```
RRRRRRRRRRRR      PPPPPPPPPPPP          GGGGGGGGGGGG  RRRRRRRRRRRR      TTTTTTTTTTTTTTTT  LLL
RRRRRRRRRRRR      PPPPPPPPPPPP          GGGGGGGGGGGG  RRRRRRRRRRRR      TTTTTTTTTTTTTTTT  LLL
RRRRRRRRRRRR      PPPPPPPPPPPP          GGGGGGGGGGGG  RRRRRRRRRRRR      TTTTTTTTTTTTTTTT  LLL
RRR        RRR    PPP        PPP  GGG                 RRR        RRR         TTT           LLL
RRR        RRR    PPP        PPP  GGG                 RRR        RRR         TTT           LLL
RRR        RRR    PPP        PPP  GGG                 RRR        RRR         TTT           LLL
RRR        RRR    PPP        PPP  GGG                 RRR        RRR         TTT           LLL
RRR        RRR    PPP        PPP  GGG                 RRR        RRR         TTT           LLL
RRR        RRR    PPP        PPP  GGG                 RRR        RRR         TTT           LLL
RRRRRRRRRRRR      PPPPPPPPPPPP    GGG                 RRRRRRRRRRRR              TTT           LLL
RRRRRRRRRRRR      PPPPPPPPPPPP    GGG                 RRRRRRRRRRRR              TTT           LLL
RRRRRRRRRRRR      PPPPPPPPPPPP    GGG                 RRRRRRRRRRRR              TTT           LLL
RRR    RRR        PPP            GGG    GGGGGGGGG     RRR    RRR              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           LLL
RRR           RRR PPP                 GGGGGGGGG       RRR           RRR      TTT           LLLLLLLLLLLLLLLL
RRR           RRR PPP                 GGGGGGGGG       RRR           RRR      TTT           LLLLLLLLLLLLLLLL
RRR           RRR PPP                 GGGGGGGGG       RRR           RRR      TTT           LLLLLLLLLLLLLLLL
```

```
RRRRRRR     PPPPPPPP      GGGGGGGG   CCCCCCCC  VV      VV  TTTTTTTTTT  PPPPPPPP    TTTTTTTTTT   000000
RRRRRRRR    PPPPPPPP      GGGGGGGG   CCCCCCCC  VV      VV  TTTTTTTTTT  PPPPPPPP    TTTTTTTTTT   000000
RR    RR    PP      PP    GG         CC         VV    VV       TT      PP      PP      TT      00      00
RR    RR    PP      PP    GG         CC         VV    VV       TT      PP      PP      TT      00      00
RR    RR    PP      PP    GG         CC         VV    VV       TT      PP      PP      TT      00      00
RR    RR    PP      PP    GG         CC          VV  VV        TT      PP      PP      TT      00      00
RRRRRRRR    PPPPPPPP      GG         CC          VV  VV        TT      PPPPPPPP        TT      00      00
RRRRRRRR    PPPPPPPP      GG         CC          VV  VV        TT      PPPPPPPP        TT      00      00
RR  RR      PP            GG  GGGGGG CC           VV VV        TT      PP              TT      00      00
RR   RR     PP            GG  GGGGGG CC           VV VV        TT      PP              TT      00      00
RR    RR    PP            GG     GG  CC            VVVV        TT      PP              TT      00      00
RR    RR    PP            GG     GG  CC            VV VV       TT      PP              TT      00      00
RR     RR   PP            GGGGGG     CCCCCCCC      VV          TT      PP              TT      000000
RR     RR   PP            GGGGGG     CCCCCCCC      VV          TT      PP              TT      000000


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
```

