```
MMM          MMM  TTTTTTTTTTTTTTT   HHH          HHH  RRRRRRRRRRR     TTTTTTTTTTTTTTT   LLL
MMM          MMM  TTTTTTTTTTTTTTT   HHH          HHH  RRRRRRRRRRRR    TTTTTTTTTTTTTTT   LLL
MMM          MMM  TTTTTTTTTTTTTTT   HHH          HHH  RRRRRRRRRRRR    TTTTTTTTTTTTTTT   LLL
MMMMMM    MMMMMM        TTT         HHH          HHH  RRR         RRR       TTT         LLL
MMMMMM    MMMMMM        TTT         HHH          HHH  RRR         RRR       TTT         LLL
MMMMMM    MMMMMM        TTT         HHH          HHH  RRR         RRR       TTT         LLL
MMM   MMM   MMM         TTT         HHH          HHH  RRR         RRR       TTT         LLL
MMM   MMM   MMM         TTT         HHH          HHH  RRR         RRR       TTT         LLL
MMM   MMM   MMM         TTT         HHH          HHH  RRR         RRR       TTT         LLL
MMM         MMM         TTT         HHHHHHHHHHHHHHHH  RRRRRRRRRRR           TTT         LLL
MMM         MMM         TTT         HHHHHHHHHHHHHHHH  RRRRRRRRRRRR          TTT         LLL
MMM         MMM         TTT         HHHHHHHHHHHHHHHH  RRRRRRRRRRRR          TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR   RRR             TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR   RRR             TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR   RRR             TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR      RRR          TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR      RRR          TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR      RRR          TTT         LLL
MMM         MMM         TTT         HHH          HHH  RRR         RRR       TTT         LLLLLLLLLLLLLLLL
MMM         MMM         TTT         HHH          HHH  RRR         RRR       TTT         LLLLLLLLLLLLLLLL
MMM         MMM         TTT         HHH          HHH  RRR         RRR       TTT         LLLLLLLLLLLLLLLL
```

FILEID**OTSPOWGJ

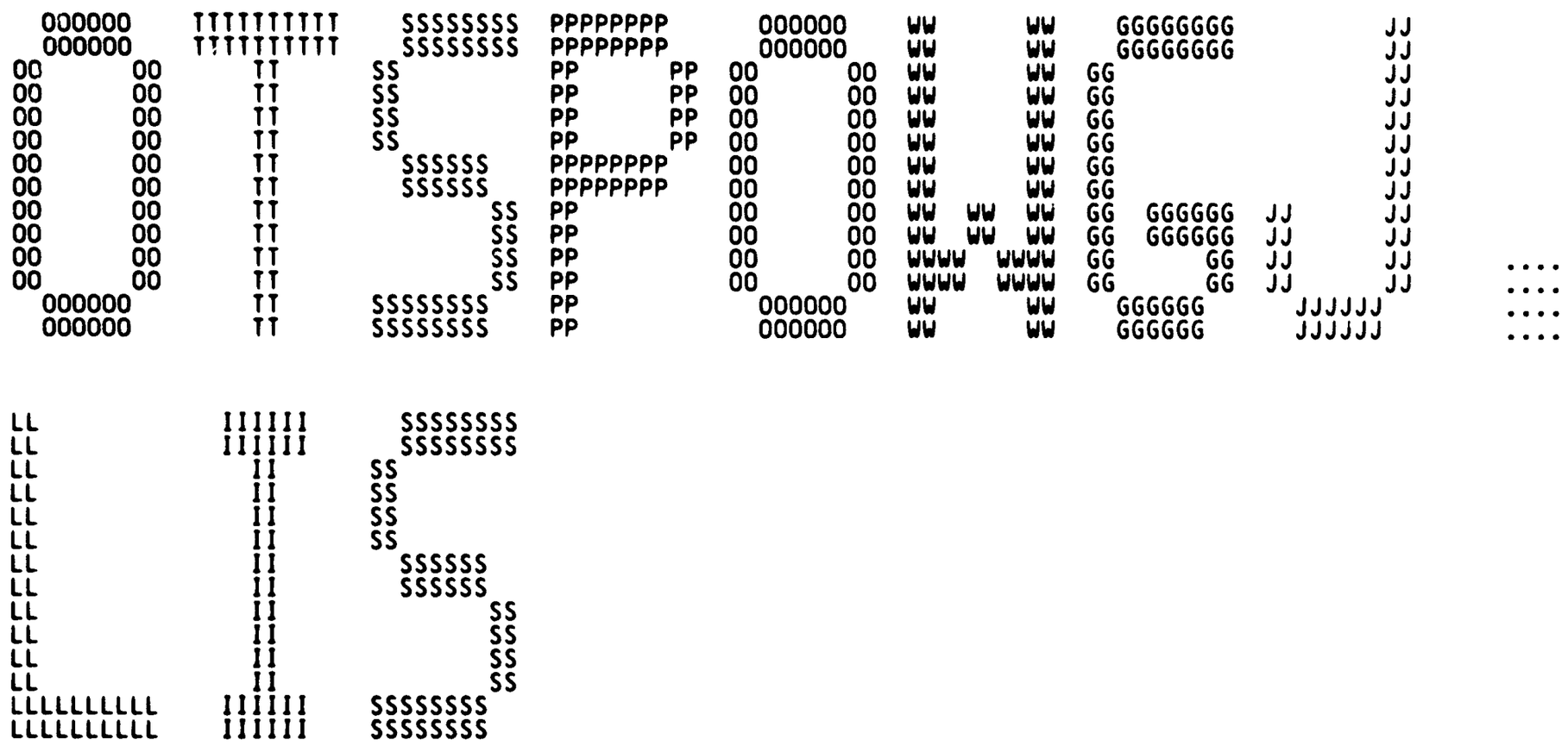

Table of contents

```
0000     1          .TITLE  OTS$POWGJ - G REAL*8 ** INTEGER*4 power routine
0000     2          .IDENT  /1-005/          ; File: OTSPOWGJ.MAR  Edit: SBL1005
