PASRTL

```
PPPPPPPP      AAAAAA      SSSSSSSS    000000    DDDDDDDD    DDDDDDDD
PPPPPPPP      AAAAAA      SSSSSSSS    000000    DDDDDDDD    DDDDDDDD
PP      PP  AA      AA  SS          00    00  DD      DD  DD      DD
PP      PP  AA      AA  SS          00    00  DD      DD  DD      DD
PP      PP  AA      AA  SS          00    00  DD      DD  DD      DD
PPPPPPPP    AA      AA    SSSSSS    00    00  DD      DD  DD      DD
PPPPPPPP    AA      AA    SSSSSS    00    00  DD      DD  DD      DD
PP          AAAAAAAAAA        SS    00    00  DD      DD  DD      DD
PP          AAAAAAAAAA        SS    00    00  DD      DD  DD      DD
PP          AA      AA        SS    00    00  DD      DD  DD      DD
PP          AA      AA        SS    00    00  DD      DD  DD      DD    ....
PP          AA      AA  SSSSSSSS      000000    DDDDDDDD    DDDDDDDD    ....
PP          AA      AA  SSSSSSSS      000000    DDDDDDDD    DDDDDDDD    ....


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
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
0000     1            .TITLE  PAS$ODD - Return True if Argument Odd
0000     2            .IDENT  /1-001/                  ; File: PASODD.MAR Edit: SBL1001
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 ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                   *
0000    24    ;*                                                                             *
0000    25    ;*                                                                             *
0000    26    ;*******************************************************************************
0000    27    ;
0000    28
0000    29    ;++
0000    30    ; FACILITY: Pascal Language Support
0000    31    ;
0000    32    ; ABSTRACT:
0000    33    ;
0000    34    ;       This module contains PAS$ODD, which returns 1 if the argument
0000    35    ;       is odd, 0 otherwise.
0000    36    ;
0000    37    ; ENVIRONMENT: Runs at any access mode, AST Reentrant
0000    38    ;
0000    39    ; AUTHOR: Steven B. Lionel, CREATION DATE: 6-Nov-1980
0000    40    ;
0000    41    ; MODIFIED BY:
0000    42    ;
0000    43    ; 1-001 - Original. SBL 6-Nov-1980
0000    44    ;--
```

```
      0000    46              .SBTTL   DECLARATIONS
      0000    47 ;
      0000    48 ; LIBRARY MACRO CALLS:
      0000    49 ;
      0000    50 ;         NONE
      0000    51 ;
      0000    52 ; EXTERNAL DECLARATIONS:
      0000    53 ;
      0000    54         .DSABL   GBL                ; Force all external symbols to be declared
      0000    55 ;         NONE
      0000    56 ;
      0000    57 ; MACROS:
      0000    58 ;
      0000    59 ;         NONE
      0000    60 ;
      0000    61 ; EQUATED SYMBOLS:
      0000    62 ;
      0000    63 ;         NONE
      0000    64 ;
      0000    65 ; OWN STORAGE:
      0000    66 ;
      0000    67 ;         NONE
      0000    68 ;
      0000    69 ; PSECT DECLARATIONS:
      0000    70 ;
  00000000    71         .PSECT _PAS$CODE PIC, USR, CON, REL, LCL, SHR, -
      0000    72                 EXE, RD, NOWRT, LONG
      0000    73
```

