGGG    SSSSSSSS    QQQQQQ    RRRRRRRR    TTTTTTTTTT
RR      RR  PP      PP  GG          SS          QQ      QQ  RR      RR      TT
RR      RR  PP      PP  GG          SS          QQ      QQ  RR      RR      TT
RR      RR  PP      PP  GG          SS          QQ      QQ  RR      RR      TT
RR      RR  PP      PP  GG          SS          QQ      QQ  RR      RR      TT
RRRRRRRR    PPPPPPPP    GG            SSSSSS    QQ      QQ  RRRRRRRR        TT
RRRRRRRR    PPPPPPPP    GG            SSSSSS    QQ      QQ  RRRRRRRR        TT
RR  RR      PP          GG  GGGGGG          SS  QQ  QQ  QQ  RR  RR          TT
RR  RR      PP          GG  GGGGGG          SS  QQ  QQ  QQ  RR  RR          TT
RR    RR    PP          GG      GG          SS  QQ    QQ    RR    RR        TT          ....
RR    RR    PP          GG      GG          SS  QQ    QQ    RR    RR        TT          ....
RR      RR  PP            GGGGGG    SSSSSSSS      QQQQ  QQ  RR      RR      TT          ....
RR      RR  PP            GGGGGG    SSSSSSSS      QQQQ  QQ  RR      RR      TT          ....


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
```

```
;     1          0001  0 MODULE RPG$SQRT ( %TITLE 'Get square root'
;     2          0002  0                  IDENT = '1-002'          . file: RPGSQRT.B32 EDIT:DG1002
;     3          0003  0                  ) =
;     4          0004  1 BEGIN
;     5          0005  1 !
;     6          0006  1 !*****************************************************************************
;     7          0007  1 !*                                                                           *
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;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
;    25          0025  1 !*                                                                           *
;    26          0026  1 !*                                                                           *
;    27          0027  1 !*****************************************************************************
;    28          0028  1 !
;    29          0029  1 !
;    30          0030  1 !
;    31          0031  1 !++
;    32          0032  1 ! FACILITY:     RPGII SUPPORT
;    33          0033  1 !
                0034  1 ! ABSTRACT
;    35          0035  1 !
;    36          0036  1 !       This routine supports the RPG SQRT opcode.
;    37          0037  1 !
;    38          0038  1 !
;    39          0039  1 ! ENVIRONMENT:  Vax-11 User Mode
;    40          0040  1 !
;    41          0041  1 ! AUTHOR: Debess Grabazs, CREATION DATE: 8-Feb-1983
;    42          0042  1 !
;    43          0043  1 ! MODIFIED BY:
;    44          0044  1 !
;    45          0045  1 ! 1-001 - Original. DG 8-Feb-1983
;    46          0046  1 ! 1-002 - Error RPG$_INVDATTYP changed to RPG$_INVARG. DG 11-Jul-1983
;    47          0047  1 !--
;    48          0048  1
;    49          0049  1 !<BLF/PAGE>
```

```
;    51          0050  1 %SBTTL 'Declarations'
;    52          0051  1 !+
;    53          0052  1 ! PROLOGUE FILE:
;    54          0053  1 !-
;    55          0054  1
;    56          0055  1 REQUIRE 'RTLIN:RPGPROLOG';                    ! Switches, PSECTs, macros,
;    57          0120  1                                              !  linkages and LIBRARYs
;    58          0121  1
;    59          0122  1 !+
;    60          0123  1 ! LINKAGES
;    61          0124  1 !       NONE
;    62          0125  1 !-
;    63          0126  1
;    64          0127  1 !+
;    65          0128  1 ! TABLE OF CONTENTS:
;    66          0129  1 !-
;    67          0130  1
;    68          0131  1 FORWARD ROUTINE
;    69          0132  1         RPG$SQRT : NOVALUE ;
;    70          0133  1
;    71          0134  1 !+
;    72          0135  1 ! INCLUDE FILES
;    73          0136  1 !       NONE
;    74          0137  1 !-
;    75          0138  1
;    76          0139  1 !+
;    77          0140  1 ! MACROS
;    78          0141  1 !       NONE
;    79          0142  1 !-
;    80          0143  1
;    81          0144  1 !+
;    82          0145  1 ! EQUATED SYMBOLS
;    83          0146  1 !       NONE
;    84          0147  1 !-
;    85          0148  1
;    86          0149  1 !+
;    87          0150  1 ! EXTERNAL REFERENCES
;    88          0151  1 !-
;    89          0152  1
;    90          0153  1 EXTERNAL ROUTINE
;    91          0154  1         COB$CVTID_R7: JSB_67,                ! Convert CIT to D_floating
;    92          0155  1         COB$CVTLI_R8: JSB_678,               ! Convert long to CIT (with scaling)
;    93          0156  1         COB$CVTPD_R9: JSB_6789,              ! Convert packed to D_floating
;    94          0157  1         COB$CVTRDP_R9: JSB_6789,             ! Convert D_floating to packed
;    95          0158  1         COB$CVTWI_R8: JSB_678,               ! Convert word to CIT (with scaling)
;    96          0159  1         LIB$STOP,                            ! Stop execution via signalling
;    97          0160  1         MTH$DSQRT_R5: JSB_D;                 ! Square root of D_floating
;    98          0161  1
;    99          0162  1 EXTERNAL LITERAL
;   100          0163  1         MTH$_SQUROONEG,                      ! Square root of negative number
;   101          0164  1         RPG$_INVARG;                         ! Invalid data type
;   102          0165  1
;   103          0166  1 EXTERNAL
;   104          0167  1         LIB$AB_CVTTP_0,                      ! Table for convert trailing to packed
;   105          0168  1         RPG$BTZ;                             ! Table for translate blank to zero
```