0000     3
0000     4  ;
0000     5  ;*****************************************************************************
0000     6  ;*                                                                           *
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0000    24  ;*                                                                           *
0000    25  ;*                                                                           *
0000    26  ;*****************************************************************************
0000    27  ;
0000    28  ;
0000    29  ; FACILITY: Language support library - user callable
0000    30  ;++
0000    31  ; ABSTRACT:
0000    32  ;
0000    33  ;       G REAL*8 base to INTEGER*4 power.
0000    34  ;       Floating overflow and underflow can occur.
0000    35  ;       Undefined exponentation can occur if base is 0 and power
0000    36  ;       is 0 or negative.
0000    37  ;
0000    38  ;
0000    39  ;--
0000    40  ;
0000    41  ; VERSION: 1
0000    42  ;
0000    43  ; HISTORY:
0000    44  ; AUTHOR:
0000    45  ;       Steven B. Lionel, 6-Feb-79: Version 1
0000    46  ;
0000    47  ;
0000    48  ;
0000    49  ;
```

```
                0000     51          .SBTTL  HISTORY         ; Detailed Current Edit History
                0000     52
                0000     53
                0000     54 ; Edit History for Version 1 of OTS$POWGJ
                0000     55 ; 1-002 SBL1002 - Declare externals.  SBL 17-May-1979
                0000     56 ; 1-003 - Correct some comments.  JBS 30-JUL-1979
                0000     57 ; 1-001 - Adapted from OTS$POWDJ version 1-001.  SBL 06-Feb-79
                0000     58 ; 1-004 - Add handlers to catch SS$_FLTOVF and SS$_FLTDIV, and signal
                0000     59 ;         MTH$_FLOOVEMAT or MTH$_FLOUNDMAT instead, depending on the context.
                0000     60 ;         Also disable IV and change BLBS/ASHL at EXPGTR to BBSC/ROTL for
                0000     61 ;         uniformity with OTS$POWRJ.  JAW 26-Feb-1980.