RPG$AB_CVTPT_O
1-002

D 11
Packed to Overpunch Translation Table   16-SEP-1984 02:11:08 VAX/VMS Macro V04-00   Page   1
                                           6-SEP-1984 11:40:53 [RPGRTL.SRC]RPGCVTPTO.MAR;1   (1)

```
0000     1              .TITLE  RPG$AB_CVTPT_O   Packed to Overpunch Translation Table
0000     2              .IDENT  /1-0027          ; File: RPGCVTPTO.MAR
0000     3
0000     4    ;
0000     5    ;*******************************************************************
0000     6    ;*                                                                 *
0000     7    ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                        *
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0000    16    ;*  TRANSFERRED.                                                    *
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0000    19    ;*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
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0000    21    ;*                                                                 *
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0000    23    ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.         *
0000    24    ;*                                                                 *
0000    25    ;*                                                                 *
0000    26    ;*******************************************************************
0000    27    ;
0000    28    ; FACILITY: RPG LIBRARY SUPPORT
0000    29    ;++
0000    30    ; ABSTRACT:
0000    31    ;       This module contains the translation table for packed to overpunch
0000    32    ;       conversion using the CVTPT instruction.
0000    33    ;       This module is the same as LIB$AB_CVTPT_O except that it produces
0000    34    ;       the alternate format of 0-9 for the positive value.
0000    35    ;       Specifically the following entries were changed from LIB$AB_CVTPT_O:
0000    36    ;
0000    37    ;                       all ^X7B -> ^X30
0000    38    ;                       all ^X41 -> ^X31
0000    39    ;                       all ^X42 -> ^X32
0000    40    ;                       all ^X43 -> ^X33
0000    41    ;                       all ^X44 -> ^X34
0000    42    ;                       all ^X45 -> ^X35
0000    43    ;                       all ^X46 -> ^X36
0000    44    ;                       all ^X47 -> ^X37
0000    45    ;                       all ^X48 -> ^X38
0000    46    ;                       all ^X49 -> ^X39
0000    47    ;
0000    48    ;
0000    49    ;--
0000    50    ;
0000    51    ; VERSION: 1
0000    52    ;
0000    53    ; HISTORY:
0000    54    ;
0000    55    ; AUTHOR:
0000    56    ;       Leo Treggiari, 3-Mar-1983
0000    57    ;
```

RPG$AB_CVTPT_O
1-002

E 11
Packed to Overpunch Translation Table   16-SEP-1984 02:11:08   VAX/VMS Macro V04-00   Page 2
                                            6-SEP-1984 11:40:53   [RPGRTL.SRC]RPGCVTPTO.MAR;1   (1)

                        0000   58 ; MODIFIED BY:
                        0000   59 ;
                        0000   60 ;

RPG$AB_CVTPT_0
1-002

F 11
Packed to Overpunch Translation Table   16-SEP-1984 02:11:08   VAX/VMS Macro V04-00   Page   3
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:40:53   [RPGRTL.SRL]RPGCVTPTO.MAR;1   (2)

```
0000    62          .SBTTL  HISTORY          ; Detailed Current Edit History
0000    63
0000    64
0000    65 ; Edit History for Version 1 of RPGCVTPTO
0000    66 ;
0000    67 ; 1-001 Original.                                              LPT 4-Mar-1983
0000    68 ; 1-002 - Reference _RPG$CODE psect.                           DG 11-July-1983
```