```
;  107     0169  1 %SBTTL 'RPG$SQRT - Get square root'
;  108     0170  1 GLOBAL ROUTINE RPG$SQRT(
;  109     0171  1                         FLAGS,                          ! Translation flag
;  110     0172  1                         NUMBER: REF BLOCK[,BYTE],       ! Argument for square root operation
;  111     0173  1                         RESULT: REF BLOCK[,BYTE]        ! Result of square root operation
;  112     0174  1                         ): NOVALUE=
;  113     0175  1
;  114     0176  1 !++     FUNCTIONAL DESCRIPTION
;  115     0177  1 !
;  116     0178  1 !       This routine supports the RPG SQRT opcode.  It is
;  117     0179  1 !       called once by the compiled code for each occurrence
;  118     0180  1 !       of the SQRT opcode for scalars, or once for each
;  119     0181  1 !       element of an array.
;  120     0182  1 !       It accepts an input number of word, long, packed, or
;  121     0183  1 !       right overpunched numeric data type; and outputs a
;  122     0184  1 !       packed result.
;  123     0185  1 !
;  124     0186  1 ! CALLING SEQUENCE:
;  125     0187  1 !
;  126     0188  1 !       CALL RPG$SQRT (flags.rl.v, number.rx.ds, result.wp.ds)
;  127     0189  1 !
;  128     0190  1 ! FORMAL PARAMETERS:
;  129     0191  1 !
;  130     0192  1 !       flags           longword integer - bit 1 set if blanks in
;  131     0193  1 !                       overpunched numeric field should be treated
;  132     0194  1 !                       as equivalent to zeroes; otherwise the
;  133     0195  1 !                       translation is not done.
;  134     0196  1 !
;  135     0197  1 !       number          address of descriptor of argument for square
;  136     0198  1 !                       root operation.
;  137     0199  1 !                       The allowable data types are word, long,
;  138     0200  1 !                       packed, and right overpunched numeric.
;  139     0201  1 !
;  140     0202  1 !       result          address of descriptor of result of the square
;  141     0203  1 !                       root operation.
;  142     0204  1 !                       The allowable data type is packed.
;  143     0205  1 !
;  144     0206  1 ! IMPLICIT INPUTS:
;  145     0207  1 !
;  146     0208  1 !       NONE
;  147     0209  1 !
;  148     0210  1 ! IMPLICIT OUTPUTS:
;  149     0211  1 !
;  150     0212  1 !       NONE
;  151     0213  1 !
;  152     0214  1 ! COMPLETION CODES:
;  153     0215  1 !
;  154     0216  1 !       SS$_NORMAL
;  155     0217  1 !
;  156     0218  1 ! SIDE EFFECTS:
;  157     0219  1 !
;  158     0220  1 !       If NUMBER is negative, the result field is set to zero and the
;  159     0221  1 !       error MTH$_SQUROONEG is signalled.
;  160     0222  1 !
;  161     0223  1 !--
;  162     0224  1 !
;  163     0225  1
```