                0000     62 ; 1-005 - Use general mode addressing.  SBL 30-Nov-1981
                0000     63 ;
```

```
                     0000     65          .SBTTL  DECLARATIONS
                     0000     66
                     0000     67 ;
                     0000     68 ; INCLUDE FILES:
                     0000     69 ;
                     0000     70
                     0000     71 ;
                     0000     72 ; EXTERNAL SYMBOLS:
                     0000     73 ;
                     0000     74
                     0000     75          .DSABL  GBL
                     0000     76          .EXTRN  MTH$K_UNDEXP, MTH$K_FLOOVEMAT, MTH$K_FLOUNDMAT
                     0000     77          .EXTRN  MTH$$SIGNAL                     ; Math error routine
                     0000     78          .EXTRN  SS$_FLTOVF, SS$_FLTOVF_F, SS$_FLTDIV, SS$_FLTDIV_F, SS$_CONTINUE
                     0000     79 ;
                     0000     80 ; MACROS:
                     0000     81 ;
                     0000     82          $CHFDEF                             ; Define condition handler symbols.
                     0000     83          $SFDEF                              ; Define stack frame symbols.
                     0000     84          $PSLDEF                             ; Define program status longword
                     0000     85                                              ; symbols.
                     0000     86
                     0000     87 ;
                     0000     88 ; EQUATED SYMBOLS:
                     0000     89 ;
                     0000     90          base = 4                            ; base input formal - by-value
                     0000     91          exp = 12                            ; exponent intpu formal - by-value
                     0000     92                                              ; Note: G_floating by-value violates
                     0000     93                                              ; calling standard, but ok since this
                     0000     94                                              ; routine is a code support routine (OTS$)
                     0000     95
                     0000     96 ;
                     0000     97 ; OWN STORAGE:
                     0000     98 ;
                     0000     99
                     0000    100 ;
                     0000    101 ; PSECT DECLARATIONS:
                     0000    102 ;
                     0000    103
                     0000    104          .PSECT  _OTS$CODE PIC,SHR,LONG,EXE,NOWRT
                     0000    105                                              ; program section for OTS$ code
                     0000    106
```

```
0000    108          .SBTTL  OTS$POWGJ - G REAL*8 ** INTEGER*4
0000    109
0000    110 ;++
0000    111 ; FUNCTIONAL DESCRIPTION:
0000    112 ;
0000    113 ;       G_floating result = G_floating base ** signed longword exponent
0000    114 ;       The G_floating result is given by:
0000    115 ;
0000    116 ;       base    exponent        result
0000    117 ;
0000    118 ;       any     > 0             product (base * 2**i) where i is each
0000    119 ;                               non-zero bit position in exponent
0000    120 ;
0000    121 ;       > 0     = 0             1.0
0000    122 ;       = 0     = 0             Undefined exponentation
0000    123 ;       < 0     = 0             1.0
0000    124 ;
0000    125 ;       > 0     < 0             1.0 / product (base * 2**i)
0000    126 ;                               where i is each non-zero bit position
0000    127 ;                               in !exponent!
0000    128 ;       = 0     < 0             Undefined exponentation
0000    129 ;       < 0     < 0             1.0 / product (base * 2**i)
0000    130 ;                               where i is each non-zero bit position
0000    131 ;                               in !exponent!
0000    132 ;
0000    133 ;       Floating overflow can occur on either of the two MULG's.  If this
0000    134 ;       happens when the exponent is less than zero, the exception is caught by
0000    135 ;       a local condition handler named EXC_HNDLR_UNDER, which sets the result
0000    136 ;       to 0.0 and either signals MTH$_FLOUNDMAT (if FU is enabled in the
0000    137 ;       caller's PSW) or continues at POWGJX.  If it happens when the exponent
0000    138 ;       is greater than zero, the exception is caught by a local condition
0000    139 ;       handler named EXC_HNDLR_OVER, which sets the result to the reserved
0000    140 ;       operand (-0.0) and signals MTH$_FLOOVEMAT.