RPGSAB_CVTPT_O
1-002

G 11
Packed to Overpunch Translation Table   16-SEP-1984 02:11:08 VAX/VMS Macro V04-00   Page 4
DECLARATIONS   6-SEP-1984 11:40:53 [RPGRTL.SRC]RPGCVTPTO.MAR;1   (3)

```
          0000      70              .SBTTL  DECLARATIONS
          0000      71
          0000      72 ;
          0000      73 ; INCLUDE FILES:
          0000      74 ;
          0000      75
          0000      76 ;
          0000      77 ; EXTERNAL SYMBOLS:
          0000      78 ;       NONE
          0000      79 ;
          0000      80
          0000      81 ;
          0000      82 ; MACROS:
          0000      83 ;       NONE
          0000      84 ;
          0000      85
          0000      86 ;
          0000      87 ; PSECT DECLARATIONS:
      00000000      88         .PSECT  _RPG$CODE       PIC, SHR, LONG, EXE, NOWRT
          0000      89
          0000      90 ;
          0000      91 ; EQUATED SYMBOLS:
          0000      92 ;       NONE
          0000      93 ;
          0000      94
          0000      95 ;
          0000      96 ; OWN STORAGE:
          0000      97 ;       NONE
          0000      98 ;
```

```
                              0000   100              .SBTTL   RPG$AB_CVTPT_O
                              0000   101
                              0000   102   ;++
                              0000   103   ; FUNCTIONAL DESCRIPTION:
                              0000   104   ;
                              0000   105   ;        This is the packed to overpunch translation table.
                              0000   106   ;
                              0000   107   ;--
                              0000   108
                              0000   109   RPG$AB_CVTPT_O::
30 30 30 30 30 30 30 30       0000   110              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 7D 30 7D 30 30 30       0008   111              .BYTE    ^X30,^X30,^X30,^X7D,^X30,^X7D,^X30,^X30
30 30 30 30 30 30 30 30       0010   112              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
31 31 4A 31 4A 31 30 30       0018   113              .BYTE    ^X30,^X30,^X31,^X4A,^X31,^X4A,^X31,^X31
30 30 30 30 30 30 30 30       0020   114              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
32 32 4B 32 4B 32 30 30       0028   115              .BYTE    ^X30,^X30,^X32,^X4B,^X32,^X4B,^X32,^X32
30 30 30 30 30 30 30 30       0030   116              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
33 33 4C 33 4C 33 30 30       0038   117              .BYTE    ^X30,^X30,^X33,^X4C,^X33,^X4C,^X33,^X33
30 30 30 30 30 30 30 30       C^40   118              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
34 34 4D 34 4D 34 30 30       0048   119              .BYTE    ^X30,^X30,^X34,^X4D,^X34,^X4D,^X34,^X34
30 30 30 30 30 30 30 30       0050   120              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
35 35 4E 35 4E 35 30 30       0058   121              .BYTE    ^X30,^X30,^X35,^X4E,^X35,^X4E,^X35,^X35
30 30 30 30 3^ 30 30 30       0060   122              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
36 36 4F 36 4F 36 30 30       0068   123              .BYTE    ^X30,^X30,^X36,^X4F,^X36,^X4F,^X36,^X36
30 30 30 30 30 30 30 30       0070   124              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
37 37 50 37 50 37 30 30       0078   125              .BYTE    ^X30,^X30,^X37,^X50,^X37,^X50,^X37,^X37
30 30 30 30 30 30 30 30       0080   126              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
38 38 51 38 51 38 30 30       0088   127              .BYTE    ^X30,^X30,^X38,^X51,^X38,^X51,^X38,^X38
30 30 30 30 30 30 30 30       0090   128              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
39 39 52 39 52 39 30 30       0098   129              .BYTE    ^X30,^X30,^X39,^X52,^X39,^X52,^X39,^X39
30 30 30 30 30 30 30 30       00A0   130              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00A8   131              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00B0   132              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00B8   133              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00C0   134              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00C8   135              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00D0   136              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00D8   137              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00E0   138              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00E8   139              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00F0   140              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
30 30 30 30 30 30 30 30       00F8   141              .BYTE    ^X30,^X30,^X30,^X30,^X30,^X30,^X30,^X30
                              0100   142   ;
                              0100   143              .END
```

RPG$AB_CVTPT_O   Packed to Overpunch Translation Table   16-SEP-1984 02:11:08   VAX/VMS Macro V04-00   Page 6
Symbol table   6-SEP-1984 11:40:53   [RPGRTL.SRC]RPGCVTPTO.MAR;1   (4)

RPG$AB_CVTPT_O   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
_RPG$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	11	00:00:00.09	00:00:00.97
Command processing	85	00:00:00.68	00:00:03.48
Pass 1	59	00:00:00.67	00:00:02.23
Symbol table sort	0	00:00:00.01	00:00:00.12
Pass 2	40	00:00:00.29	00:00:00.94
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.01	00:00:00.14
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	201	00:00:01.78	00:00:08.07

The working set limit was 750 pages.
2711 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.
143 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
_255DUA28:[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$:RPGCVTPTO/OBJ=OBJ$:RPGCVTPTO MSRC$:RPGCVTPTO/UPDATE=(ENH$:RPGCVTPTO)

RMS0TRUNC
LIS

STAPRFLNM
LIS

RPGCVTPTO
LIS

RPGHANDLE
LIS

RPGMOVE1
LIS

RPGLIB
REQ

RMSGBL
LIS

RPGRTL
LIS

RPGDSPLY
LIS

RPGRTL
MAP

RPGPROLOG
REQ

RPGEXTIND
LIS

RPGLIB
LIS

RMS0SRCH
LIS

RMS0WAIT
LIS

RMS0
LIS

RPGBTZ
LIS

RPGMOVE2
LIS

RPGDIVIDE
LIS

RPGIOEXCE
LIS

RPGDEF
REQ

RMS0UPDAT
LIS

RPGERROR
LIS