```
;  164          0226  1 !<BLF/PAGE>
```

```
;  166     0227  1
;  167     0228  2      BEGIN
;  168     0229  2
;  169     0230  2      LITERAL
;  170     0231  2          BTZ_BIT = 2,                                ! Convert blanks to zeroes
;  171     0232  2          MAX_PACKED_LEN = 15;                        ! Maximum allowed packed decimal number length
;  172     0233  2
;  173     0234  2      LOCAL
;  174     0235  2          D_VALUE:        VECTOR[2],                  ! Input number converted to D_floating
;  175     0236  2          D_SQRT:         VECTOR[2],                  ! D_floating square root result
;  176     0237  2          I_VALUE:        VECTOR[12, BYTE],           ! COBOL intermediate temporary
;  177     0238  2          PACKED_LENGTH,
;  178     0239  2          PACKED_NUMBER:  VECTOR [MAX_PACKED_LEN/2 + 1, BYTE],
;  179     0240  2                                                      ! Packed decimal number
;  180     0241  2          SCALE;                                      ! Scale factor
;  181     0242  2
;  182     0243  2      BUILTIN
;  183     0244  2          CVTTP;                                      ! Convert trailing to packed
;  184     0245  2
;  185     0246  2      !+
;  186     0247  2      !
;  187     0248  2      ! Get the scale factor.
;  188     0249  2      !
;  189     0250  2      !-
;  190     0251  3      SCALE = (IF .NUMBER[DSC$B_CLASS] EQL DSC$K_CLASS_SD
;  191     0252  3               THEN .NUMBER[DSC$B_SCALE]
;  192     0253  2               ELSE 0);
;  193     0254  2
;  194     0255  2      !+
;  195     0256  2      !
;  196     0257  2      ! Convert the input number to D_floating
;  197     0258  2      !
;  198     0259  2      !-
;  199     0260  2      SELECTONE .NUMBER[DSC$B_DTYPE] OF
;  200     0261  2          SET
;  201     0262  2          [DSC$K_DTYPE_W]:        ! Word
;  202     0263  3              BEGIN
;  203     0264  3
;  204     0265  3              !+
;  205     0266  3              ! Convert word to CIT to d_floating
;  206     0267  3              ! (so scale doesn't get lost).
;  207     0268  3              !-
;  208     0269  3              COB$CVTWI_R8 (.SCALE, .NUMBER[DSC$A_POINTER], I_VALUE);
;  209     0270  3              COB$CVTID_R7 (I_VALUE, D_VALUE);
;  210     0271  3
;  211     0272  2              END;
;  212     0273  2          [DSC$K_DTYPE_L]:        ! Long
;  213     0274  3              BEGIN
;  214     0275  3
;  215     0276  3              !+
;  216     0277  3              ! Convert long to CIT to d_floating
;  217     0278  3              ! (so scale doesn't get lost).
;  218     0279  3              !-
;  219     0280  3              COB$CVTLI_R8 (.SCALE, .NUMBER[DSC$A_POINTER], I_VALUE);
;  220     0281  3              COB$CVTID_R7 (I_VALUE, D_VALUE);
;  221     0282  3
;  222     0283  2              END;
```

```
;  223          0284  2          [DSC$K_DTYPE_P]:        ! Packed
;  224          0285  2
;  225          0286  2              COB$CVTPD_R9 (.SCALE, .NUMBER[DSC$W_LENGTH], .NUMBER[DSC$A_POINTER], D_VALUE);
;  226          0287  2
;  227          0288  2          [DSC$K_DTYPE_NRO]:      ! Right overpunched numeric
;  228          0289  3              BEGIN
;  229          0290  3
;  230          0291  3              IF (.FLAGS AND BTZ_BIT) NEQ 0
;  231          0292  3              THEN
;  232          0293  3                  !+
;  233          0294  3                  ! Translate blanks to zeroes if flag set.
;  234          0295  3                  !-
;  235          0296  3                  CH$TRANSLATE (RPG$BTZ, .NUMBER[DSC$W_LENGTH], .NUMBER[DSC$A_POINTER],
;  236          0297  3                                0, .NUMBER[DSC$W_LENGTH], .NUMBER[DSC$A_POINTER]);
;  237          0298  3              !+
;  238          0299  3              ! Convert trailing to packed to d_floating.
;  239          0300  3              !-
;  240          0301  3              PACKED_LENGTH = MAX_PACKED_LEN;
;  241          0302  3              CVTTP (NUMBER[DSC$W_LENGTH], .NUMBER[DSC$A_POINTER], LIB$AB_CVTTP_0, PACKED_LENGTH, PACKED_NUMBE
;  242          0303  3              COB$CVTPD_R9 (.SCALE, MAX_PACKED_LEN, PACKED_NUMBER, D_VALUE);
;  243          0304  3
;  244          0305  2              END;
;  245          0306  2          [OTHERWISE]:
;  246          0307  2
;  247          0308  2              LIB$STOP (RPG$_INVARG);
;  248          0309  2
;  249          0310  2          TES;
;  250          0311  2
;  251          0312  2      !+
;  252          0313  2      !
;  253          0314  2      ! Take the square root of the D_floating value and
;  254          0315  2      ! convert the result to the output data type (packed)
;  255          0316  2      !
;  256          0317  2      !-
;  257          0318  2      MTH$DSQRT_R5 (.D_VALUE[0], .D_VALUE[1], D_SQRT[0], D_SQRT[1]);
;  258          0319  3      SCALE = (IF .RESULT[DSC$B_CLASS] EQL DSC$K_CLASS_SD                                                  ; F
;  259          0320  3               THEN .RESULT[DSC$B_SCALE]
;  260          0321  2               ELSE 0);
;  261          0322  2      COB$CVTRDP_R9 (-.SCALE, D_SQRT, .RESULT[DSC$W_LENGTH], .RESULT[DSC$A_POINTER]);                      ;
;  262          0323  2                                                                                                           ;
;  263          0324  1      END;