0000    141 ;
0000    142 ;       Floating overflow and floating divide by zero can occur on the DIVG.
0000    143 ;       These exceptions are caught by EXC_HNDLR_OVER, which sets the result to
0000    144 ;       the reserved operand (-0.0) and signals MTH$_FLOOVEMAT.
0000    145 ;
0000    146 ;       Undefined exponentiation occurs if base is 0 and
0000    147 ;       exponent is 0 or negative.
0000    148 ;
0000    149 ; CALLING SEQUENCE:
0000    150 ;
0000    151 ;       Power.wg.v = OTS$POWGJ (base.rg.v, exponent.rl.v)
0000    152 ;
0000    153 ; INPUT PARAMETERS:
0000    154 ;       base            - G REAL*8 base
0000    155 ;       exponent        - INTEGER*4 exponent
0000    156 ;
0000    157 ; IMPLICIT INPUTS:
0000    158 ;       The setting of FU in the caller's PSW.
0000    159 ;
0000    160 ; OUTPUT PARAMETERS:
0000    161 ;       NONE
0000    162 ;
0000    163 ; IMPLICIT OUTPUTS:
0000    164 ;       NONE
```

```
                                0000   165 ;
                                0000   166 ; FUNCTION VALUE:
                                0000   167 ;
                                0000   168 ;       G_floating base **  signed longword exponent
                                0000   169 ;
                                0000   170 ; SIDE EFFECTS:
                                0000   171 ;
                                0000   172 ;       Signals MTH$_FLOOVEMAT if floating overflow occurs on either of the two
                                0000   173 ;           MULG's when exponent > 0, or if floating overflow or divide by zero
                                0000   174 ;           occurs on the DIVG.
                                0000   175 ;       Signals MTH$_FLOUNDMAT if floating overflow occurs on either of the two
                                0000   176 ;           MULG's when exponent < 0 and caller has FU enabled.
                                0000   177 ;       SIGNALs MTH$_UNDEXP (82 = ' UNDEFINED EXPONENTATION') if
                                0000   178 ;       base is 0 and exponent is 0 or negative.
                                0000   179 ;
                                0000   180 ;--
                                0000   181
                                0000   182
                                0000   183
                        001C    0000   184         .ENTRY  OTS$POWGJ, ^M<R2, R3, R4>
                                0002   185                                         ; Disable integer overflow.  (Occurs on
                                0002   186                                         ; maximum negative exponent.)
6D      6C'AF     9E            0002   187         MOVAB   B^EXC_HNDLR_OVER, (FP)  ; Translate exceptions to
                                0006   188                                         ; MTH$_FLOOVEMAT.
   50     08 50FD               0006   189         MOVG    #1, R0                  ; R0/R1 = initial result
52    04 AC 50FD                000A   190         MOVG    base(AP), R2            ; R2/R3 = base
54    0C AC    D0               000F   191         MOVL    exp(AP), R4             ; R4 = exponent
          0E    14               0013   192         BGTR    EXPGTR                  ; branch if exponent > 0
6D      5D'AF     9E            0015   193         MOVAB   B^EXC_HNDLR_UNDER, (FP) ; Translate exceptions to
                                0019   194                                         ; MTH$_FLOUNDMAT.
                                0019   195
          52 53FD               0019   196         TSTG    R2                      ; test base
          2F    13              001C   197         BEQL    UNDEFINED               ; undefined 0**0 or 0**(-n)
     54   54    CE              001E   198         MNEGL   R4, R4                  ; R4 = |exponent|
          29    13              0021   199         BEQL    POWGJX                  ; if exponent is 0, return R0 = 1.0
                                0023   200
                                0023   201 ;+
                                0023   202 ; Exponent is > 0 or (exponent is =< 0 and base is not = 0 -- use |exponent|)
                                0023   203 ;-
                                0023   204
    0C 54    00    E4           0023   205 EXPGTR: BBSC    #0, R4, PARTIAL         ; branch if |exponent| is odd
54  54    FF 8F    9C           0027   206 SQUAR:  ROTL    #-1, R4, R4             ; R4 = |exponent|/2
   52    52 44FD                002C   207 SQUAR1: MULG2   R2, R2                  ; R2/R3 = current power of base
                                0030   208                                         ; Floating overflow will trap or fault
                                0030   209                                         ; and signal SS$_FLTOVF or SS$_FLTOVF_F.