G 10

PASSODD   - Return True if Argument Odd   16-SEP-1984 01:26:14   VAX/VMS Macro V04-00   Page 3   P
1-001   PASSODD - Return True if Value Odd   6-SEP-1984 11:31:49   [PASRTL.SRC]PASODD.MAR;1   1   (3)
```
                          0000          75            .SBTTL  PASSODD - Return True if Value Odd
                          0000          76    ;++
                          0000          77    ; FUNCTIONAL DESCRIPTION:
                          0000          78    ;
                          0000          79    ;       This routine returns a BOOLEAN TRUE (1) if its argument is
                          0000          80    ;       odd, a BOOLEAN FALSE (0) if it is even.
                          0000          81    ;
                          0000          82    ; CALLING SEQUENCE:
                          0000          83    ;
                          0000          84    ;       Result.wv.v = PASSODD (Long.rl.r)
                          0000          85    ;
                          0000          86    ; FORMAL PARAMETERS:
                          0000          87    ;
                          0000          88    ;       Long    - Signed longword argument
                          0000          89    ;
                          0000          90    ; IMPLICIT INPUTS:
                          0000          91    ;
                          0000          92    ;       NONE
                          0000          93    ;
                          0000          94    ; IMPLICIT OUTPUTS:
                          0000          95    ;
                          0000          96    ;       NONE
                          0000          97    ;
                          0000          98    ; ROUTINE VALUE:
                          0000          99    ;
                          0000         100    ;       1 if argument odd
                          0000         101    ;       0 if argument even
                          0000         102    ;
                          0000         103    ; SIDE EFFECTS:
                          0000         104    ;
                          0000         105    ;       NONE
                          0000         106    ;
                          0000         107    ;--
                          0000         108
                   0000   0000         109            .ENTRY  PASSODD, ^M<>            ; Entry point
                          0002         110
                          0002         111    ;+
                          0002         112    ; Note:  this routine is not the same as PASSCONVERT_BOOL_L because that
                          0002         113    ; routine's argument is a single bit. and must be accessed only as a byte.
                          0002         114    ; PASSODD takes a longword, so we must do a longword access.
                          0002         115    ;-
                          0002         116
 50   04 BC   FFFFFFFE 8F    CB   0002  117            BICL3   #^XFFFFFFFE, @4(AP), R0 ; Determine result
              04   000B         118            RET
                   000C         119
                   000C         120            .END                            ; End of module PASSODD
```

PASSODD   00000000 RG   01

```
                                          +------------------+
                                          ! Psect synopsis !
                                          +------------------+


PSECT name                      Allocation          PSECT No.  Attributes
----------                      ----------          ---------  ----------
.  ABS  .                       00000000  (    0.)  00 (  0.)  NOPIC   USR   CON   ABS   LCL  NOSHR  NOEXE  NORD   NOWRT NOVEC BYTE
_PAS$CODE                       0000000C  (   12.)  01 (  1.)    PIC   USR   CON   REL   LCL   SHR    EXE   RD    NOWRT NOVEC LONG

                                       +---------------------------+
                                       ! Performance indicators .
                                       +---------------------------+


Phase                     Page faults    CPU Time       Elapsed Time
-----                     -----------    --------       ------------
Initialization                  10     00:00:00.08      00:00:01.29
Command processing              74     00:00:00.65      00:00:04.83
Pass 1                          63     00:00:00.36      00:00:03.67
Symbol table sort                0     00:00:00.00      00:00:00.00
Pass 2                          37     00:00:00.24      00:00:01.45
Symbol table output              2     00:00:00.02      00:00:00.01
Psect synopsis output            1     00:00:00.02      00:00:00.61
Cross-reference output           0     00:00:00.00      00:00:00.00
Assembler run totals           189     00:00:01.38      00:00:11.87
```

The working set limit was 750 pages.
1086 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 1 non-local and 0 local symbols.
120 source lines were read in Pass 1, producing 10 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

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


Macro library name                      Macros defined
------------------                      --------------
_$255$DUA28:[SYSLIB]STARLET.MLB;2              0
```

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

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

PASPAGE2
LIS

PASODD
LIS

PASHEX
LIS

PASLINELI   PASMSGPTR
LIS   LIS

PASLIB   PASLOOKAH
LIS   LIS

                              PASOCT   PASOPEN2
                              LIS   LIS

                                                        PASPUT
                                                        LIS

PASIQHAND
LIS

                      PASLOCATE
                      LIS

                              PASMSGTXT
                              LIS