                                                        .TITLE  RPG$SQRT Get square root
                                                        .IDENT  \1-002\

                                                        .EXTRN  COB$CVTID_R7, COB$CVTLI_R8                                      ;
                                                        .EXTRN  COB$CVTPD_R9, COB$CVTRDP_R9                                     ;
                                                        .EXTRN  COB$CVTWI_R8, LIB$STOP                                          ;
                                                        .EXTRN  MTH$DSQRT_R5, MTH$_SQUROONEG                                    ;
                                                        .EXTRN  RPG$_INVARG, LIB$AB_CVTTP_0                                     ;
                                                        .EXTRN  RPG$BTZ

                                                        .PSECT  _RPG$CODE,NOWRT,  SHR,  PIC,2

                                    0FFC 00000          .ENTRY  RPG$SQRT, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-; 0170               ;
                                                                R11                                                             ;
```

```
                                     5E      24  C2 00002        SUBL2   #36, SP                                            ;
                                     5A  08  AC  D0 00005        MOVL    NUMBER, R10                                        ; 0251
                                     09  03  AA  91 00009        CMPB    3(R10), #9                                         ;
                                             06  12 0000D        BNEQ    1$                                                 ;
                                     5B  08  AA  98 0000F        CVTBL   8(R10), SCALE                                      ; 0252
                                             02  11 00013        BRB     2$                                                 ;
                                             5B  D04 00015 1$:    CLRL    SCALE                                              ; 0251
                                     50  02  AA  9A 00017 2$:    MOVZBL  2(R10), R0                                         ; 0260
                                     07      50  91 0001B        CMPB    R0, #7                                             ; 0262
                                             13  12 0001E        BNEQ    3$                                                 ;
                                     58  08  AE  9E 00020        MOVAB   I_VALUE, R8                                        ; 0269
                                     57  04  AA  D0 00024        MOVL    4(R10), R7                                         ;
                                     56      5B  D0 00028        MOVL    SCALE, R6                                          ;
                               00000000G     00  16 0002B        JSB     COB$CVTWI_R8                                       ;
                                             16  11 00031        BRB     4$                                                 ; 0270
                                     08      50  91 00033 3$:    CMPB    R0, #8                                             ; 0273
                                             21  12 00036        BNEQ    5$                                                 ;
                                     58  08  AE  9E 00038        MOVAB   I_VALUE, R8                                        ; 0280
                                     57  04  AA  D0 0003C        MOVL    4(R10), R7                                         ;
                                     56      5B  D0 00040        MOVL    SCALE, R6                                          ;
                               00000000G     00  16 00043        JSB     COB$CVTLI_R8                                       ;
                                     57  1C  AE  9E 00049 4$:    MOVAB   D_VALUE, R7                                        ; 0281
                                     56  08  AE  9E 0004D        MOVAB   I_VALUE, R6                                        ;
                               00000000G     00  16 00051        JSB     COB$CVTID_R7                                       ;
                                             58  11 00057        BRB     10$                                                ; 0260
                                     15      50  91 00059 5$:    CMPB    R0, #21                                            ; 0284
                                             0D  12 0005C        BNEQ    6$                                                 ;
                                     59  1C  AE  9E 0005E        MOVAB   D_VALUE, R9                                        ; 0286
                                     58  04  AA  D0 00062        MOVL    4(R10), R8                                         ;
                                     57      6A  3C 00066        MOVZWL  (R10), R7                                          ;
                                             2E  11 00069        BRB     8$                                                 ;