        F4 54    E9             0030   210         BLBC    R4, SQUAR               ; branch if next bit in |exponent| is 0
                                0033   211
                                0033   212 ;+
                                0033   213 ; Here when bit i of |exponent| is a 1.
                                0033   214 ; Partial result = partial result *  (base * 2**i)
                                0033   215 ;-
                                0033   216
                                0033   217 PARTIAL:
   50    52 44FD                0033   218         MULG2   R2, R0                  ; R0/R1 = new partial result
54  54    FF 8F    78           0037   219         ASHL    #-1, R4, R4             ; R4 = |exponent|/2
          EE    12              003C   220         BNEQ    SQUAR1                  ; loopback if more exponent bits are 1
                                003E   221
```

```
                     0C AC    D5  003E   222          TSTL    exp(AP)                     ; test sign of exponent
                        09    14  0041   223          BGTR    POWGJX                      ; if exponent > 0, return R0
                  6D    6C'AF 9E  0043   224          MOVAB   B^EXC_HNDLR_OVER, (FP)      ; Translate exceptions to
                                  0047   225                                              ; MTH$_FLOOVEMAT.
                50    08  50 47FD 0047   226          DIVG3   R0, #1, R0                  ; R0/RT = 1.0/result
                                  04 004C   227 POWGJX: RET                               ; return, result in R0
                                     004D   228
                                     004D   229 ;+
                                     004D   230 ; Undefined exponentation error - 0**0 or 0**(-n)
                                     004D   231 ;-
                                     004D   232
                                     004D   233 UNDEFINED:
                   50   01    0F   79 004D   234          ASHQ    #15, #1, R0             ; R0/R1 = reserved floating operand
                     7E   00'8F   9A 0051   235          MOVZBL  #MTH$K_UNDEXP, -(SP)    ; Indicate undefined exponentiation.
             00000000'GF    01   FB 0055   236          CALLS   #1, G^MTH$$SIGNAL       ; convert to 32-bit condition code
                                     005C   237                                          ; and SIGNAL MTH$_UNDEXP
                                     005C   238                                          ; Note: 2nd arg not needed since no JSB OTS$
                                     005C   239                                          ; is possible.
                                  04 005C   240          RET                             ; return
                                     005D   241
                                     005D   242 ;+
                                     005D   243 ; The following handler is established to process exceptions which imply
                                     005D   244 ; underflow of the final result (floating overflow in either of the two MULG's
                                     005D   245 ; when exp < 0).  On the occurrence of such an exception, the handler signals
                                     005D   246 ; MTH$_FLOUNDMAT.
                                     005D   247 ;-
                                     005D   248
                                     005D   249 EXC_HNDLR_UNDER:
                        001C         005D   250          .WORD   ^M<R2, R3, R4>          ; Entry mask
                     2B   10         005F   251          BSBB    SETUP                   ; Set up R0:R3 and identify condition.
                                     0061   252                                          ; Return only if FLTOVF or FLTDIV.
                1E 04 A2    06   E1 0061   253          BBC     #PSL$V_FU, SF$W_SAVE_PSW(R2), CON_U
                                     0066   254                                          ; Branch if caller has not enabled FU.
                   54   00'8F   9A 0066   255          MOVZBL  #MTH$K_FLOUNDMAT, R4    ; Report MTH$_FLOUNDMAT, not SS$_FLTOVF.
                        0C   11 006A   256          BRB     DO_SIG
                                     006C   257
                                     006C   258 ;+
                                     006C   259 ; The following handler is established to process exceptions which imply
                                     006C   260 ; overflow of the final result (floating overflow in either of the two MULG's
                                     006C   261 ; when exp > 0, floating overflow in the DIVG, or floating divide by zero in the
                                     006C   262 ; DIVG).  Or the occurrence of such an exception, the handler signals
                                     006C   263 ; MTH$_FLOOVEMAT.
