ZIP_FORMAT Conversion

ZIP_FORMAT converts entered numbers into a valid US 5-digit or 9-digit zip code, or a valid Canadian Postal Code format. This can be extended to include other country codes. The code is included in OpenInsight, with the source in the **SYSPROCS** table in the **SYSPROG** account.

```
COMPILE SUBROUTINE ZIP_FORMAT(CHARSTR CONV, CHARSTR ANS, CHARSTR BRANCH, CHARSTR RETURN_DATA)
*
*   ZIP_FORMAT is an example of a developer's custom prompt formatting
*   routine using the square brackets call.
*
*   It should be placed in square brackets, like this:
*
*                   [ZIP_FORMAT]
*
* This subroutine properly formats any reasonable string of numbers and characters
* into a consistent US Zip or Canadian Postal Code format.
*
*  Subroutine declarations
DECLARE FUNCTION MSG
*  Local Equates
*  The STATUS() variable is used to indicated the error condition of the
*  pattern. They are:
EQU VALID$         TO 0    ;* Successful
EQU INVALID_MSG$   TO 1    ;* Bad Data       -   Print error message window
EQU INVALID_CONV$  TO 2    ;* Bad Conversion -          "         "
EQU INVALID_NOMSG$ TO 3    ;* Bad but do not print the error message window
*  Begin Conversion
*
BEGIN CONDITION
PRE:
POST:
END CONDITION

  RETURN_DATA = ""
  IF ANS NE "" THEN
    ZIP = ANS
    ANS = ""
    STATUS() = VALID$
    CONVERT " -" TO "" IN ZIP
    LENGTH = LEN( ZIP )
    * A case statement is used to validate all possible types of Postal Codes.
    * If a new format is required, simply add another case.
    * The fall-through (CASE 1) traps invalid conversions.
    BEGIN CASE
      CASE LENGTH = 5 AND NUM( ZIP )
        * standard five digit US zip code.
        RETURN_DATA = ZIP
      CASE LENGTH = 9 AND NUM( ZIP )
        * standard nine digit US zip code.
        IF CONV = "OCONV" THEN
          RETURN_DATA = FMT( ZIP, "L#####-####" )
        END ELSE
          RETURN_DATA = ZIP
        END
      CASE LENGTH = 6 AND  ZIP MATCHES "1A1N1A1N1A1N"
        * Canadian-style Postal Code.
        IF CONV = "OCONV" THEN
          RETURN_DATA = FMT( ZIP, "L### ###" )
        END ELSE
          RETURN_DATA = ZIP
        END
      CASE 1
        * No pattern matches met.  If called from an input pattern, display
        * error message.
        IF CONV = "ICONV" THEN
            RESP = MSG( '', ZIP:" is not a valid Zip code. Please enter a five or nine digit number in any
format, or a Canadian-style Postal Code." )
        END
        STATUS() = INVALID_NOMSG$
    END CASE
  END
  RETURN
*
* Source Date: 17:02:51  23 APR 1993  Build ID: OI*1.0.144  Level: 2.0
```