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[illegible]

(2) 49
(3) 57
(4) 92

HISTORY
DECLARATIONS
OTSSCVTPH_R9

; Detailed Current Edit History

```
0000 1      .TITLE  OTSSCVTPH_R9      Convert Packed to H floating
0000 2      .IDENT  /1-001/           ; File: OTSCVTPH.MAR Edit: PLL1001
0000 3
0000 4      :
0000 5      :*****
0000 6      :
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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     : FACILITY: LANGUAGE INDEPENDENT SUPPORT
0000 29     :++
0000 30     : ABSTRACT:
0000 31     :     This module contains the routine that converts packed numbers
0000 32     :     to h floating.
0000 33     :
0000 34     :
0000 35     :--
0000 36     :
0000 37     : VERSION: 1
0000 38     :
0000 39     : HISTORY:
0000 40     :
0000 41     : AUTHOR:
0000 42     :     Pamela Levesque, 18-Jan-1982
0000 43     :
0000 44     : MODIFIED BY:
0000 45     :
0000 46     :
0000 47     :
```


OTSSCVTPH_R9
1-001

Convert Packed to H floating D 3 16-SEP-1984 00:26:18 VAX/VMS Macro V04-00
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:13:22 [LIBRTL.SRC]OTSCVTPH.MAR;1 Page 2
0000 49 .SBTTL HISTORY ; Detailed Current Edit History
0000 50
0000 51
0000 52 ; Edit History for Version 1 of OTSCVTPH
0000 53 ;
0000 54 ; 1-001 - Original. PLL 18-Jan-1982
0000 55

```

0000 57      .SBTTL  DECLARATIONS
0000 58
0000 59 :
0000 60 : INCLUDE FILES:
0000 61 :
0000 62      $DSCDEF
0000 63
0000 64 :
0000 65 : EXTERNAL SYMBOLS:
0000 66      .DSABL  GBL      ; Prevent undeclared symbols from being
0000 67                          ; automatically global
0000 68
0000 69      .EXTRN  OTSSCVT_T_H ; D, E, F, G Conversion routine
0000 70 :
0000 71 :
0000 72 :
0000 73 : MACROS:
0000 74 :      NONE
0000 75 :
0000 76 :
0000 77 :
0000 78 : PSECT DECLARATIONS:
0000 79      .PSECT  _OTSSCODE      PIC, SHR, LONG, EXE, NOWRT,-
0000 80                          USR, CON, REL, LCL, RD
0000 81
0000 82 :
0000 83 : EQUATED SYMBOLS:
0000 84 :      NONE
0000 85 :
0000 86 :
0000 87 :
0000 88 : OWN STORAGE:
0000 89 :      NONE
0000 90 :

```



```
0000 92      .SBTTL OTSS$CVTPH_R9
0000 93
0000 94      :++
0000 95      : FUNCTIONAL DESCRIPTION:
0000 96      :
0000 97      :     Converts packed numbers to h floating.
0000 98      :
0000 99      : CALLING SEQUENCE:
0000 100     :
0000 101     :     JSB OTSS$CVTPH_R9 (scale.rl.v, srclen.rl.v, src.rp.r, dst.wh.r)
0000 102     :
0000 103     :     Arguments are passed in R6, R7, R8 and R9.
0000 104     :
0000 105     : INPUT PARAMETERS:
0000 106     :
0000 107     :     SCALE.rl.v           The power of ten by which the internal
0000 108     :                               representation of the source must be
0000 109     :                               multiplied to scale the same as the
0000 110     :                               internal representation of the dest.
0000 111     :     SRCLEN.rl.v         The number of digits in the source
0000 112     :     SRC.rp.r             The number to be converted
0000 113     :
0000 114     : IMPLICIT INPUTS:
0000 115     :
0000 116     :     All of the trap bits in the PSL are assumed off.
0000 117     :
0000 118     : OUTPUT PARAMETERS:
0000 119     :
0000 120     :     DST.wh.r               The place to store the converted number
0000 121     :
0000 122     : IMPLICIT OUTPUTS:
0000 123     :
0000 124     :     NONE
0000 125     :
0000 126     : FUNCTION VALUE:
0000 127     :
0000 128     :     1 = SUCCESS, 0 = FAILURE
0000 129     :
0000 130     : SIDE EFFECTS:
0000 131     :
0000 132     :     Destroys registers R0 through R9.
0000 133     :
0000 134     :--
0000 135
0000 136
0000 137 OTSS$CVTPH R9::
0000 138      SOBL2  #40,SP          ; Space for temp string and result
0000 139      CVTPS  R7,(R8),#31,8(SP) ; Make a separate sign string
0000 140      :
0000 141      : Make a descriptor for the leading separate string.
0000 142      :
0000 143      :     PUSHL  R3          ; Address = temp string
0000 144      :     MOVB  #DSC$K_CLASS_S,-(SP) ; Class = static
0000 145      :     MOVB  #DSC$K_DTYPE_T,-(SP) ; Data type = ASCII text
0000 146      :     MOVW  #32,-(SP)      ; Length = 32 bytes
0000 147      :
0000 148      : Now call the conversion routine.
```