                                     006C   264 ;-
                                     006C   265
                                     006C   266 EXC_HNDLR_OVER:
                        001C         006C   267          .WORD   ^M<R2, R3, R4>          ; Entry mask
                     1C   10         006E   268          BSBB    SETUP                   ; Set up R0:R3 and identify condition.
                                     0070   269                                          ; Return only if FLTOVF or FLTDIV.
                   50   01    0F   78 0070   270          ASHL    #15, #1, R0             ; Make the default result -0.0.
                     54   00'8F   9A 0074   271          MOVZBL  #MTH$K_FLOOVEMAT, R4    ; Report MTH$_FLOOVEMAT, not SS$_FLTxxx.
                                     0078   272
                        10   A2   DD 0078   273 DO_SIG: PUSHL   SF$L_SAVE_PC(R2)        ; Report caller's PC, not exception PC.
                           54    DD 007B   274          PUSHL   R4                      ; Report MTH$_xxx, not SS$_xxx.
             00000000'GF    02   FB 007D   275          CALLS   #2, G^MTH$$SIGNAL       ; Signal the condition.
                0C A3    50   7D 0084   276 CON_U:  MOVQ    R0, CHF$L_MCH_SAVR0(R3) ; If continued, restore R0 and R1.
                   50    00'  D0 0088   277          MOVL    S^#SS$_CONTINUE, R0     ; Continue from the original exception.
                                  04 008B   278 DO_RET: RET                             ; Exit from handler.
```

```
                                                     B 1
                     008C    279
                     008C    280 ;+
                     008C    281 ; Common setup routine for handlers.  Returns normally if exception was FLTOVF,
                     008C    282 ; FLTOVF_F, FLTDIV, or FLTDIV_F.  If the exception was anything else, it
                     008C    283 ; executes a RET, causing an ex : from the handler with R0 = 0, which is
                     008C    284 ; equivalent to SS$_RESIGNAL.  In the case of a normal return (FLTOVF, FLTOVF_F,
                     008C    285 ; FLTDIV, or FLTDIV_F) it sets up R0:R3 as follows:
                     008C    286 ;       R0/R1:  0
                     008C    287 ;       R2:     address of establisher's frame
                     008C    288 ;       R3:     address of mechanism array
                     008C    289 ;-
                     008C    290
          50   7C    008C    291 SETUP:  CLRQ    R0                              ; Set default result to 0.0.
     52   04 AC   7D  008E    292         MOVQ    CHF$L_SIGARGLST(AP), R2         ; r2 = address of signal array
                     0092    293                                                 ; r3 = address of mechanism array
0000'8F   04 A2   B1  0092    294         CMPW    CHF$L_SIG_NAME(R2), #SS$_FLTOVF
                     0098    295                                                 ; Was it a floating overflow trap?
          18   13    0098    296         BEQL    DO_RSB                          ; Branch if yes.
0000'8F   04 A2   B1  009A    297         CMPW    CHF$L_SIG_NAME(R2), #SS$_FLTOVF_F
                     00A0    298                                                 ; Or a floating overflow fault?
          10   13    00A0    299         BEQL    DO_RSB                          ; Branch if yes.
0000'8F   04 A2   B1  00A2    300         CMPW    CHF$L_SIG_NAME(R2), #SS$_FLTDIV
                     00A8    301                                                 ; Or a floating divide by zero trap?
          08   13    00A8    302         BEQL    DO_RSB                          ; Branch if yes.
0000'8F   04 A2   B1  00AA    303         CMPW    CHF$L_SIG_NAME(R2), #SS$_FLTDIV_F
                     00B0    304                                                 ; Or a floating divide by zero fault?
          D9   12    00B0    305         BNEQ    DO_RET                          ; None of the above: return from handler
                     00B2    306                                                 ; with R0 = 0.
