


```

LL      IIIIII  BBBB8888  CCCCCCCC  VV      VV  TTTTTTTTTT  P8888888  TTTTTTTTTT  ZZZZZZZZZZ
LL      IIIIII  BBBB8888  CCCCCCCC  VV      VV  TTTTTTTTTT  P8888888  TTTTTTTTTT  ZZZZZZZZZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  P8888888  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  P8888888  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LL      II      BB      BB  CC      CC  TT      TT  PP      PP  TT      TT  ZZ
LLLLLLLL  IIIIII  BBBB8888  CCCCCCCC  VV      VV  TT      TT  PP      PP  TT      TT  ZZ
LLLLLLLL  IIIIII  BBBB8888  CCCCCCCC  VV      VV  TT      TT  PP      PP  TT      TT  ZZ

```

```

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
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```

SPICSPSPCAINTIOEIOE

(2) 49
(3) 57
(4) 87

HISTORY ; Detailed Current Edit History
DECLARATIONS
LIB\$AB_CVTPT_Z

LIBSAB_CVTPT_Z
1-002

Packed to Zoned Translation Table^{D 4} 15-SEP-1984 23:52:54 VAX/VMS Macro V04-00 Page 2
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:04:59 [LIBRTL.SRC]LIBCVTPTZ.MAR;1 (2)

0000 49 .SBTTL HISTORY ; Detailed Current Edit History
0000 50
0000 51
0000 52 ; Edit History for Version 1 of LIBCVTPTZ
0000 53 :
0000 54 : 1-001 - Original. RKR 19-Feb-1980
0000 55 ; 1-002 - Modified copyright date to reflect 1981 release. RKR 6-JAN-81

```
0000 57 .SBTTL DECLARATIONS
0000 58
0000 59 :
0000 60 : INCLUDE FILES:
0000 61 :
0000 62 :
0000 63 :
0000 64 : EXTERNAL SYMBOLS:
0000 65 : NONE
0000 66 :
0000 67 :
0000 68 :
0000 69 : MACROS:
0000 70 : NONE
0000 71 :
0000 72 :
0000 73 :
0000 74 : PSECT DECLARATIONS:
0000 75 : .PSECT _LIB$CODE PIC, SHR, LONG, EXE, NOWRT
0000 76 :
0000 77 :
0000 78 : EQUATED SYMBOLS:
0000 79 : NONE
0000 80 :
0000 81 :
0000 82 :
0000 83 : OWN STORAGE:
0000 84 : NONE
0000 85 :
```

```

0000 87      .SBTTL LIB$AB_CVTPT_Z
0000 88
0000 89      :++
0000 90      : FUNCTIONAL DESCRIPTION:
0000 91
0000 92      :       This is the packed to zoned translation table.
0000 93
0000 94      :       It is used in conjunction with a CVTPT machine instruction to
0000 95      :       convert packed decimal data items to zoned numeric data type.  Given
0000 96      :       the binary representation for the highest addressed byte (that is, the
0000 97      :       least significant digit and sign) of a data item in the packed
0000 98      :       decimal data type, the table gives the hex representation of the
0000 99      :       highest addressed byte in the zoned numeric form of the data item.
0000 100     :--
0000 101
0000 102     LIB$AB_CVTPT_Z::
0000 103
30 30 30 30 30 30 30 30 0000 104     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : Hex
30 30 70 30 30 30 30 30 0008 105     .BYTE ^X30,^X30,^X30,^X70,^X30,^X70,^X30,^X30 : 00-07
30 30 30 30 30 30 30 30 0010 106     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 08-0F
31 31 71 31 71 31 30 30 0018 107     .BYTE ^X30,^X30,^X31,^X71,^X31,^X71,^X31,^X31 : 10-17
30 30 30 30 30 30 30 30 0020 108     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 18-1F
32 32 72 32 72 32 30 30 0028 109     .BYTE ^X30,^X30,^X32,^X72,^X32,^X72,^X32,^X32 : 20-27
30 30 30 30 30 30 30 30 0030 110     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 28-2F
33 33 73 33 73 33 30 30 0038 111     .BYTE ^X30,^X30,^X33,^X73,^X33,^X73,^X33,^X33 : 30-37
30 30 30 30 30 30 30 30 0040 112     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 38-3F
34 34 74 34 74 34 30 30 0048 113     .BYTE ^X30,^X30,^X34,^X74,^X34,^X74,^X34,^X34 : 40-47
30 30 30 30 30 30 30 30 0050 114     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 48-4F
35 35 75 35 75 35 30 30 0058 115     .BYTE ^X30,^X30,^X35,^X75,^X35,^X75,^X35,^X35 : 50-57
30 30 30 30 30 30 30 30 0060 116     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 58-5F
36 36 76 36 76 36 30 30 0068 117     .BYTE ^X30,^X30,^X36,^X76,^X36,^X76,^X36,^X36 : 60-67
30 30 30 30 30 30 30 30 0070 118     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 68-6F
37 37 77 37 77 37 30 30 0078 119     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 70-77
30 30 30 30 30 30 30 30 0080 120     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 78-7F
38 38 78 38 78 38 30 30 0088 121     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 80-87
30 30 30 30 30 30 30 30 0090 122     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 88-8F
39 39 79 39 79 39 30 30 0098 123     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 90-97
30 30 30 30 30 30 30 30 00A0 124     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : 98-9F
30 30 30 30 30 30 30 30 00A8 125     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : A0-A7
30 30 30 30 30 30 30 30 00B0 126     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : A8-BF
30 30 30 30 30 30 30 30 00B8 127     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : B0-B7
30 30 30 30 30 30 30 30 00C0 128     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : B8-BF
30 30 30 30 30 30 30 30 00C8 129     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : C0-C7
30 30 30 30 30 30 30 30 00D0 130     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : C8-CF
30 30 30 30 30 30 30 30 00D8 131     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : D0-D7
30 30 30 30 30 30 30 30 00E0 132     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : D8-DF
30 30 30 30 30 30 30 30 00E8 133     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : E0-E7
30 30 30 30 30 30 30 30 00F0 134     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : E8-EF
30 30 30 30 30 30 30 30 00F8 135     .BYTE ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30 : F0-F7
0100 136     :
0100 137     .END

```

LIBSAB_CVTPT_Z Packed to Zoned Translation Table^{G 4}
Symbol table

15-SEP-1984 23:52:54 VAX/VMS Macro V04-00 Page 5
6-SEP-1984 11:04:59 [LIBRTL.SRC]LIBCVTPTZ.MAR;1 (4)

LIBSAB_CVTPT_Z 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		
_LIB\$CODE	00000100 (256.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG		

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.06	00:00:02.55
Command processing	110	00:00:00.33	00:00:02.93
Pass 1	65	00:00:00.45	00:00:03.55
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	46	00:00:00.23	00:00:04.68
Symbol table output	1	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	255	00:00:01.11	00:00:13.74

The working set limit was 750 pages.
2663 bytes (6 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.
137 source lines were read in Pass 1, producing 8 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\$:LIBCVTPTZ/OBJ=OBJ\$:LIBCVTPTZ MSRC\$:LIBCVTPTZ/UPDATE=(ENH\$:LIBCVTPTZ)