                                     13      50  91 0006B 6$:    CMPB    R0, #19                                            ; 0288
                                             34  12 0006E        BNEQ    9$                                                 ;
                        0D           6C      21  E1 00070        BBC     #33, FLAGS, 7$                                     ; 0291
00000000G  00           00       04  BA      6A  2E 00074        MOVTC   (R10), @4(R10), #0, RPG$BTZ, (R10), @4(R10)        ; 0297
                                 04  BA      6A     0007E                                                                   ;
                                     50      0F  D0 00081 7$:    MOVL    #15, PACKED_LENGTH                                 ; 0301
       50 00000000G     00       04  BA      6A  26 00084        CVTTP   (R10), @4(R10), LIB$AB_CVTTP_O, -                  ; 0302
                                             6E     0008E                PACKED_LENGTH, PACKED_NUMBER                       ;
                                     59  1C  AE  9E 0008F        MOVAB   D_VALUE, R9                                        ; 0303
                                     58      6E  9E 00093        MOVAB   PACKED_NUMBER, R8                                  ;
                                     57      0F  D0 00096        MOVL    #15, R7                                            ;
                                     56      5B  D0 00099 8$:    MOVL    SCALE, R6                                          ;
                               00000000G     00  16 0009C        JSB     COB$CVTPD_R9                                       ;
                                             0D  11 000A2        BRB     10$                                                ; 0260
                               00000000G     8F  DD 000A4 9$:    PUSHL   #RPG$_INVARG                                       ; 0308
                          00000000G  00      01  FB 000AA        CALLS   #1, LIB$STOP                                       ;
                                     50  1C  AE  7D 000B1 10$:   MOVQ    D_VALUE, R0                                        ; 0318
                               00000000G     00  16 000B5        JSB     MTH$DSQRT_R5                                       ;
                                 14  AE      50  7D 000BB        MOVQ    R0, D_SQRT                                         ;
                                     50  0C  AC  D0 000BF        MOVL    RESULT, R0                                         ; 0319
                                     09  03  A0  91 000C3        CMPB    3(R0), #9                                          ;
                                             06  12 000C7        BNEQ    11$                                                ;
                                     5B  08  A0  98 000C9        CVTBL   8(R0), SCALE                                       ; 0320
                                             02  11 000CD        BRB     12$                                                ;
                                             5B  D4 000CF 11$:   CLRL    SCALE                                              ; 0319
                                     57  14  AE  9E 000D1 12$:   MOVAB   D_SQRT, R7                                         ; 0322
```

```
                                 56          5B  CE 000D5          MNEGL   SCALE, R6                                    ;
                                 59       04 A0  D0 000D8          MOVL    4(R0), R9                                    ;
                                 58          60  3C 000DC          MOVZWL  (R0), R8                                     ;
                              00000000G      00  16 000DF          JSB     COB$CVTRDP_R9                                ;
                                             04 000E5          RET                                                  ; 0324

; Routine Size:  230 bytes,    Routine Base:  _RPG$CODE + 0000

;  264          0325  1
;  265          0326  0 END ELUDOM



;                                   PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  _RPG$CODE                     230  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)



;                               Library Statistics
;
;                                       -------- Symbols --------      Pages       Processing
;       File                            Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1     9776        10         0         581        00:00.9
;  _$255$DUA28:[RPGRTL.OBJ]RPGLIB.L32;1    54         4         7           9        00:00.1



;                                   COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:RPGSQRT/OBJ=OBJ$:RPGSQRT MSRC$:RPGSQRT/UPDATE=(ENH$:RPGSQRT)

; Size:         230 code + 0 data bytes
; Run Time:       00:06.1
; Elapsed Time:   00:18.3
; Lines/CPU Min:   3217
; Lexemes/CPU-Min: 13430
; Memory Used:  91 pages
; Compilation Complete
```

RPGMSGTXT
LIS

DTE_DF03
MAP

RPGMOVE3
LIS

RPGSORT
LIS

RPGOPEN
LIS

RTPAD

CTDRIVER
MAP

RTPAD
MAP

RTPADMACS
MAR

RPGMSGPTR
LIS

RPGVECTOR
LIS

RPGPRINT
LIS

RPGUDATE
LIS

RTDEF
SDL

DTE_DF03
MAR

CTDRIVER
LIS