08 AE 1F 5E 28 C2 0000 138
68 57 08 0003 139
0009 140
0009 141
0009 142
7E 53 DD 0009 143
01 90 000B 144
7E 0E 90 000E 145
7E 20 B0 0011 146
0014 147
0014 148

```

      7E 56 CE 0014 149 ;
      00 DD 0014 150 ;
      10 AE 9F 0017 151 ;
      0C AE 9F 0019 152 ;
00000000'GF 0C 04 FB 001C 153 ;
      0C 50 E9 001F 154 ;
      69 08 AE 70FD 0026 155 ;
      50 01 DO 0029 156 ;
      5E 30 CO 002E 157 ;
      05 0031 158 1$:
      0034 159 ;
      0035 160 ;
      0035 161 ; Come here on overflow to store the reserved operand.
      0035 162 ;
      69 01 0F 79 0035 163 2$:
      50 D4 0039 164 ;
      F4 11 003B 165 ;
      003D 166 ;
      003D 167 ;
      MNEGL R6,-(SP) ; Scale factor
      PUSHL #0 ; Digits in fraction
      PUSHAB 16(SP) ; Address of result area
      PUSHAB 12(SP) ; Address of descriptor
      CALLS #4,G^OTSSCVT_T_H ; Call the routine
      BLBC R0,2$ ; Failure, must be overflow
      MOVH 8(SP),(R9) ; Store result
      MOVL #1,R0 ; Indicate success
      ADDL2 #48,SP ; Delete stack temps
      RSB ; Return
      ASHQ #15,#1,(R9) ; Store reserved operand
      CLRL R0 ; Indicate failure
      BRB 1$ ; Delete stack temps and return
      .END
```


OTSSCVTPH_R9
Symbol table

Convert Packed to H floating

H 3

16-SEP-1984 00:26:18
6-SEP-1984 11:13:22

VAX/VMS Macro V04-00
[LIBRTL.SRC]OTSCVTPH.MAR;1

Page 6
(4)

DSC\$K_CLASS_S
DSC\$K_DTYPE_T
OTSSCVTPH_R9
OTSSCVT_T_H

= 00000001
= 0000000E
00000000 RG 02
***** X 00

+-----+
! 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	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_OTSSCODE	0000003D (61.)	02 (2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.05	00:00:00.92
Command processing	116	00:00:00.32	00:00:02.41
Pass 1	133	00:00:01.09	00:00:05.16
Symbol table sort	0	00:00:00.10	00:00:00.33
Pass 2	43	00:00:00.30	00:00:01.89
Symbol table output	2	00:00:00.01	00:00:00.01
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	328	00:00:01.90	00:00:10.75

The working set limit was 900 pages.

8057 bytes (16 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 133 non-local and 2 local symbols.

167 source lines were read in Pass 1, producing 10 object records in Pass 2.

8 pages of virtual memory were used to define 7 macros.

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

Macro library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

4

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

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

0212 AH-BT13A-SE
VAX/VMS V4.0

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