  08 A2   97 AF   9E  00B2    307 DO_RSB: MOVAB   B^POWGJX, CHF$L_SIG_NAME+4(R2)
                     00B7    308                                                 ; Change return PC to POWGJX.
     52   04 A3   D0  00B7    309         MOVL    CHF$L_MCH_FRAME(R3), R2         ; R2 = address of establisher's frame
          05   00BB    310         RSB                                         ; Return.
                     00BC    311
                     00BC    312         .END
```

```
BASE            =  00000004
CHF$L_MCH_FRAME =  00000004
CHF$L_MCH_SAVR0 =  0000000C
CHF$L_SIGARGLST =  00000004
CHF$L_SIG_NAME  =  00000004
CON_U              00000084  R      02
DO_RET             0000008B  R      02
DO_RSB             00000082  R      02
DO_SIG             00000078  R      02
EXC_HNDLR_OVER     0000006C  R      02
EXC_HNDLR_UNDER    0000005D  R      02
EXP             =  0000000C
EXPGTR             00000023  R      02
MTH$$SIGNAL        ********    X    00
MTH$K_FLOOVEMAT    ********    X    00
MTH$K_FLOUNDMAT    ********    X    00
MTH$K_UNDEXP       ********    X    00
OTS$POWGJ          00000000  RG     02
PARTIAL            00000033  R      02
POWGJX             0000004C  R      02
PSL$V_FU        =  00000006
SETUP              0000008C  R      02
SF$L_SAVE_PC    =  00000010
SF$W_SAVE_PSW   =  00000004
SQUAR              00000027  R      02
SQUAR1             0000002C  R      02
SS$_CONTINUE       ********    X    00
SS$_FLTDIV         ********    X    00
SS$_FLTDIV_F       ********    X    00
SS$_FLTOVF         ********    X    00
SS$_FLTOVF_F       ********    X    00
UNDEFINED          0000004D  R      02
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_OTS$CODE	000000BC (188.)	02 (2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.09	00:00:00.97
Command processing	128	00:00:00.73	00:00:03.98
Pass 1	137	00:00:02.04	00:00:08.13
Symbol table sort	0	00:00:00.09	00:00:00.16
Pass 2	68	00:00:00.92	00:00:03.90
Symbol table output	4	00:00:00.03	00:00:00.04
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 376 00:00:03.94 00:00:17.21

The working set limit was 1050 pages.
9091 bytes (18 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 106 non-local and 0 local symbols.
372 source lines were read in Pass 1, producing 13 object records in Pass 2.
11 pages of virtual memory were used to define 10 macros.

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

Macro library name	Macros defined
_255DUA28:[SYSLIB]STARLET.MLB;2	6

148 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS$:OTSPOWGJ/OBJ=OBJ$:OTSPOWGJ MSRC$:MTHJACKET/UPDATE=(ENH$:MTHJACKET)+MSRC

OTSMULCD
LIS

OTSPOWCGC
LIS

OTSDIVC
LIS

OTSPOWDD
LIS

OTSPOWCC
LIS

OTSPOWGG
LIS

OTSPOWGJ
LIS

OTSPOWCDJ
LIS

MTHTAN
LIS

MTHVECTOR
LIS

OTSDIVCG
LIS

OTSPOWCJ
LIS

OTSPOWDLJ
LIS

MTHTANH
LIS

OTSMULCG
LIS

OTSPOWCGJ
LIS

OTSPOWDJ
LIS

OTSDIVCD
LIS

OTSPOWCDC
LIS

OTSPOWHH
LIS

OTSPOWII
LIS

OTSPOWRJ
LIS

UUXPOWGG
LIS

OTSPOWGLU
LIS

OTSPOWHLU
LIS

OTSPOWHJ
LIS

UUXPOWCJ
LIS

UUXPOWRR
LIS

OTSPOWLUL
LIS

OTSPOWRR
LIS

OTSPOWJJ
LIS

UUXEXP
LIS

UUXGSINCO
LIS

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